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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT FORMER WEST ASH POND F.B. CULLEY GENERATING STATION WARRICK COUNTY, INDIANA

by
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for
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Evansville, Indiana

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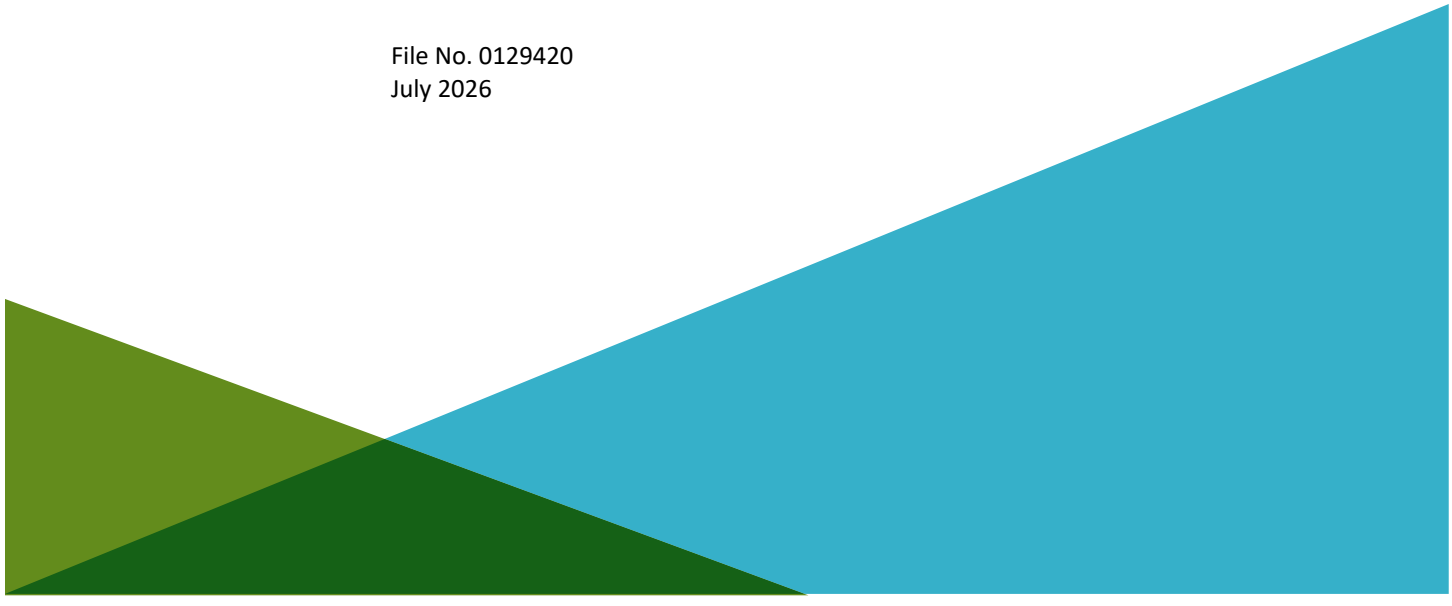

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1. Annual Groundwater Monitoring Report Summary

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 [Coal Combustion Residuals] unit. At a minimum, the summary must specify all of the following:

1.1.1 40 CFR § 257.90(e)(6)(i) – Status of Monitoring Program at Start of Reporting Period

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, the F.B. Culley Generating Station (FBC), former West Ash Pond (WAP) was operating under an assessment monitoring program in compliance with the Code of Federal Regulations Title 40 (40 CFR) § 257.95.

1.1.2 40 CFR § 257.90(e)(6)(ii) – Status of Monitoring Program at End of Reporting Period

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, the former WAP was operating under an assessment monitoring program in compliance with 40 CFR § 257.95.

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

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

1.1.3.1 40 CFR § 257.90(e)(6)(iii)(A)

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

The former WAP is operating under an assessment monitoring program; therefore, no statistical evaluations were conducted on Appendix III constituents in 2025 and 2026.

1.1.3.2 40 CFR § 257.90(e)(6)(iii)(B)

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

An assessment monitoring program was established on February 7, 2020, for the former WAP to meet the requirements of 40 CFR § 257.95. The former WAP remained in assessment monitoring during 2025 and 2026.

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;

Statistical analysis of Appendix IV constituents collected during the May 2025 sampling event was completed on September 17, 2025, within 90 days following the receipt of laboratory analytical results on July 9, 2025, per the requirements of 40 CFR § 257.93(h)(2). Statistically significant levels (SSLs) of lithium were identified in monitoring well WAP-3S downgradient of the former WAP, and molybdenum in downgradient wells WAP-3S and WAP-4S. A summary of the statistical analysis is provided in Appendix A.

Statistical analysis of Appendix IV constituents collected during the November 2025 sampling event was completed on February 23, 2026, within 90 days following the receipt of laboratory analytical results on December 22, 2025, per the requirements of 40 CFR § 257.93(h)(2). SSLs of lithium were identified in monitoring well WAP-3S downgradient of the former WAP and molybdenum in downgradient wells WAP-3S and WAP-4S. A summary of the statistical analysis is provided in Appendix A.

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;

Assessment of corrective measures was initiated on October 30, 2020.

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

The public meeting has not been held for the assessment of corrective measures for the former WAP. Evaluation of site-specific aspects, such as the off-site evaluation of the nature and extent of affected groundwater, are necessary to prepare for the public meeting and to inform the selection of remedy are in progress and explained in further detail in Section 1.3.2 Key Actions Completed.

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

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

The assessment of corrective measures was completed on February 26, 2021, and placed into the facility's Operating Record, then subsequently posted to the publicly available website, and the notification sent to the state agency.

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 selection of remedy required under 40 CFR § 257.97 is ongoing during 2025 and 2026 for lithium and molybdenum at the former WAP.

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

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

No remedial activities have been initiated during 2025 and 2026; therefore, no demonstration or certification is applicable for this unit.

1.2 40 CFR § 257.90(a)

Except as provided for in § 257.100 for inactive CCR surface impoundments, all CCR landfills, CCR surface impoundments, and lateral expansions of CCR units are subject to the groundwater monitoring and corrective action requirements under § 257.90 through § 257.98.

The former WAP is subject to the groundwater monitoring and corrective action requirements described under 40 CFR § 257.90 through § 257.98 (Rule). The former WAP, located at FBC, was previously classified as an inactive surface impoundment as defined by 40 CFR § 257.53. The Southern Indiana Gas and Electric Company (SIGECO) filed a Notice of Intent (NOI) to initiate the closure of the former WAP and placed the NOI in the facility's Operating Record on December 17, 2015.

However, on August 5, 2016, the United States Environmental Protection Agency issued a "Direct Final Rule," effective on October 4, 2016, constituting a vacatur of 40 CFR § 257.100. The Direct Final Rule applies the requirements of existing surface impoundments that had been previously declared inactive. As a result, the former WAP had to comply with the groundwater monitoring requirements for existing CCR surface impoundments. The CCR Rule changes extended the deadlines to comply with the groundwater monitoring and corrective action requirements. The initial annual groundwater monitoring and corrective action report was required to be placed in the facility's Operating Record by August 1, 2019, and annually thereafter.

SIGECO continued to pursue closure of the former WAP while complying with the requirements described in 40 CFR § 257.90 through § 257.98. The Indiana Department of Environmental Management (IDEM) issued their approval of the Closure/Post-Closure Plan in December 2019, and closure activities were completed in December 2020. As part of IDEM's approval, IDEM requested that additional wells be installed for post-closure monitoring. The groundwater monitoring network for the former WAP is shown on Figure 1.

This document addresses the requirement for the Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report (Annual Report) per 40 CFR § 257.90(e).

1.3 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).***

As required by 40 CFR §257.100(e)(5)(ii), this Annual Report will be completed no later than August 1, 2026, due to the partial vacatur ordered by the District of Columbia Circuit Court on June 14, 2016, and the subsequent Direct Final Rule effective October 4, 2016, and within one year of the previous annual report being placed into the facility's Operating Record. As required, this Annual Report documents the status of the groundwater monitoring and corrective action program for the former WAP at FBC and summarizes key actions completed through the current reporting period.

1.3.1 Status of the Groundwater Monitoring Program

As provided in the notification on July 12, 2019, statistically significant increases of Appendix III constituents were identified downgradient of the former WAP. An evaluation of alternate sources was conducted; however, a successful alternate source demonstration was not achieved at that time. As a result, an Assessment Monitoring Program was initiated as required by 40 CFR § 257.94(e)(2). Annual and semiannual groundwater samples were collected as outlined in 40 CFR § 257.95(b) and § 257.95(d)(1), and groundwater protection standards (GWPS) were established as required by 40 CFR § 257.95(d)(2). Statistical analysis was completed on July 2, 2020, as described in 40 CFR § 257.93(h)(2), and SSLs of Appendix IV constituents above GWPS (lithium and molybdenum) were identified downgradient of the former WAP. As a result, an assessment of corrective measures was initiated as required by 40 CFR § 257.96. A 60-day extension to complete the assessment of corrective measures was required and certified by a professional engineer as required by 40 CFR § 257.96(a). Baseline sampling for downgradient wells installed to comply with IDEM approval of the Closure/Post-Closure Plan began in December 2020 and was completed in November 2021. Semiannual assessment monitoring is ongoing.

Groundwater monitoring well location and construction details for the existing monitoring well network are summarized in Table 1. During the 2024 to 2025 reporting period, laboratory analytical results for radium isotopes sampled during the May 2025 sampling event were received on July 9, 2025. Therefore, the results were not included in the 2024 to 2025 Annual Report but are included in Tables 2 through 4

of this report, as appropriate. Groundwater samples were collected during this reporting period at the former WAP from November 11 to 13, 2025, and again from May 27 to June 9, 2026. Field forms pertaining to May 2025, November 2025, and May 2026 sampling events are included in Appendix B and laboratory analytical reports are included in Appendix C.

Statistical analysis of Appendix IV constituents during the 2025 to 2026 reporting period determined that SSLs of lithium and molybdenum continue to be observed downgradient of the former WAP, which is consistent with previous findings. The selection of remedy process required under 40 CFR § 257.97 was still ongoing, as discussed in Section 1.1.5, during the reporting period.

1.3.2 Key Actions Completed

The following key actions were completed during the 2025 to 2026 reporting period (from July 1, 2025 through June 30, 2026):

- July 31, 2025 – Preparation of the 2024 to 2025 Annual Report including the following activities:
  - The 2024 to 2025 Annual Report was placed in the facility's Operating Record pursuant to 40 CFR § 257.105(h)(1);
  - Pursuant to 40 CFR § 257.107(h)(1), the 2024 to 2025 Annual Report was posted to the CCR Website within 30 days of the 2024 to 2025 Annual Report being placed in the facility's Operating Record [40 CFR § 257.107(d) and 40 CFR § 257.107(h)(1)]; and
  - Pursuant to 40 CFR § 257.106(h)(1), the notification was sent to the relevant State Director and/or Tribal authority within 30 days of the 2024 to 2025 Annual Report being placed in the facility's Operating Record [§ 257.106(d)].
- September 17, 2025 – Completed statistical analysis of May 2025 assessment monitoring laboratory analytical results received on July 9, 2025 (Appendix A).
- November 11 to 13, 2025 – Collected groundwater samples from monitoring wells at the former WAP for laboratory analysis in accordance with 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1). Groundwater elevations were measured in a synoptic round prior to sampling in accordance with 40 CFR § 257.93(c). Figure 2 presents a groundwater configuration map showing the November 2025 groundwater direction and velocity.
- February 23, 2026 – Completed statistical analysis of November 2025 assessment monitoring laboratory analytical results received on December 22, 2025 (Appendix A).
- May 27 to June 9, 2026 – Collected groundwater samples from monitoring wells at the former WAP for laboratory analysis in accordance with 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1). Groundwater elevations were measured in a synoptic round prior to sampling in accordance with 40 CFR § 257.93(c). Figure 3 presents a groundwater configuration map showing the May 2026 groundwater direction and velocity.
- June 5, 2026 – Submitted an Additional Characterization Work Plan to the Indiana Department of Environmental Management (IDEM) for approval to conduct additional explorations within the site boundary to further characterize the Site and complete nature and extent investigations to support progression into corrective measures and selection of an appropriate remedy.
- Continued evaluation of the nature and extent of Appendix IV SSLs as required by 40 CFR § 257.95(g)(1). SIGECO continued development of a groundwater fate and transport model to

support nature and extent evaluation as access to off-site areas of interest has not been authorized.

1.3.3 Problems Encountered

Problems were encountered during the May 2025 sampling event where a subset of samples collected were delayed in shipment by the carrier resulting in samples arriving out of temperature preservation at the laboratory. Re-sampling was completed in late May 2025, and the resulting laboratory analytical data was not available during the 2024 to 2025 reporting period and as such has been included in this annual report. The following May 2025 monitoring locations were resampled:

- WAP-2RR
- WAP-3S
- WAP-3D
- WAP-7S
- WAP-7D
- WAP-8I
- WAP-8D

Additional problems were encountered during the May 2026 sampling event which resulted in a delayed start and completion time of the sampling event. Logistical issues delayed the start of sampling to May 27, 2026, and issues encountered during sampling (e.g., mechanical failures with dedicated pumps) resulted in a second mobilization to complete sampling from June 8 to 9, 2026. Due to the delays, the laboratory analytical results from the May 2026 sampling event were not yet available during this reporting period and will be included in the subsequent 2026 to 2027 annual report.

1.3.4 Actions to Resolve Problems

Due to problems encountered during the May 2025 sampling event described in the 2024 to 2025 Annual Report and in Section 1.3.3 above, laboratory analytical results were not available to be previously reported. The May 2025 re-sampling laboratory analytical results are provided in this 2025 to 2026 Annual Report (Table 2, Table 3, and Table 4) along with field forms (Appendix B) and laboratory analytical reports (Appendix C).

Problems encountered due to the delay of the May 2026 sampling event included data not being received and validated in time for inclusion in this annual report. As a result, the May 2026 laboratory analytical data will be included in the subsequent 2026 to 2027 annual report.

1.3.5 Project Key Activities for Upcoming Year

Key activities planned to be completed through June 2027 include the following:

- Implement the Additional Characterization Work Plan after IDEM approval is received.
- Further define the nature and extent of lithium and molybdenum in groundwater downgradient of the former WAP using results from the Additional Characterization Work Plan.
- Continue semiannual groundwater monitoring in accordance with 40 CFR § 257.95.
- Complete statistical analysis of the semiannual groundwater sampling results as required by 40 CFR § 257.93(h)(2).
- Prepare semiannual progress reports, as necessary, describing the progress in selecting and designing the remedy as outlined in 40 CFR § 257.97(a).

- Hold a public meeting at least 30 days prior to the selection of remedy with interested and affected parties in accordance with 40 CFR § 257.96(e) to discuss the results of the corrective measures assessment.
- As soon as feasible following the public meeting, select a remedy that, at a minimum, meets the standards outlined in 40 CFR § 257.97(b). As part of the selected remedy, SIGECO will develop a schedule for implementing and completing remedial activities as defined in 40 CFR § 257.97(d) and develop a Corrective Action Groundwater Monitoring Program per 40 CFR § 257.98(a)(1).

1.4 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:

1.4.1 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 40 CFR § 257.90(e)(1), a map showing the location of the former WAP, associated upgradient and downgradient wells installed to comply with the CCR Rule, wells installed to assess the nature and extent of Appendix IV SSLs, and monitoring wells required by IDEM as part of the agency's approval of the Closure/Post-Closure Plan are presented on Figure 1. A groundwater flow map for the November 2025 sampling event is included as Figure 2 and for the May 2026 sampling event as Figure 3.

1.4.2 40 CFR § 257.90(e)(2)

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

No monitoring wells were installed or decommissioned during the preceding year. Location and construction details of the existing monitoring well network for the former WAP are provided for reference in Table 1.

1.4.3 40 CFR § 257.90(e)(3)

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 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1), two independent samples from each background and downgradient monitoring well were collected and analyzed for the CCR monitoring well network (WAP-1, CCR-AP-7, WAP-2RR, WAP-3S, WAP-4S, and WAP-5S) under the assessment monitoring program.

Summary tables including the sample names, dates of sample collection, reason for sample collection (detection, assessment, or baseline), and monitoring data obtained for the groundwater monitoring program for the former WAP are presented in Tables 2, 3, and 4 of this 2025 to 2026 Annual Report. Table 2 summarizes the assessment monitoring results for the original CCR monitoring network. Table 3 provides the results obtained to characterize the nature and extent of Appendix IV SSLs, and Table 4 includes the state-required baseline and detection sampling results at monitoring locations required by IDEM. Field sampling and groundwater gauging forms are provided in Appendix B, and laboratory analytical data reports for the May 2025 and November 2025 sampling events are provided in Appendix C of this report. Laboratory analytical reports and analytical data tables for the May 2026 sampling event will be provided in the 2026 to 2027 Annual Report.

1.4.4 40 CFR § 257.90(e)(4)

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

Statistical analysis was completed on September 17, 2025, for the May 2025 sampling event and on February 23, 2026, for the November 2025 sampling event, as described in 40 CFR § 257.93(h)(2). SSLs of lithium and molybdenum continue to be observed downgradient of the former WAP, consistent with previous results. As a result, the monitoring program did not change and the former WAP remained in assessment monitoring.

1.4.5 40 CFR § 257.90(e)(5)

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

Other information, including the development of groundwater protection standards, recording groundwater monitoring results in the Operating Record, and an evaluation of alternate sources was included in previous annual reports.

TABLES

TABLE 1

GROUNDWATER MONITORING WELL LOCATION AND CONSTRUCTION DETAILS

FORMER WEST ASH POND - F.B. CULLEY GENERATING STATION

WARRICK COUNTY, INDIANA

Well ID	Easting	Northing	Top of Pad Elevation (ft NAVD88)	Top of Casing Elevation (ft NAVD88)	Surface Grout (ft bgs)	Bentonite (ft bgs)	Sand Pack (ft bgs)	Screen Zone (ft bgs)	Screen Length (ft)	Well Diameter (in)
Background Wells										
WAP-1	2882824.18	971214.16	403.70	403.42	0 - 22	22 - 24	24 - 36	26 - 36	10	2
CCR-AP-7	2883090.62	970774.82	432.70	432.41	0 - 16	16 - 18	18 - 30	20 - 30	10	2
Downgradient Wells										
(CCR Monitoring Network)										
WAP-2RR	2881499.12	971367.36	391.20	390.85	0 - 42.5	42 - 44.5	44.5 - 56	46 - 56	10	2
WAP-3S	2881252.74	970978.21	388.00	387.51	0 - 55	55 - 57	57 - 70	60 - 70	10	2
WAP-4S	2881333.44	970405.61	384.40	384.19	0 - 31	31 - 33	33 - 45	35 - 45	10	2
WAP-5S	2881521.50	970235.99	384.60	384.26	0 - 26	26 - 28	28 - 40	30 - 40	10	2
(Assessment of Nature & Extent)										
WAP-3D	2881253.27	970975.00	388.00	387.56	0 - 65.5	65.5 - 68	68 - 82.5	72.5 - 82.5	10	2
WAP-4I	2881329.18	970409.03	384.40	384.11	0 - 71	71- 73	73 - 85	65 - 75	10	2
WAP-4D	2881325.46	970412.34	384.30	384.13	0 - 112	112 - 114	114 - 126	106 - 116	10	2
WAP-5I	2881524.86	970232.71	384.60	384.26	0 - 71	71 - 73	73 - 85	65 - 75	10	2
WAP-5D	2881528.86	970299.98	384.60	384.28	0 - 109	109 - 111	111 - 123	103 - 113	10	2
WAP-9S	2881066.97	970697.87	392.80	392.56	0 - 51	51 - 53	53 - 65	55 - 65	10	2
WAP-9I	2881069.92	970702.05	392.80	392.68	0 - 76	76 - 78	78 - 90	80 - 90	10	2
WAP-9D	2881063.93	970693.08	392.80	392.48	0 - 112.5	112.5 - 114.5	114.5 - 126.5	116.5 - 126.5	10	2
(IDEM Approval of Closure/Post-Closure Plan)										
WAP-6S	2881090.90	970688.34	385.90	385.44	0 - 36	36 - 38	38 - 50	40 - 50	10	2
WAP-6I	2881088.36	970683.39	385.70	385.43	0 - 65.5	65.5 - 67.5	67.5 - 80	70 - 80	10	2
WAP-6D	2881092.66	970693.03	385.80	385.37	0 - 101	101 - 103	103 - 117	105.5 - 115.5	10	2
WAP-7S	2881365.37	971161.46	388.90	388.52	0 - 45	45 - 47	47 - 60	50 - 60	10	2
WAP-7D	2881363.50	971158.04	389.10	388.81	0 - 64	64 - 66	66 - 80	68.5 - 78.6	10	2
WAP-8S	2881309.60	970636.56	384.30	384.16	0 - 35	35 - 37.5	37.5 - 50	40 - 50	10	2
WAP-8I	2881317.73	970629.97	384.50	384.29	0 - 65.5	65.5 - 67.5	67.5 - 80	70 - 80	10	2
WAP-8D	2881313.46	970633.68	384.40	384.12	0 - 92.5	92.5 - 94.5	94.5 - 107	97 - 107	10	2

NOTES:

bgs = below ground surface

ft = feet

in = inches

NAVD88 = Datum of Elevations in North American Vertical Datum of 1988

TABLE 2
SUMMARY OF GROUNDWATER QUALITY DATA FROM THE ORIGINAL
CCR MONITORING NETWORK
FORMER WEST ASH POND - F.B. CULLEY GENERATING STATION
WARRICK COUNTY, INDIANA

Location Group	Criteria	Background		Down-Gradient					
Location Name		CCR-AP-7	WAP-1	WAP-2RR	WAP-2RR	WAP-3S	WAP-3S	WAP-4S	WAP-5S
Sample Name		CCR-AP-7-111325	WAP-1-111325	WAP-2RR-053025	WAP-2RR-111225	WAP-3S-053025	WAP-3S-111225	WAP-4S-111125	WAP-5S-111125
Sample Date	GWPS	11/13/2025	11/13/2025	05/30/2025	11/12/2025	05/30/2025	11/12/2025	11/11/2025	11/11/2025
Lab Sample ID		180-198516-22	180-198516-1	180-191166-1	180-198516-2	180-191166-2	180-198516-3	180-198516-5	180-198516-8
Detection Monitoring - EPA Appendix III Constituents (mg/L)									
Boron, Total	4	0.05 U	**0.11 J+**	**2.5**	**2.1**	**2.8**	**4.5**	**11**	**5.8**
Calcium, Total	NA	**130**	**220**	**110**	**100**	**110**	**160**	**240**	**230**
Chloride	NA	**43**	**91**	**40 J-**	**38**	**47 J-**	**65**	**82**	**55**
Fluoride	4	**0.29**	**0.18**	**0.25 J+**	**0.28**	**0.38 J+**	**0.37**	**0.22**	**0.1**
pH (lab) (pH units)	NA	**7.2 J**	**7.2 J**	**6.7 J**	**6.9 J**	**7.8 J**	**7.8 J**	**7.5 J**	**6.9 J**
Sulfate	NA	**93**	**400**	**110 J-**	**110**	**190 J-**	**330**	**330**	**520**
Total Dissolved Solids (TDS)	NA	**620**	**1100**	**530**	**530**	**550**	**820**	**1000**	**1200**
Assessment Monitoring - EPA Appendix IV Constituents (mg/L)									
Antimony, Total	0.006	0.002 U	**0.0055**	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Arsenic, Total	0.025	**0.0048 J**	**0.011**	**0.0013 J**	**0.0013 J**	**0.00095 J**	**0.00084 J**	**0.0076**	**0.0021 J**
Barium, Total	2	**0.13**	**0.64**	**0.029**	**0.044**	**0.045**	**0.062**	**0.048**	**0.047**
Beryllium, Total	0.004	0.001 U	**0.0011**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium, Total	0.005	**0.00016 J**	**0.00076 J**	**0.00037 J**	**0.00024 J**	**0.000093 J**	0.001 U	0.001 U	0.001 U
Chromium, Total	0.1	0.005 U	**0.024**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt, Total	0.019	0.001 U	**0.014**	**0.0014**	**0.00082 J**	**0.00089 J**	**0.00094 J**	**0.0013**	**0.0072**
Fluoride	4	**0.29**	**0.18**	**0.25 J+**	**0.28**	**0.38 J+**	**0.37**	**0.22**	**0.1**
Lead, Total	0.035	**0.00054 J**	**0.029**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Lithium, Total	0.04	**0.0093**	**0.019**	**0.02**	**0.017**	**0.1**	**0.13**	0.008 U	0.008 U
Mercury, Total	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum, Total	0.1	**0.0015 J**	**0.0026 J**	**0.079**	**0.061**	**0.4**	**0.39**	**0.51**	0.005 U
Selenium, Total	0.05	**0.0012 J**	**0.0033 J**	**0.0039 J**	**0.006**	0.005 U	0.005 U	0.005 U	0.005 U
Thallium, Total	0.002	**0.00052 J**	**0.0014**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Radiological (pCi/L)									
Radium-226	NA	0.132 U ± 0.178	0.11 U ± 0.285	0.154 U ± 0.109	0.176 U ± 0.144	**0.209 ± 0.117**	**0.481 ± 0.198**	0.0933 U ± 0.156	**0.341 ± 0.217**
Radium-228	NA	**0.796 ± 0.504**	0.527 UJ ± 1.02	0.642 U ± 0.46	0.49 UJ ± 0.485	**0.808 J ± 0.455**	0.607 UJ ± 0.462	0.667 UJ ± 0.549	0.201 UJ ± 0.548
Radium-226 & 228	5	**0.928 J ± 0.535**	0.637 U ± 1.06	**0.796 ± 0.473**	0.666 U ± 0.506	**1.02 ± 0.47**	**1.09 J ± 0.503**	0.761 U ± 0.571	0.542 UJ ± 0.589
Field Parameters									
Temperature (Deg C)	NA	**18.85**	**19.33**	**19.51**	**24.06**	**19.81**	**17.95**	**16.62**	**17.06**
Dissolved Oxygen, Field (mg/L)	NA	**0.94**	**11.31**	**0.32**	**0.23**	**0.37**	**0.39**	**1.15**	**1**
Conductivity, Field (mS/cm)	NA	**0.744**	**1.08**	**0.824**	**0.565**	**0.8**	**0.87**	**1.08**	**5.49**
Oxidation Reduction Potential (ORP), Field (mv)	NA	**-118**	**-63**	**328**	**132**	**73**	**-90**	**-111**	**60**
Turbidity, Field (NTU)	NA	**0**	**434**	**0**	**0**	**1.1**	**0**	**0.5**	**0**
pH, Field (pH units)	NA	**6.59**	**6.53**	**6.88**	**6.5**	**8.31**	**7.47**	**7.14**	**5.83**

Abbreviations and Notes:

CCR: Coal Combustion Residuals.
mg/L: milligram per liter.
mS/cm: millSiemen per centimeter.
mv: millivolts.
NTU: Nephelometric Turbidity Units.
pCi/L: picoCurie per liter.
GWPS: Groundwater Protection Standard.
MCL: Maximum Contaminant Level.
RSL: Regional Screening Level.
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Results in bold are detected.

- EPA. 2020. Final Rule: Disposal of Coal Combustion Residuals from Electric Utilities. July 26. 40 CFR Part 257. https://www.epa.gov/coalash/coal-ash-rule
- GWPS is the maximum of the MCL or RSL where no MCL is available or the Upper Tolerance Limit.

Qualifiers:

J: value is estimated
J+: value is estimated with a potential high bias
J-: value is estimated with a potential low bias
U: not detected, value is the laboratory reporting limit
U: activity level below the Minimum Detectable Concentration (Radiological)

TABLE 3
SUMMARY OF GROUNDWATER QUALITY DATA FOR MONITORING WELLS
INSTALLED TO ASSESS THE NATURE AND EXTENT OF APPENDIX IV
FORMER WEST ASH POND - F.B. CULLEY GENERATING STATION
WARRICK COUNTY, INDIANA

Location Group	Criteria	Assessment of Nature & Extent									
Location Name		WAP-3D	WAP-3D	WAP-3D	WAP-4D	WAP-4I	WAP-5D	WAP-5I	WAP-9D	WAP-9I	WAP-9S
Sample Name		WAP-3D-053025	WAP-3D-111225	DUP-2-111225	WAP-4D-111125	WAP-4I-111125	WAP-5D-111125	WAP-5I-111125	WAP-9D-111325	WAP-9I-111325	WAP-9S-111325
Sample Date	GWPS	05/30/2025	11/12/2025	11/12/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/13/2025	11/13/2025	11/13/2025
Lab Sample ID		180-191166-3	180-198516-4	180-198516-24	180-198516-7	180-198516-6	180-198516-10	180-198516-9	180-198516-21	180-198516-20	180-198516-19
Detection Monitoring - EPA Appendix III Constituents (mg/L)											
Boron, Total	4	**3.2**	**4.1**	**4.6**	0.058 U	**0.075 J+**	0.05 U	0.074 U	0.069 U	0.055 U	**1.2**
Calcium, Total	NA	**140**	**190**	**190**	**47**	**42**	**51**	**42**	**40**	**42**	**73**
Chloride	NA	**53 J-**	**71**	**72**	**22**	**21**	**20**	**20**	**19**	**22**	**21**
Fluoride	4	**0.28 J+**	**0.31**	**0.33**	**0.14**	**0.15**	**0.13**	**0.15**	**0.15**	**0.16**	**0.46**
pH (lab) (pH units)	NA	**7.5 J**	**7.6 J**	**7.6 J**	**7.6 J**	**7.4 J**	**7.5 J**	**7.5 J**	**7.6 J**	**7.6 J**	**7.8 J**
Sulfate	NA	**290 J-**	**450**	**460**	**25**	**42**	**37**	**45**	**35**	**39**	**38**
Total Dissolved Solids (TDS) (mg/L)	NA	**720**	**1000**	**1000**	**220**	**200**	**230**	**220**	**220**	**220**	**350**
Assessment Monitoring - EPA Appendix IV Constituents (mg/L)											
Antimony, Total	0.006	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Arsenic, Total	0.025	0.005 U	0.005 U	0.005 U	**0.0087**	**0.0061**	**0.01**	**0.011**	**0.0063**	**0.0058**	**0.0011 J**
Barium, Total	2	**0.018**	**0.025 J+**	**0.024 J+**	**0.28**	**0.17**	**0.22**	**0.11**	**0.14**	**0.19**	**0.11**
Beryllium, Total	0.004	0.001 U	0.001 U	0.001 U	0.001 U	**0.00028 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium, Total	0.005	**0.00016 J**	**0.00056 J**	**0.0005 J**	0.001 U	**0.00021 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chromium, Total	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt, Total	0.019	**0.001**	**0.0015**	**0.0014**	**0.00015 J**	**0.00059 J**	0.001 U	**0.00043 J**	**0.00025 J**	0.001 U	**0.00049 J**
Lead, Total	0.035	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Lithium, Total	0.04	**0.094**	**0.11**	**0.1**	0.008 U	**0.0034 J**	0.008 U	0.008 U	0.008 U	0.008 U	**0.0059 J**
Mercury, Total	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum, Total	0.1	**0.27**	**0.27**	**0.26**	**0.0063**	**0.003 J**	**0.004 J**	**0.0018 J**	**0.0063**	**0.0029 J**	**0.099**
Selenium, Total	0.05	0.005 U	0.005 U	0.005 U	0.005 U	**0.0011 J**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Thallium, Total	0.002	0.001 U	0.001 U	0.001 U	0.001 U	**0.0006 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Radiological (pCi/L)											
Radium-226	NA	0.0463 U ± 0.0782	**0.279 ± 0.174**	0.268 U ± 0.235	**0.331 ± 0.188**	**0.206 ± 0.141**	**0.913 ± 0.267**	0.194 U ± 0.172	0.24 U ± 0.204	0.207 U ± 0.181	0.139 U ± 0.19
Radium-228	NA	**1.36 J ± 0.512**	0.45 UJ ± 0.479	**0.791 ± 0.477**	0.194 UJ ± 0.447	-0.293 UJ ± 0.294	0.0667 UJ ± 0.329	0.0813 UJ ± 0.442	0.609 U ± 0.438	**1.13 ± 0.549**	**1.01 ± 0.537**
Radium-226 & 228	5	**1.41 J ± 0.518**	0.729 UJ ± 0.51	**1.06 J ± 0.532**	0.524 UJ ± 0.485	0.206 UJ ± 0.326	**0.98 J ± 0.424**	0.275 U ± 0.474	**0.85 ± 0.483**	**1.33 J ± 0.578**	**1.14 J ± 0.57**
Field Parameters											
Temperature (Deg C)	NA	**19.47**	**18.29**	**18.29**	**17.96**	**18.58**	**17.01**	**18.19**	**19.74**	**18.23**	**18.86**
Dissolved Oxygen, Field (mg/L)	NA	**0.39**	**0.28**	**0.28**	**3.73**	**0.41**	**1.12**	**0.98**	**1.77**	**0.63**	**0.45**
Conductivity, Field (mS/cm)	NA	**1.03**	**1.04**	**1.04**	**0.319**	**0.294**	**1.13**	**1**	**0.28**	**0.274**	**0.434**
Oxidation Reduction Potential (ORP), Field (mv)	NA	**97**	**8**	**8**	**-185**	**-77**	**-89**	**-9**	**-143**	**-128**	**-82**
Turbidity, Field (NTU)	NA	**0**	**0**	**0**	**0**	**0**	**0**	**3.1**	**0**	**0**	**0**
pH, Field (pH units)	NA	**8.04**	**7.25**	**7.25**	**7.54**	**7.31**	**6.5**	**6.43**	**7.27**	**7.31**	**7.23**

Abbreviations and Notes:

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mg/L: milligram per liter.
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mv: millivolts.
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GWPS: Groundwater Protection Standard.
MCL: Maximum Contaminant Level.
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Results in bold are detected.

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- GWPS is the maximum of the MCL or RSL where no MCL is available or the Upper Tolerance Limit.

Qualifiers:

J: value is estimated
J+: value is estimated with a potential high bias
J-: value is estimated with a potential low bias
U: not detected, value is the laboratory reporting limit
U: activity level below the Minimum Detectable Concentration (Radiological)

TABLE 4
SUMMARY OF GROUNDWATER QUALITY DATA FOR MONITORING WELLS
INSTALLED TO COMPLY WITH IDEM APPROVAL OF CLOSURE/POST-CLOSURE PLAN
FORMER WEST ASH POND - F.B. CULLEY GENERATING STATION
WARRICK COUNTY, INDIANA

Location Group	Criteria	IDEM Closure / Post-Closure Plan												
Location Name		WAP-6D	WAP-6D	WAP-6I	WAP-6S	WAP-7D	WAP-7D	WAP-7S	WAP-7S	WAP-8D	WAP-8I	WAP-8I	WAP-8S	WAP-8S
Sample Name		WAP-6D-111125	DUP-1-111125	WAP-6I-111125	WAP-6S-111325	WAP-7D-053025	WAP-7D-111225	WAP-7S-053025	WAP-7S-111225	WAP-8D-111225	WAP-8I-053025	WAP-8I-111125	WAP-8S-053025	WAP-8S-111125
Sample Date	GWPS	11/11/2025	11/11/2025	11/11/2025	11/13/2025	05/30/2025	11/12/2025	05/30/2025	11/12/2025	11/12/2025	05/30/2025	11/11/2025	05/30/2025	11/11/2025
Lab Sample ID		180-198516-13	180-198516-23	180-198516-12	180-198516-11	180-191166-5	180-198516-15	180-191166-4	180-198516-14	180-198516-18	180-191166-7	180-198516-17	180-191166-6	180-198516-16
Detection Monitoring - EPA Appendix III Constituents (mg/L)														
Boron, Total	4	0.05 U	0.055 U	**0.075 J+**	**2**	**8.7**	**8.6**	**11**	**12**	**0.075 J+**	**0.11**	**0.087 J+**	**1.4**	**3.2**
Calcium, Total	NA	**42**	**42**	**40**	**100**	**320**	**320**	**160**	**210**	**40**	**43**	**42**	**94**	**170**
Chloride	NA	**21**	**21**	**19**	**31**	**99 J-**	**100**	**73 J-**	**80**	**21**	**28 J-**	**21**	**60 J-**	**89**
Fluoride	4	**0.15**	**0.15**	**0.14**	**0.38**	**0.33 J+**	**0.35**	**0.08 J+**	**0.11**	**0.17**	**0.2 J+**	**0.18**	**0.22 J+**	**0.17**
pH (lab) (pH units)	NA	**7.6 J**	**7.6 J**	**7.6 J**	**7.4 J**	**7.2 J**	**7.3 J**	**9.5 J**	**9.9 J**	**7.4 J**	**7.4 J**	**7.6 J**	**7.4 J**	**7.4 J**
Sulfate	NA	**39**	**40**	**36**	**120**	**910 J-**	**910**	**370 J-**	**480**	**44**	**64 J-**	**45**	**180 J-**	**410**
Total Dissolved Solids (TDS) (mg/L)	NA	**210**	**220**	**210**	**510**	**1800**	**1700**	**770**	**950**	**210**	**260**	**240**	**550**	**920**
Assessment Monitoring - EPA Appendix IV Constituents (mg/L)														
Antimony, Total	0.006	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	**0.00097 J**	**0.001 J**	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Arsenic, Total	0.025	**0.0058**	**0.0055**	**0.0053**	**0.0012 J**	**0.0016 J**	**0.0012 J**	**0.0062**	**0.0073**	**0.0036 J**	**0.0052**	**0.0035 J**	**0.015**	**0.018**
Barium, Total	2	**0.18**	**0.18**	**0.18**	**0.05**	**0.028**	**0.027 J+**	**0.049**	**0.05**	**0.073**	**0.062**	**0.055**	**0.091**	**0.11**
Beryllium, Total	0.004	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium, Total	0.005	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chromium, Total	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt, Total	0.019	0.001 U	0.001 U	**0.00024 J**	**0.00095 J**	**0.0034**	**0.0036**	0.001 U	**0.000087 J**	0.001 U	**0.00048 J**	**0.00039 J**	**0.0012**	**0.0023**
Fluoride	4	**0.15**	**0.15**	**0.14**	**0.38**	**0.33 J+**	**0.35**	**0.08 J+**	**0.11**	**0.17**	**0.2 J+**	**0.18**	**0.22 J+**	**0.17**
Lead, Total	0.035	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Lithium, Total	0.04	0.008 U	0.008 U	0.008 U	0.008 U	**0.053**	**0.052**	**0.2**	**0.22**	0.008 U	0.008 U	0.008 U	**0.018**	**0.026**
Mercury, Total	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum, Total	0.1	**0.0028 J**	**0.0026 J**	**0.0047 J**	**0.13**	**0.17**	**0.17**	**0.24**	**0.4**	**0.0022 J**	**0.021**	**0.02**	**0.18**	**0.28**
Selenium, Total	0.05	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0096**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Thallium, Total	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Radiological (pCi/L)														
Radium-226	NA	**0.809 ± 0.24**	0.248 U ± 0.24	**1.45 ± 0.333**	0.142 U ± 0.146	**0.559 ± 0.169**	**0.366 ± 0.226**	0.117 U ± 0.0912	**0.458 ± 0.237**	**0.592 ± 0.28**	**0.261 ± 0.131**	0.0152 U ± 0.128	**0.24 ± 0.155**	0.0549 U ± 0.15
Radium-228	NA	0.431 UJ ± 0.372	**0.858 ± 0.52**	0.581 UJ ± 0.432	**0.829 J ± 0.513**	0.724 U ± 0.491	0.0357 U ± 0.399	0.145 U ± 0.374	0.618 U ± 0.482	**1.01 ± 0.541**	0.681 U ± 0.482	0.55 U ± 0.459	0.38 U ± 0.502	0.313 U ± 0.461
Radium-226 & 228	5	**1.24 J ± 0.443**	**1.11 J ± 0.573**	**2.03 J ± 0.545**	**0.971 J ± 0.533**	**1.28 J ± 0.519**	0.402 UJ ± 0.459	0.262 U ± 0.385	**1.08 J ± 0.537**	**1.6 ± 0.609**	**0.942 J ± 0.499**	0.565 U ± 0.477	0.62 UJ ± 0.525	0.368 U ± 0.485
Field Parameters														
Temperature (Deg C)	NA	**17.35**	**17.35**	**16.1**	**17.56**	**19.55**	**19.55**	**20.35**	**20.11**	**17.95**	**21.22**	**17.19**	**20**	**17.82**
Dissolved Oxygen, Field (mg/L)	NA	**1.22**	**1.22**	**1.49**	**0.93**	**0.4**	**0.46**	**0.31**	**0.3**	**0.87**	**0.2**	**1.11**	**0.83**	**5.54**
Conductivity, Field (mS/cm)	NA	**1**	**1**	**0.964**	**0.55**	**2.21**	**2.03**	**0.963**	**0.929**	**0.252**	**0.43**	**0.283**	**7.94**	**1**
Oxidation Reduction Potential (ORP), Field (mv)	NA	**-103**	**-103**	**-36**	**14**	**141**	**-81**	**143**	**-191**	**-120**	**-28**	**-48**	**-119**	**-176**
Turbidity, Field (NTU)	NA	**0**	**0**	**1.1**	**0**	**1.8**	**0**	**0**	**0**	**6.3**	**3.4**	**0**	**0**	**0**
pH, Field (pH units)	NA	**6.64**	**6.64**	**6.62**	**6.65**	**7.44**	**6.91**	**10.53**	**10.39**	**6.89**	**7.84**	**6.71**	**7.94**	**7.31**

Abbreviations and Notes:

CCR: Coal Combustion Residuals.
mg/L: milligram per liter.
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mv: millivolts.
NTU: Nephelometric Turbidity Units.
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- GWPS is the maximum of the MCL or RSL where no MCL is available or the Upper Tolerance Limit.

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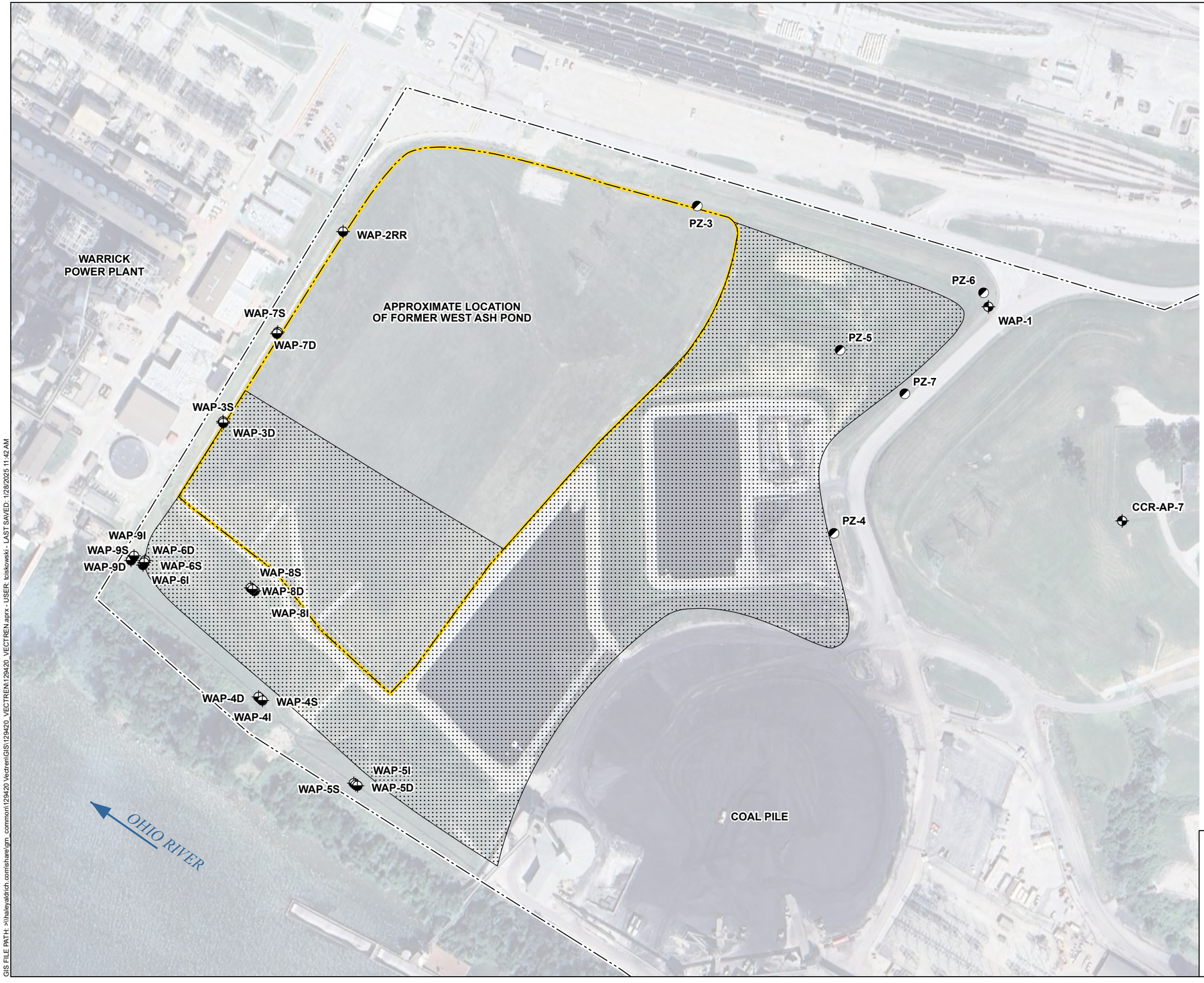
J+: value is estimated with a potential high bias
J-: value is estimated with a potential low bias
U: not detected, value is the laboratory reporting limit
U: activity level below the Minimum Detectable Concentration (Radiological)

FIGURES



LEGEND

- DOWNGRADIENT MONITORING WELL
- UPGRADIENT MONITORING WELL
- PIEZOMETER
- UNIT BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- LIMITS OF WEST ASH POND CCR REMOVAL

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. CCR = COAL COMBUSTION RESIDUALS
3. AERIAL IMAGERY SOURCE: GOOGLE, 10 AUGUST 2024

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0 200 400
SCALE IN FEET

HALEY ALDRICH

F.B. CULLEY GENERATING STATION - WEST ASH POND
WARRICK COUNTY, INDIANA

GROUNDWATER MONITORING WELL LOCATIONS - WEST ASH POND

JULY 2026

FIGURE 1

GIS FILE PATH: >\haleyaldrich.com\share\grn_common\129420 Vectren\GIS\129420_VECTREN129420_VECTREN.aprx - USER: tiskowski - LAST SAVED: 1/28/2025 11:42 AM

WARRICK POWER PLANT

WAP-2RR
353.80

WAP-7S
353.56

WAP-7D

WAP-3S
353.75

WAP-3D

WAP-9S
353.11

WAP-9I

WAP-9D

WAP-6S
352.67

WAP-6I

WAP-6D

WAP-8S
354.32

WAP-8I

WAP-8D

WAP-4S
354.79

WAP-4I

WAP-4D

WAP-5S
355.97

WAP-5I

WAP-5D

PZ-3

PZ-4

PZ-5

PZ-6

PZ-7

WAP-1
390.08

CCR-AP-7
417.74

APPROXIMATE LOCATION OF FORMER WEST ASH POND

COAL PILE

V = 722 FT/YR

V = 476 FT/YR

OHIO RIVER
357.58 FT
NAVD88

353 354 355 360 365 370 375 380 385 390 395 400 405 410 415

395 385

LEGEND

- UPGRADIENT GROUNDWATER MONITORING WELL
- DOWNGRADIENT GROUNDWATER MONITORING WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR, 5-FT INTERVAL, DASHED WHERE INFERRED
- GROUNDWATER ELEVATION CONTOUR, 1-FT INTERVAL
- APPROXIMATE LIMITS OF WEST ASH POND CCR REMOVAL
- APPROXIMATE UNIT BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. WATER LEVELS GAUGED NOVEMBER 10, 2025.

3. OHIO RIVER LEVEL COLLECTED BY USGS OWENSBORO GAGE #03303502 ON NOVEMBER 10, 2025 AT 12:45 PM.

4. GROUNDWATER VELOCITY (V) SHOWING FEET PER YEAR (FT/YR).
   NET VELOCITY FORMULA:
   $V = \frac{k(i)}{n_e}$
   k = HYDRAULIC CONDUCTIVITY
   i = GROUNDWATER GRADIENT
   n_e = EFFECTIVE POROSITY

5. DEFINITIONS:
   CCR = COAL COMBUSTION RESIDUALS
   NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988

6. AERIAL IMAGERY SOURCE: GOOGLE EARTH

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

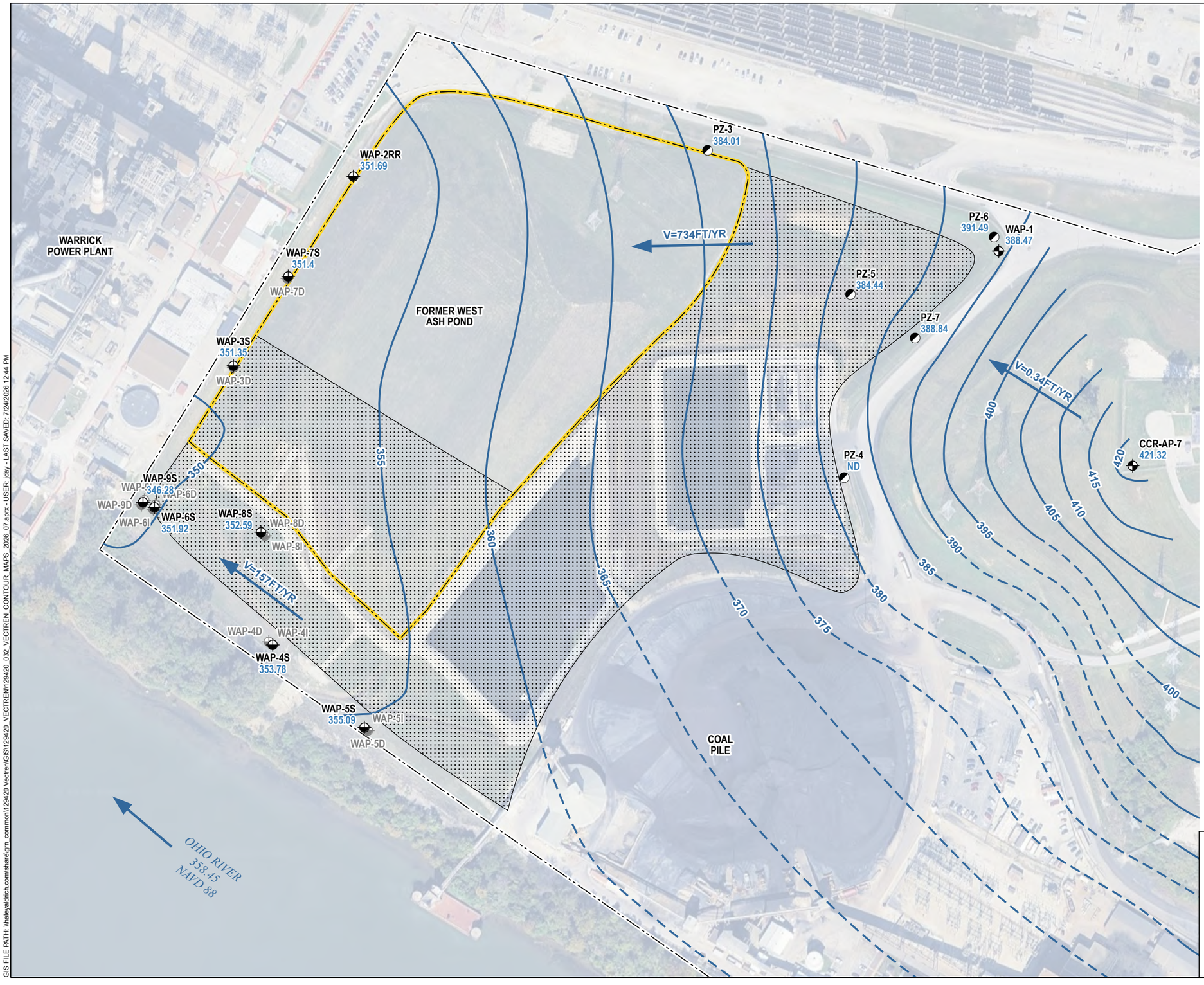
SOUTHERN INDIANA GAS AND ELECTRIC COMPANY
F.B. CULLEY GENERATING STATION
NEWBURGH, INDIANA

SHALLOW GROUNDWATER CONFIGURATION - FORMER WEST ASH POND, NOVEMBER 2025

JULY 2026

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\grn_common\129420 Vectren\GIS\129420_VECTREN\129420_000_VECTREN_CONTOUR_MAPS_2025.aprx - USER: jday - LAST SAVED: 1/26/2026 2:40 PM



GIS FILE PATH: \\haleyaldrich.com\share\grn_common\129420_VECTREN\GIS\129420_VECTREN\129420_032_VECTREN_CONTOUR_MAPS_2026_07.aprx - USER: jday - LAST SAVED: 7/24/2026 12:44 PM

LEGEND

- UPGRADIENT GROUNDWATER MONITORING WELL
- DOWNGRADIENT GROUNDWATER MONITORING WELL
- PIEZOMETER
- UPGRADIENT GROUNDWATER MONITORING WELL NOT USED IN CONTOURING
- DOWNGRADIENT GROUNDWATER MONITORING WELL NOT USED IN CONTOURING
- GROUNDWATER ELEVATION CONTOUR, 5-FT INTERVAL, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- LIMITS OF WEST ASH POND CCR REMOVAL
- UNIT BOUNDARY
- PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. WATER LEVELS GAGED MAY 21, 2026.
3. OHIO RIVER LEVEL COLLECTED BY USGS OWENSBORO GAGE #03303502 ON MAY 21, 2026 AT 12:45 PM.
4. GROUNDWATER VELOCITY (V) SHOWING FEET PER YEAR (FT/YR).
   NET VELOCITY FORMULA:
   $V = \frac{k(i)}{n_e}$
   k = HYDRAULIC CONDUCTIVITY
   i = GROUNDWATER GRADIENT
   n_e = EFFECTIVE POROSITY
5. DEFINITIONS:
   CCR = COAL COMBUSTION RESIDUALS
   NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
6. AERIAL IMAGERY SOURCE: GOOGLE EARTH

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

SOUTHERN INDIANA GAS AND ELECTRIC COMPANY
F.B. CULLEY GENERATING STATION
NEWBURGH, INDIANA

SHALLOW GROUNDWATER CONTOUR MAP - FORMER WEST ASH POND, MAY 2026

JULY 2026

FIGURE 3

APPENDIX A
Summary of Statistical Analysis

HALEY & ALDRICH, INC.
400 Augusta St.
Suite 100
Greenville, SC 29601
864.214.8771

TECHNICAL MEMORANDUM

September 17, 2025
File No. 0129420-032

TO: Southern Indiana Gas and Electric Company

FROM: Haley & Aldrich, Inc.
Cassidy Sutherland, P.G., Senior Project Manager, Geologist
Steven F. Putrich, P.E., Project Principal

SUBJECT: Statistical Evaluation of the May 2025 Semi-annual Groundwater Assessment Monitoring Data
Southern Indiana Gas and Electric Company
Former West Ash Pond
F.B. Culley Generating Station

Pursuant to Title 40 Code of Federal Regulations (40 CFR) § 257.93 and § 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the May 2025 semi-annual assessment monitoring event for the F.B. Culley Generating Station West Ash Pond (WAP). Haley & Aldrich, Inc. (Haley & Aldrich) completed this statistical evaluation to determine if Appendix IV groundwater monitoring constituents have been detected in downgradient wells at statistically significant levels (SSL) greater than the Groundwater Protection Standards (GWPS), consistent with the requirements in 40 CFR § 257.95.

Methods used during this statistical analysis are described in Haley & Aldrich's 2017 *Statistical Data Analysis Plan for the F.B. Culley Generating Station*. A summary of how applicable performance standards described in 40 CFR § 257.93 (g) were achieved include:

- 40 CFR § 257.93 (g) (1) – Data set distribution was evaluated using basic summary statistics, graphical methods including probability plots, and the Shapiro-Wilk Test for Normality. Data sets were also evaluated for statistical outliers using box plots and either Dixon's Q Test for Outliers or Rosner's Outlier Test depending on sample size. Outlier identification and data set distribution groups are summarized in Attachment A. For background limit calculations, parametric methods were used for normally distributed data sets and non-parametric methods were used for non-normally distributed data sets.
- 40 CFR § 257.93 (g) (2) – Not applicable

- 40 CFR § 257.93 (g) (3) – Not applicable
- 40 CFR § 257.93 (g) (4) – Levels of confidence and additional supporting information for the use of tolerance intervals and prediction limits are included in Attachment A.
- 40 CFR § 257.93 (g) (5) – Non-detect values were accounted for by simple substitution, where the detection limit replaced the non-detect result. Non-detect values are identified and summarized in Attachment A.
- 40 CFR § 257.93 (g) (6) – Time series plots for groundwater monitoring wells included in this evaluation were reviewed to identify potential seasonal variability. No additional statistics to account for seasonality or spatial variability were necessary. Temporal trends were evaluated using the non-parametric Mann-Kendall Trend Test and Theil-Sen Estimator.

Data from the groundwater sampling event for the downgradient monitoring wells (WAP-2RR, WAP-3S, WAP-4S and WAP-5S) were compared to the GWPS established from the background dataset for the upgradient monitoring wells (WAP-1 and CCR-AP-7) for detected Appendix IV constituents. May 2025 analytical results are summarized in Table 1. GWPS for each of the Appendix IV constituents have been set equal to the highest value of the maximum contaminant level (MCL), regional screening level (RSL), or background concentration. The results of the assessment monitoring statistical evaluation are discussed below and provided in Attachment A.

Development of Groundwater Protection Standard

The Rule provides four specific options for statistical evaluation of groundwater quality data collected at a coal combustion residual (CCR) unit (40 CFR §257.93(f) (1-4)). Haley & Aldrich certified the tolerance limit (TL) as the statistical method used for developing BTVs for the GWPS on January 14, 2019. As noted above, the GWPS for each of the Appendix IV constituents have been set equal to the highest value of the MCL, RSL, or BTV (TL). The most recent groundwater sampling result from each compliance well was compared to the GWPS to determine if additional statistical testing is warranted.

STATISTICAL EVALUATION

BTVs are periodically updated per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (Unified Guidance). Prior to calculating BTVs, data were evaluated for outlier results, data distribution, and spatial and temporal variability. Potential outlier sample results that would warrant removal from the data set based on likely error in sampling or measurement were identified through statistical outlier using the outliers (version 0.15) R programming package and either the Dixon's or Rosner's Test for Outliers. Potential outliers were further evaluated by visual inspection of box plots and probability plots, and field forms and analytical laboratory reports were reviewed as necessary. No sample data were identified as outliers that warranted removal from the dataset.

Background data distributions were assessed using the stats (version 4.3.3) R programming package and either the Shapiro-Wilk or Shapiro-Francia Test for Normality. Data distributions were further evaluated

by visual inspection of probability and distribution plots. Data distributions inform appropriate BTV calculation methods. Background and downgradient data sets were evaluated for spatial and temporal variability by visual inspection of box plots and time series plots and using the Mann-Kendall Trend Tests (Kendall R programming package, version 2.2.1) and Theil-Sen Estimator (trend R programming package, version 1.1.6). Spatial and temporal variability in background data sets inform appropriate BTV calculation methods.

INTERWELL BACKGROUND EVALUATION

An interwell statistical evaluation was used to determine the TL and identify potential SSLs for detected Appendix IV constituents. The interwell evaluation compares the most recent value from downgradient compliance wells to a background dataset composed of pooled upgradient well data. TLs were calculated from the pooled background well dataset utilizing R programming language and the EnvStats (version 2.8.1) and tolerance (version 2.0.0) packages. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the UTL. Depending on the data distribution, parametric or non-parametric TL procedures are used. Parametric TLs utilize normally distributed data or data normalized via a transformation of the background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

GWPS COMPARISON AND LCL CALCULATIONS

A lower confidence limit (LCL) was calculated for any Appendix IV constituent measured in a downgradient well during the May 2025 sampling event at a concentration greater than the GWPS. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error. An SSL is indicated when the downgradient well/constituent-specific LCL is greater than the GWPS.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the May 2025 assessment monitoring event were compared to their respective GWPS (Attachment A). LCLs were calculated where constituents were detected at concentrations greater than a GWPS. An SSL is indicated when the LCL is greater than the GWPS. SSLs are summarized in the table below. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for all downgradient wells and constituents. Based on this statistical evaluation, lithium, and molybdenum remain as the only Appendix IV constituent SSLs downgradient of the WAP. This information is provided for Southern Indiana Gas and Electric Company’s records. Because no new

constituents were identified as SSLs, additional notification pertaining to the statistical analysis of the May 2025 groundwater analytical results is not required at this time.

Statistically Significant Level Summary - Appendix IV Constituents			
Location	**Constituent**	**May 2025 Concentration (mg/L)**	**Newly Identified SSL**
WAP-3S	Lithium, Total	0.10	No
WAP-3S	Molybdenum, Total	0.40	No
WAP-4S	Molybdenum, Total	0.42	No
Notes: mg/L = milligrams per liter			

TREND SUMMARY

Mann-Kendall trend analyses were performed on data sets from downgradient wells of sufficient sample size as described above. Results of the trend analysis are summarized in Table 2. Trends indicated for constituents identified as SSLs are summarized below:

- Lithium in WAP-3S is increasing (trend confirmed by Thiel-Sen test, Sen's slope)
- Molybdenum in WAP-3S is decreasing
- Molybdenum in WAP-4S is increasing (trend confirmed by Thiel-Sen test), however no trend was identified in recent data (samples collected between August 2018 and May 2025)

Enclosure

Table 1. Summary of Groundwater Quality Data - May 2025
Table 2. Trend Summary

Attachment A – Assessment Monitoring Statistical Analysis Summary

TABLES

TABLE 1
SUMMARY OF GROUNDWATER QUALITY DATA - MAY 2025
F.B. CULLEY GENERATING STATION
FORMER WEST ASH POND
WARRICK COUNTY, INDIANA

Location Group	Criteria	Background		Downgradient			
Location Name		CCR-AP-7	WAP-1	WAP-2RR	WAP-3S	WAP-4S	WAP-5S
Sample Name		CCR-AP-7-20250515	WAP-1-20250516	WAP-2RR-053025	WAP-3S-053025	WAP-4S-20250513	WAP-5S-20250513
Sample Date	GWPS	05/15/2025	05/16/2025	05/30/2025	05/30/2025	05/13/2025	05/13/2025
		180-190644-22	180-190644-1			180-190515-1	180-190515-4
Lab Sample ID		180-190649-5	180-190649-1	180-191166-1	180-191166-2	180-190644-5	180-190644-8
Detection Monitoring - Appendix III Constituents (mg/L)							
Boron, Total	4	**0.024 J**	**0.58**	**2.5**	**2.8**	**12**	**6.9**
Calcium, Total	NA	**130**	**230**	**110**	**110**	**220**	**220**
Chloride	NA	**42**	**75 J-**	**40 J-**	**47 J-**	**82 J-**	**62 J-**
Fluoride	4	**0.34 J+**	**0.37 J+**	**0.25 J+**	**0.38 J+**	**0.15 J+**	**0.12 J+**
pH (lab) (pH units)	NA	**7.1**	**7**	**6.7 J**	**7.8 J**	**7.4 J**	**6.9 J**
Sulfate	NA	**100**	**400 J-**	**110 J-**	**190 J-**	**320 J-**	**560 J-**
Total Dissolved Solids (TDS)	NA	**880**	**1100**	**530**	**550**	**900**	**1100**
Assessment Monitoring - Appendix IV Constituents (mg/L)							
Antimony, Total	0.006	0.002 U	**0.0011 J**	0.002 U	0.002 U	**0.0006 J**	0.002 U
Arsenic, Total	0.025	**0.0018 J**	**0.0028 J**	**0.0013 J**	**0.00095 J**	**0.0089**	**0.00092 J**
Barium, Total	2	**0.12**	**0.38**	**0.029**	**0.045**	**0.058**	**0.044**
Beryllium, Total	0.004	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium, Total	0.005	0.001 U	0.001 U	**0.00037 J**	**0.000093 J**	**0.00015 J**	0.001 U
Chromium, Total	0.1	0.005 U	**0.0023 J**	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt, Total	0.019	**0.00032 J**	**0.001**	**0.0014**	**0.00089 J**	**0.0014**	**0.0051**
Fluoride	4	**0.34 J+**	**0.37 J+**	**0.25 J+**	**0.38 J+**	**0.15 J+**	**0.12 J+**
Lead, Total	0.035	0.001 U	**0.0022**	0.001 U	0.001 U	0.001 U	0.001 U
Lithium, Total	0.04	**0.011**	**0.0072 J**	**0.02**	**0.1**	**0.0067 J**	0.008 U
Mercury, Total	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum, Total	0.1	0.005 U	0.005 U	**0.079**	**0.4**	**0.42**	0.005 U
Selenium, Total	0.05	0.005 U	0.005 U	**0.0039 J**	0.005 U	0.005 U	0.005 U
Thallium, Total	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Radiological (pCi/L)							
Radium-226	NA	-0.0487 U ± 0.0974	**0.975 ± 0.494**	0.154 U ± 0.109	**0.209 ± 0.117**	**0.275 ± 0.189**	0.17 U ± 0.253
Radium-228	NA	0.326 U ± 0.397	1.03 U ± 0.761	0.642 U ± 0.46	**0.808 J ± 0.455**	0.196 U ± 0.312	0.454 U ± 0.511
Radium-226 & 228	5	0.326 U ± 0.409	**2 J ± 0.907**	**0.796 ± 0.473**	**1.02 ± 0.47**	0.471 UJ ± 0.365	0.624 U ± 0.57
Field Parameters							
Temperature (Deg C)	NA	**20.86**	**28.33**	**19.51**	**19.81**	**18.58**	**18.77**
Dissolved Oxygen, Field (mg/L)	NA	**0.11**	**2.82**	**0.32**	**0.37**	**0.09**	**0.03**
Conductivity, Field (mS/cm)	NA	**1.0207**	**1.0192**	**0.824**	**0.8**	**1.4086**	**1.586**
Oxidation Reduction Potential (ORP), Field (mv)	NA	**-70.5**	**-84.9**	**328**	**73**	**-85.5**	**-16.1**
Turbidity, Field (NTU)	NA	**5.43**	**41.79**	**0**	**1.1**	**9.89**	**0.07**
pH, Field (pH units)	NA	**7.04**	**7.04**	**6.88**	**8.31**	**7.28**	**6.67**

NOTES:
CCR: Coal Combustion Residuals.
mg/L: milligram per liter.
pCi/L: picoCurie per liter.
Deg C: Degrees Celsius.
mS/cm: milliSiemen per centimeter
mv: millivolts
NTU: Nephelometric Turbidity Units
NA: not available
USEPA: United States Environmental Protection Agency.
GWPS: Ground Water Protection Standard.

Qualifiers:
J: value is estimated
J+: value is estimated with a potential high bias
J-: value is estimated with a potential low bias
U: not detected, value is the laboratory reporting limit
U: activity level below the Minimum Detectable Concentration (Radiological)

*Results in **bold** are detected.*
Shaded values indicate a GWPS exceedance
- USEPA. 2020. Final Rule: Disposal of Coal Combustion Residuals from Electric Utilities. July 26. 40 CFR Part 257.
https://www.epa.gov/coalash/coal-ash-rule

Table 2. Trend Summary

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (rate of change per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (rate of change per year)
CCR-AP-7	Antimony, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	26	3	0.0025	NA	12	1	0.0025	NA
WAP-1	Antimony, Total	mg/L	Stable	No Trend	22	12	0.002	NA	12	9	0.002	NA
WAP-2RR	Antimony, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.0025	NA	12	1	0.0025	NA
WAP-3S	Antimony, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.0025	NA	12	1	0.0025	NA
WAP-4S	Antimony, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.01	NA	12	1	0.01	NA
WAP-5S	Antimony, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.0025	NA	12	0	0.0025	NA
CCR-AP-7	Arsenic, Total	mg/L	Decreasing	No Trend	26	26	0.018	-0.000651	12	12	0.015	NA
WAP-1	Arsenic, Total	mg/L	Stable	Decreasing	22	22	0.025	NA	12	12	0.025	-0.000943
WAP-2RR	Arsenic, Total	mg/L	Increasing	No Trend	22	20	0.0078	0.000106	12	11	0.0078	NA
WAP-3S	Arsenic, Total	mg/L	Decreasing	Stable	22	18	0.0064	-0.000351	12	8	0.0064	NA
WAP-4S	Arsenic, Total	mg/L	Increasing	Probably Increasing	22	22	0.027	0.00067	12	12	0.027	NA
WAP-5S	Arsenic, Total	mg/L	No Trend	No Trend	22	17	0.005	NA	12	8	0.005	NA
CCR-AP-7	Barium, Total	mg/L	Decreasing	Stable	26	26	0.19	-0.00412	12	12	0.19	NA
WAP-1	Barium, Total	mg/L	Stable	Decreasing	22	22	0.99	NA	12	12	0.99	-0.0317
WAP-2RR	Barium, Total	mg/L	Stable	No Trend	22	22	0.086	NA	12	12	0.086	NA
WAP-3S	Barium, Total	mg/L	Decreasing	No Trend	22	22	0.39	-0.029	12	12	0.39	NA
WAP-4S	Barium, Total	mg/L	Decreasing	Stable	22	22	0.08	-0.00145	12	12	0.069	NA
WAP-5S	Barium, Total	mg/L	Decreasing	Probably Decreasing	22	22	0.063	-0.00203	12	12	0.052	NA
CCR-AP-7	Beryllium, Total	mg/L	No Trend	Not Evaluated - Only one detected result.	26	7	0.00075	NA	12	1	0.0005	NA
WAP-1	Beryllium, Total	mg/L	No Trend	No Trend	22	14	0.0012	NA	12	5	0.00099	NA
WAP-2RR	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	22	2	0.0005	NA	12	1	0.0005	NA
WAP-3S	Beryllium, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	22	1	0.0005	NA	12	0	0.0005	NA
WAP-4S	Beryllium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.0005	NA	12	0	0.0005	NA
WAP-5S	Beryllium, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	22	1	0.0005	NA	12	0	0.0005	NA
CCR-AP-7	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	26	3	0.0005	NA	12	1	0.0005	NA
WAP-1	Cadmium, Total	mg/L	No Trend	Stable	22	9	0.0005	NA	12	3	0.0005	NA
WAP-2RR	Cadmium, Total	mg/L	Decreasing	Decreasing	22	20	0.001	-2.45e-05	12	10	0.00053	-4.2e-05
WAP-3S	Cadmium, Total	mg/L	Stable	Decreasing	22	13	0.0005	NA	12	4	0.0005	-6.16e-05
WAP-4S	Cadmium, Total	mg/L	Probably Decreasing	Decreasing	22	6	0.0005	NA	12	4	0.0005	-3.79e-05
WAP-5S	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	22	2	0.0005	NA	12	1	0.0005	NA
CCR-AP-7	Chromium, Total	mg/L	No Trend	Not Evaluated - Only one detected result.	26	11	0.019	NA	12	1	0.0062	NA
WAP-1	Chromium, Total	mg/L	Probably Decreasing	Probably Decreasing	22	21	0.046	NA	12	12	0.027	NA
WAP-2RR	Chromium, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Majority of data (>75%) non-detect.	22	3	0.0057	NA	12	2	0.0057	NA

Abbreviations: mg/L = milligrams per liter; n = sample count

Notes: *Recent data defined as the 12 most recent data points. MK = Mann Kendall Trend Test. Identified trends were classified based on Aziz (2003) guidance and Mann-Kendall Trend Test Results. Thiel-Sen slope only calculated for increasing or decreasing trends.

			Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
Location	Chemical	Units	Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (rate of change per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (rate of change per year)
WAP-3S	Chromium, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	22	3	0.005	NA	12	1	0.005	NA
WAP-4S	Chromium, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	22	1	0.005	NA	12	0	0.005	NA
WAP-5S	Chromium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.005	NA	12	0	0.005	NA
CCR-AP-7	Cobalt, Total	mg/L	Decreasing	No Trend	26	24	0.015	-0.000193	12	10	0.0049	NA
WAP-1	Cobalt, Total	mg/L	Probably Decreasing	Decreasing	22	22	0.019	NA	12	12	0.012	-0.000832
WAP-2RR	Cobalt, Total	mg/L	Stable	Stable	22	22	0.0097	NA	12	12	0.0097	NA
WAP-3S	Cobalt, Total	mg/L	No Trend	Stable	22	22	0.0018	NA	12	12	0.0018	NA
WAP-4S	Cobalt, Total	mg/L	Stable	Decreasing	22	22	0.0093	NA	12	12	0.0023	-9.92e-05
WAP-5S	Cobalt, Total	mg/L	Decreasing	Stable	22	22	0.0094	-0.000455	12	12	0.0088	NA
CCR-AP-7	Fluoride	mg/L	Increasing	No Trend	25	25	0.72	0.0175	12	12	0.72	NA
WAP-1	Fluoride	mg/L	No Trend	Stable	22	22	2	NA	12	12	2	NA
WAP-2RR	Fluoride	mg/L	Increasing	No Trend	22	22	0.4	0.0225	12	12	0.4	NA
WAP-3S	Fluoride	mg/L	Stable	Stable	22	22	0.77	NA	12	12	0.76	NA
WAP-4S	Fluoride	mg/L	No Trend	No Trend	22	22	0.28	NA	12	12	0.28	NA
WAP-5S	Fluoride	mg/L	Stable	No Trend	22	21	0.21	NA	12	12	0.13	NA
CCR-AP-7	Lead, Total	mg/L	Decreasing	No Trend	26	14	0.02	-9.22e-05	12	3	0.006	NA
WAP-1	Lead, Total	mg/L	Stable	Stable	22	22	0.035	NA	12	12	0.022	NA
WAP-2RR	Lead, Total	mg/L	No Trend	No Trend	22	8	0.0064	NA	12	5	0.0056	NA
WAP-3S	Lead, Total	mg/L	No Trend	Stable	22	14	0.0027	NA	12	5	0.0027	NA
WAP-4S	Lead, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Majority of data (>75%) non-detect.	22	4	0.0015	NA	12	2	0.0015	NA
WAP-5S	Lead, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Majority of data (>75%) non-detect.	22	2	0.0015	NA	12	2	0.0015	NA
CCR-AP-7	Lithium, Total	mg/L	Decreasing	No Trend	26	26	0.039	-0.000411	12	12	0.018	NA
WAP-1	Lithium, Total	mg/L	Probably Decreasing	Stable	22	22	0.027	NA	12	12	0.021	NA
WAP-2RR	Lithium, Total	mg/L	Decreasing	Stable	22	22	0.06	-0.00348	12	12	0.041	NA
WAP-3S	Lithium, Total	mg/L	Increasing	Probably Increasing	22	22	0.12	0.00815	12	12	0.12	NA
WAP-4S	Lithium, Total	mg/L	Decreasing	No Trend	22	14	0.017	-0.000712	12	6	0.0067	NA
WAP-5S	Lithium, Total	mg/L	No Trend	No Trend	22	8	0.025	NA	12	4	0.004	NA
CCR-AP-7	Mercury, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.00032	NA	12	1	0.00032	NA
WAP-1	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.00025	NA	12	0	0.00025	NA
WAP-2RR	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.00025	NA	12	0	0.00025	NA
WAP-3S	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.00025	NA	12	0	0.00025	NA
WAP-4S	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.00025	NA	12	0	0.00025	NA
WAP-5S	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.00025	NA	12	0	0.00025	NA
CCR-AP-7	Molybdenum, Total	mg/L	Decreasing	No Trend	26	24	0.013	-0.000547	12	10	0.0025	NA
WAP-1	Molybdenum, Total	mg/L	No Trend	Increasing	22	17	0.0028	NA	12	8	0.0025	0.000271
WAP-2RR	Molybdenum, Total	mg/L	Increasing	No Trend	22	22	0.16	0.00736	12	12	0.1	NA
WAP-3S	Molybdenum, Total	mg/L	Decreasing	Decreasing	22	22	1.5	-0.0759	12	12	1.1	-0.105
WAP-4S	Molybdenum, Total	mg/L	Increasing	Stable	22	22	0.58	0.015	12	12	0.58	NA
WAP-5S	Molybdenum, Total	mg/L	Increasing	Increasing	22	14	0.4	0.00015	12	5	0.0025	0.000339
CCR-AP-7	Radium-226 & 228	mg/L	Probably Decreasing	Increasing	23	15	1.72	NA	12	4	0.866	0.133

Abbreviations: mg/L = milligrams per liter; n = sample count

Notes: *Recent data defined as the 12 most recent data points. MK = Mann Kendall Trend Test. Identified trends were classified based on Aziz (2003) guidance and Mann-Kendall Trend Test Results. Thiel-Sen slope only calculated for increasing or decreasing trends.

			Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
Location	Chemical	Units	Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (rate of change per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (rate of change per year)
WAP-1	Radium-226 & 228	mg/L	No Trend	Stable	18	14	4.74	NA	12	10	4.74	NA
WAP-2RR	Radium-226 & 228	mg/L	No Trend	No Trend	19	9	2.15	NA	12	6	2.15	NA
WAP-3S	Radium-226 & 228	mg/L	Stable	Stable	18	12	1.38	NA	12	8	1.38	NA
WAP-4S	Radium-226 & 228	mg/L	No Trend	No Trend	19	6	1.86	NA	12	4	1.86	NA
WAP-5S	Radium-226 & 228	mg/L	No Trend	Stable	19	6	1.49	NA	12	5	1.49	NA
CCR-AP-7	Selenium, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	24	3	0.0028	NA	12	1	0.0028	NA
WAP-1	Selenium, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	20	2	0.0025	NA	12	0	0.0025	NA
WAP-2RR	Selenium, Total	mg/L	Probably Increasing	No Trend	20	9	0.0071	NA	12	9	0.0071	NA
WAP-3S	Selenium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.0025	NA	12	0	0.0025	NA
WAP-4S	Selenium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.0025	NA	12	0	0.0025	NA
WAP-5S	Selenium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.0025	NA	12	0	0.0025	NA
CCR-AP-7	Thallium, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	26	4	0.001	NA	12	0	0.001	NA
WAP-1	Thallium, Total	mg/L	No Trend	No Trend	22	12	0.001	NA	12	4	0.001	NA
WAP-2RR	Thallium, Total	mg/L	Increasing	Not Evaluated - Majority of data (>75%) non-detect.	22	10	0.001	5.07e-05	12	2	0.001	NA
WAP-3S	Thallium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.001	NA	12	0	0.001	NA
WAP-4S	Thallium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.001	NA	12	0	0.001	NA
WAP-5S	Thallium, Total	mg/L	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	22	2	0.001	NA	12	0	0.001	NA

Abbreviations: mg/L = milligrams per liter; n = sample count

Notes: *Recent data defined as the 12 most recent data points. MK = Mann Kendall Trend Test. Identified trends were classified based on Aziz (2003) guidance and Mann-Kendall Trend Test Results. Thiel-Sen slope only calculated for increasing or decreasing trends.

ATTACHMENT A
Assessment Monitoring Statistical Analysis Summary

Table A-1. Descriptive Statistics

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	variance	reporting limit range	date range
CCR-AP-7	Antimony, Total	mg/L	26	23	88	0.0050	0.000160	0.0019465	0.002	7.9e-04	6.2e-07	0.002 - 0.005	2016-06-10 to 2025-05-15
WAP-1	Antimony, Total	mg/L	22	10	45	0.0020	0.000450	0.0014800	0.0019	5.9e-04	3.5e-07	0.002 - 0.002	2018-03-15 to 2025-05-16
WAP-2RR	Antimony, Total	mg/L	22	21	95	0.0050	0.001100	0.0020955	0.002	6.8e-04	4.6e-07	0.002 - 0.005	2018-03-15 to 2025-05-30
WAP-3S	Antimony, Total	mg/L	22	21	95	0.0050	0.000430	0.0020650	0.002	7.4e-04	5.4e-07	0.002 - 0.005	2018-03-15 to 2025-05-30
WAP-4S	Antimony, Total	mg/L	22	21	95	0.0200	0.000600	0.0028909	0.002	3.9e-03	1.5e-05	0.002 - 0.02	2018-03-14 to 2025-05-13
WAP-5S	Antimony, Total	mg/L	22	22	100	0.0050	0.002000	0.0021409	0.002	6.4e-04	4.1e-07	0.002 - 0.005	2018-03-13 to 2025-05-13
CCR-AP-7	Arsenic, Total	mg/L	26	0	0	0.0180	0.000660	0.0054665	0.0045	4.1e-03	1.7e-05	NA	2016-06-10 to 2025-05-15
WAP-1	Arsenic, Total	mg/L	22	0	0	0.0250	0.002800	0.0075045	0.005	5.8e-03	3.4e-05	NA	2018-03-15 to 2025-05-16
WAP-2RR	Arsenic, Total	mg/L	22	2	9	0.0078	0.000470	0.0018018	0.001	1.9e-03	3.7e-06	0.001 - 0.005	2018-03-15 to 2025-05-30
WAP-3S	Arsenic, Total	mg/L	22	4	18	0.0100	0.000310	0.0029232	0.0025	2.3e-03	5.3e-06	0.005 - 0.01	2018-03-15 to 2025-05-30
WAP-4S	Arsenic, Total	mg/L	22	0	0	0.0270	0.000730	0.0062332	0.00485	5.4e-03	2.9e-05	NA	2018-03-14 to 2025-05-13
WAP-5S	Arsenic, Total	mg/L	22	5	23	0.0100	0.000390	0.0017627	0.00086	2.3e-03	5.4e-06	0.001 - 0.01	2018-03-13 to 2025-05-13
CCR-AP-7	Barium, Total	mg/L	26	0	0	0.1900	0.076000	0.1264615	0.12	2.8e-02	7.6e-04	NA	2016-06-10 to 2025-05-15
WAP-1	Barium, Total	mg/L	22	0	0	0.9900	0.370000	0.5050000	0.455	1.6e-01	2.7e-02	NA	2018-03-15 to 2025-05-16
WAP-2RR	Barium, Total	mg/L	22	0	0	0.0860	0.023000	0.0425909	0.041	1.6e-02	2.6e-04	NA	2018-03-15 to 2025-05-30
WAP-3S	Barium, Total	mg/L	22	0	0	0.3900	0.024000	0.1466364	0.11	1.2e-01	1.5e-02	NA	2018-03-15 to 2025-05-30
WAP-4S	Barium, Total	mg/L	22	0	0	0.0800	0.043000	0.0555455	0.055	8.1e-03	6.5e-05	NA	2018-03-14 to 2025-05-13
WAP-5S	Barium, Total	mg/L	22	0	0	0.0630	0.037000	0.0503182	0.0505	7.1e-03	5.0e-05	NA	2018-03-13 to 2025-05-13
CCR-AP-7	Beryllium, Total	mg/L	26	19	73	0.0010	0.000067	0.0007787	0.001	3.6e-04	1.3e-07	0.0005 - 0.001	2016-06-10 to 2025-05-15
WAP-1	Beryllium, Total	mg/L	22	8	36	0.0012	0.000072	0.0006641	0.00074	3.6e-04	1.3e-07	0.0005 - 0.001	2018-03-15 to 2025-05-16
WAP-2RR	Beryllium, Total	mg/L	22	20	91	0.0010	0.000240	0.0009141	0.001	2.2e-04	5.1e-08	0.0005 - 0.001	2018-03-15 to 2025-05-30
WAP-3S	Beryllium, Total	mg/L	22	21	95	0.0010	0.000068	0.0009349	0.001	2.2e-04	4.9e-08	0.0005 - 0.001	2018-03-15 to 2025-05-30
WAP-4S	Beryllium, Total	mg/L	22	22	100	0.0010	0.000500	0.0009773	0.001	1.1e-04	1.1e-08	0.0005 - 0.001	2018-03-14 to 2025-05-13
WAP-5S	Beryllium, Total	mg/L	22	21	95	0.0010	0.000084	0.0009356	0.001	2.2e-04	4.8e-08	0.0005 - 0.001	2018-03-13 to 2025-05-13
CCR-AP-7	Cadmium, Total	mg/L	26	23	88	0.0010	0.000097	0.0008868	0.001	2.8e-04	7.7e-08	0.0005 - 0.001	2016-06-10 to 2025-05-15
WAP-1	Cadmium, Total	mg/L	22	13	59	0.0010	0.000130	0.0007041	0.001	3.7e-04	1.4e-07	0.001 - 0.001	2018-03-15 to 2025-05-16
WAP-2RR	Cadmium, Total	mg/L	22	2	9	0.0010	0.000270	0.0004736	0.000415	2.3e-04	5.2e-08	0.001 - 0.001	2018-03-15 to 2025-05-30
WAP-3S	Cadmium, Total	mg/L	22	9	41	0.0010	0.000093	0.0005233	0.00024	4.1e-04	1.7e-07	0.001 - 0.001	2018-03-15 to 2025-05-30
WAP-4S	Cadmium, Total	mg/L	22	16	73	0.0010	0.000062	0.0007769	0.001	3.8e-04	1.4e-07	0.001 - 0.001	2018-03-14 to 2025-05-13
WAP-5S	Cadmium, Total	mg/L	22	20	91	0.0010	0.000092	0.0009201	0.001	2.6e-04	6.7e-08	0.001 - 0.001	2018-03-13 to 2025-05-13
CCR-AP-7	Chromium, Total	mg/L	26	15	58	0.0190	0.000470	0.0039788	0.0023	3.7e-03	1.4e-05	0.0014 - 0.01	2016-06-10 to 2025-05-15
WAP-1	Chromium, Total	mg/L	22	1	5	0.0460	0.002200	0.0123591	0.0094	1.2e-02	1.5e-04	0.0022 - 0.0022	2018-03-15 to 2025-05-16
WAP-2RR	Chromium, Total	mg/L	22	19	86	0.0057	0.002000	0.0029455	0.002	1.4e-03	2.1e-06	0.002 - 0.005	2018-03-15 to 2025-05-30
WAP-3S	Chromium, Total	mg/L	22	19	86	0.0100	0.000990	0.0029723	0.002	2.0e-03	3.9e-06	0.002 - 0.01	2018-03-15 to 2025-05-30
WAP-4S	Chromium, Total	mg/L	22	21	95	0.0100	0.000880	0.0028582	0.002	2.0e-03	4.1e-06	0.002 - 0.01	2018-03-14 to 2025-05-13
WAP-5S	Chromium, Total	mg/L	22	22	100	0.0100	0.002000	0.0029091	0.002	2.0e-03	3.9e-06	0.002 - 0.01	2018-03-13 to 2025-05-13
CCR-AP-7	Cobalt, Total	mg/L	26	2	8	0.0150	0.000210	0.0020385	0.000815	3.1e-03	9.6e-06	0.0005 - 0.002	2016-06-10 to 2025-05-15
WAP-1	Cobalt, Total	mg/L	22	0	0	0.0190	0.000440	0.0050927	0.0041	5.0e-03	2.5e-05	NA	2018-03-15 to 2025-05-16
WAP-2RR	Cobalt, Total	mg/L	22	0	0	0.0097	0.000520	0.0025186	0.0021	2.0e-03	4.1e-06	NA	2018-03-15 to 2025-05-30
WAP-3S	Cobalt, Total	mg/L	22	0	0	0.0018	0.000340	0.0008882	0.000815	4.2e-04	1.8e-07	NA	2018-03-15 to 2025-05-30
WAP-4S	Cobalt, Total	mg/L	22	0	0	0.0093	0.001300	0.0021318	0.0018	1.6e-03	2.7e-06	NA	2018-03-14 to 2025-05-13
WAP-5S	Cobalt, Total	mg/L	22	0	0	0.0094	0.001600	0.0069545	0.00745	2.0e-03	3.8e-06	NA	2018-03-13 to 2025-05-13
CCR-AP-7	Fluoride	mg/L	25	0	0	0.7200	0.140000	0.3364000	0.31	1.2e-01	1.6e-02	NA	2016-08-12 to 2025-05-15
WAP-1	Fluoride	mg/L	22	0	0	2.0000	0.110000	0.4409091	0.28	4.4e-01	1.9e-01	NA	2018-03-15 to 2025-05-16
WAP-2RR	Fluoride	mg/L	22	0	0	0.4000	0.110000	0.2468182	0.25	7.9e-02	6.2e-03	NA	2018-03-15 to 2025-05-30
WAP-3S	Fluoride	mg/L	22	0	0	0.7700	0.240000	0.5209091	0.525	1.5e-01	2.3e-02	NA	2018-03-15 to 2025-05-30
WAP-4S	Fluoride	mg/L	22	0	0	0.2800	0.110000	0.2045455	0.215	4.5e-02	2.0e-03	NA	2018-03-14 to 2025-05-13
WAP-5S	Fluoride	mg/L	22	1	5	0.2100	0.030000	0.1027273	0.1	3.4e-02	1.2e-03	0.1 - 0.1	2018-03-13 to 2025-05-13
CCR-AP-7	Lead, Total	mg/L	26	12	46	0.0200	0.000130	0.0027642	0.001	4.2e-03	1.8e-05	0.001 - 0.003	2016-06-10 to 2025-05-15
WAP-1	Lead, Total	mg/L	22	0	0	0.0350	0.000680	0.0098855	0.0076	9.4e-03	8.9e-05	NA	2018-03-15 to 2025-05-16
WAP-2RR	Lead, Total	mg/L	22	14	64	0.0064	0.000160	0.0013741	0.001	1.5e-03	2.4e-06	0.001 - 0.001	2018-03-15 to 2025-05-30
WAP-3S	Lead, Total	mg/L	22	8	36	0.0030	0.000230	0.0009695	0.001	7.2e-04	5.1e-07	0.001 - 0.003	2018-03-15 to 2025-05-30
WAP-4S	Lead, Total	mg/L	22	18	82	0.0030	0.000130	0.0009677	0.001	5.4e-04	2.9e-07	0.001 - 0.003	2018-03-14 to 2025-05-13
WAP-5S	Lead, Total	mg/L	22	20	91	0.0030	0.000200	0.0010255	0.001	4.9e-04	2.4e-07	0.001 - 0.003	2018-03-13 to 2025-05-13
CCR-AP-7	Lithium, Total	mg/L	26	0	0	0.0390	0.007000	0.0131385	0.011	6.5e-03	4.2e-05	NA	2016-06-10 to 2025-05-15
WAP-1	Lithium, Total	mg/L	22	0	0	0.0270	0.004700	0.0116909	0.01	5.8e-03	3.4e-05	NA	2018-03-15 to 2025-05-16
WAP-2RR	Lithium, Total	mg/L	22	0	0	0.0600	0.012000	0.0296364	0.026	1.4e-02	1.9e-04	NA	2018-03-15 to 2025-05-30
WAP-3S	Lithium, Total	mg/L	22	0	0	0.1200	0.033000	0.0754545	0.079	2.4e-02	5.9e-04	NA	2018-03-15 to 2025-05-30
WAP-4S	Lithium, Total	mg/L	22	8	36	0.0170	0.001400	0.0070136	0.005	4.6e-03	2.1e-05	0.005 - 0.008	2018-03-14 to 2025-05-13
WAP-5S	Lithium, Total	mg/L	22	14	64	0.0500	0.001400	0.0073636	0.005	1.0e-02	9.9e-05	0.005 - 0.05	2018-03-13 to 2025-05-13
CCR-AP-7	Mercury, Total	mg/L	23	22	96	0.0005	0.000200	0.0002183	0.0002	6.6e-05	4.4e-09	0.0002 - 0.0005	2016-06-10 to 2025-05-15
WAP-1	Mercury, Total	mg/L	20	20	100	0.0005	0.000200	0.0002150	0.0002	6.7e-05	4.5e-09	0.0002 - 0.0005	2018-03-15 to 2025-05-16
WAP-2RR	Mercury, Total	mg/L	20	20	100	0.0005	0.000200	0.0002150	0.0002	6.7e-05	4.5e-09	0.0002 - 0.0005	2018-03-15 to 2025-05-30
WAP-3S	Mercury, Total	mg/L	20	20	100	0.0005	0.000200	0.0002150	0.0002	6.7e-05	4.5e-09	0.0002 - 0.0005	2018-03-15 to 2025-05-30
WAP-4S	Mercury, Total	mg/L	21	21	100	0.0005	0.000200	0.0002143	0.0002	6.5e-05	4.3e-09	0.0002 - 0.0005	2018-03-14 to 2025-05-13
WAP-5S	Mercury, Total	mg/L	20	20	100	0.0005	0.000200	0.0002150	0.0002	6.7e-05	4.5e-09	0.0002 - 0.0005	2018-03-13 to 2025-05-13
CCR-AP-7	Molybdenum, Total	mg/L	26	2	8	0.0130	0.001100	0.0036192	0.00225	3.0e-03	8.8e-06	0.005 - 0.005	2016-06-10 to 2025-05-15
WAP-1	Molybdenum, Total	mg/L	22	5	23	0.0050	0.000680	0.0022227	0.0014	1.7e-03	2.7e-06	0.005 - 0.005	2018-03-15 to 2025-05-16
WAP-2RR	Molybdenum, Total	mg/L	22	0	0	0.1600	0.013000	0.0632727	0.0665	3.3e-02	1.1e-03	NA	2018-03-15 to 2025-05-30
WAP-3S	Molybdenum, Total	mg/L	22	0	0	1.5000	0.260000	0.7845455	0.765	3.2e-01	1.0e-01	NA	2018-03-15 to 2025-05-30
WAP-4S	Molybdenum, Total	mg/L	22	0	0	0.5800	0.000780	0.4259445	0.45	1.1e-01	1.2e-02	NA	2018-03-14 to 2025-05-13
WAP-5S	Molybdenum, Total	mg/L	22	8	36	0.4000	0.000640	0.0205459	0.00104	8.5e-02	7.2e-03	0.005 - 0.005	2018-03-13 to 2025-05-13
CCR-AP-7	Radium-226 & 228	pCi/L	23	8	35	1.7200	0.126000	0.8250870	0.764	4.4e-01	2.0e-01	0.126 - 1.44	2016-06-10 to 2025-05-15
WAP-1	Radium-226 & 228	pCi/L	18	4	22	4.7400	0.480000	1.4759444	1.25	9.7e-01	9.4e-01	0.48 - 1.45	2018-04-02 to 2025-05-16
WAP-2RR	Radium-226 & 228	pCi/L	19	10	53	2.1500	0.088300	0.5902263	0.419	5.3e-01	2.8e-01	0.0883 - 0.797	2018-03-15 to 2025-05-30
WAP-3S	Radium-226 & 228	pCi/L	18	6	33	1.3800	0.122000	0.8285556	0.95	3.8e-01	1.4e-01	0.122 - 1.08	2018-03-15 to 2025-05-30
WAP-4S	Radium-226 & 228	pCi/L	19	13	68	1.8600	0.131000	0.5396842	0.315	4.5e-01	2.0e-01	0.131 - 0.901	2018-03-14 to 2025-05-13
WAP-5S	Radium-226 & 228	pCi/L	19	13	68	1.4900	0.045400	0.4471789	0.361	3.4e-01	1.1e-01	0.0454 - 0.624	2018-03-13 to 2025-05-13
CCR-AP-7	Selenium, Total	mg/L	24	21	88	0.0050	0.000350	0.0045367	0.005	1.3e-03	1.7e-06	0.005 - 0.005	2016-06-10 to 2025-05-15
WAP-1	Selenium, Total	mg/L	20	18	90	0.0050	0.001800	0.0046800	0.005	9.8e-04	9.7e-07	0.005 - 0.005	2018-03-15 to 2025-05-16

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	variance	reporting limit range	date range
WAP-2RR	Selenium, Total	mg/L	20	11	55	0.0071	0.001400	0.0047500	0.005	1.3e-03	1.7e-06	0.005 - 0.005	2018-03-15 to 2025-05-30
WAP-3S	Selenium, Total	mg/L	20	20	100	0.0050	0.005000	0.0050000	0.005	0.0e+00	0.0e+00	0.005 - 0.005	2018-03-15 to 2025-05-30
WAP-4S	Selenium, Total	mg/L	20	20	100	0.0050	0.005000	0.0050000	0.005	0.0e+00	0.0e+00	0.005 - 0.005	2018-03-14 to 2025-05-13
WAP-5S	Selenium, Total	mg/L	20	20	100	0.0050	0.005000	0.0050000	0.005	0.0e+00	0.0e+00	0.005 - 0.005	2018-03-13 to 2025-05-13
CCR-AP-7	Thallium, Total	mg/L	26	22	85	0.0020	0.000066	0.0009171	0.001	3.8e-04	1.4e-07	0.001 - 0.002	2016-06-10 to 2025-05-15
WAP-1	Thallium, Total	mg/L	22	10	45	0.0020	0.000083	0.0006660	0.00058	4.7e-04	2.2e-07	0.001 - 0.002	2018-03-15 to 2025-05-16
WAP-2RR	Thallium, Total	mg/L	22	12	55	0.0020	0.000067	0.0006770	0.001	5.1e-04	2.6e-07	0.001 - 0.002	2018-03-15 to 2025-05-30
WAP-3S	Thallium, Total	mg/L	22	22	100	0.0020	0.001000	0.0010455	0.001	2.1e-04	4.5e-08	0.001 - 0.002	2018-03-15 to 2025-05-30
WAP-4S	Thallium, Total	mg/L	22	22	100	0.0020	0.001000	0.0010455	0.001	2.1e-04	4.5e-08	0.001 - 0.002	2018-03-14 to 2025-05-13
WAP-5S	Thallium, Total	mg/L	22	20	91	0.0020	0.000110	0.0009695	0.001	3.4e-04	1.1e-07	0.001 - 0.002	2018-03-13 to 2025-05-13

Table A-2. Results of Shapiro-Wilk Test for Normality

		Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
Location	**Constituent**	**W statistic**	**p-value**	**Sample Count (n)**	**Non-Detect Count (n)**	**Data Normality (significance level = 0.05)**
CCR-AP-7	Antimony, Total	0.446	7.5e-09	26	23	Not normal
WAP-1	Antimony, Total	0.814	0.00082	22	10	Not normal
WAP-2RR	Antimony, Total	0.243	1.1e-09	22	21	Not normal
WAP-3S	Antimony, Total	0.357	7.7e-09	22	21	Not normal
WAP-4S	Antimony, Total	0.292	2.4e-09	22	21	Not normal
WAP-5S	Antimony, Total	NA	NA	22	22	Not Evaluated - All Non-Detect Results
CCR-AP-7	Arsenic, Total	0.860	0.0023	26	0	Not normal
WAP-1	Arsenic, Total	0.745	7.8e-05	22	0	Not normal
WAP-2RR	Arsenic, Total	0.628	2.7e-06	22	2	Not normal
WAP-3S	Arsenic, Total	0.923	0.086	22	4	Normal
WAP-4S	Arsenic, Total	0.645	4.2e-06	22	0	Not normal
WAP-5S	Arsenic, Total	0.664	7e-06	22	5	Not normal
CCR-AP-7	Barium, Total	0.945	0.17	26	0	Normal
WAP-1	Barium, Total	0.758	0.00012	22	0	Not normal
WAP-2RR	Barium, Total	0.911	0.049	22	0	Not normal
WAP-3S	Barium, Total	0.866	0.0067	22	0	Not normal
WAP-4S	Barium, Total	0.908	0.044	22	0	Not normal
WAP-5S	Barium, Total	0.963	0.55	22	0	Normal
CCR-AP-7	Beryllium, Total	0.729	1.4e-05	26	19	Not normal
WAP-1	Beryllium, Total	0.902	0.033	22	8	Not normal
WAP-2RR	Beryllium, Total	0.420	2.5e-08	22	20	Not normal
WAP-3S	Beryllium, Total	0.339	5.5e-09	22	21	Not normal
WAP-4S	Beryllium, Total	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-5S	Beryllium, Total	0.340	5.6e-09	22	21	Not normal
CCR-AP-7	Cadmium, Total	0.456	9.3e-09	26	23	Not normal
WAP-1	Cadmium, Total	0.689	1.4e-05	22	13	Not normal
WAP-2RR	Cadmium, Total	0.754	0.0001	22	2	Not normal
WAP-3S	Cadmium, Total	0.797	0.00046	22	9	Not normal
WAP-4S	Cadmium, Total	0.614	1.9e-06	22	16	Not normal
WAP-5S	Cadmium, Total	0.339	5.5e-09	22	20	Not normal
CCR-AP-7	Chromium, Total	0.589	2.2e-07	26	15	Not normal
WAP-1	Chromium, Total	0.760	0.00013	22	1	Not normal
WAP-2RR	Chromium, Total	0.659	6.2e-06	22	19	Not normal
WAP-3S	Chromium, Total	0.666	7.4e-06	22	19	Not normal
WAP-4S	Chromium, Total	0.541	3.2e-07	22	21	Not normal
WAP-5S	Chromium, Total	NA	NA	22	22	Not Evaluated - All Non-Detect Results
CCR-AP-7	Cobalt, Total	0.583	1.9e-07	26	2	Not normal
WAP-1	Cobalt, Total	0.781	0.00026	22	0	Not normal
WAP-2RR	Cobalt, Total	0.709	2.5e-05	22	0	Not normal
WAP-3S	Cobalt, Total	0.941	0.21	22	0	Normal
WAP-4S	Cobalt, Total	0.399	1.7e-08	22	0	Not normal
WAP-5S	Cobalt, Total	0.913	0.054	22	0	Normal
CCR-AP-7	Fluoride	0.889	0.01	25	0	Not normal
WAP-1	Fluoride	0.620	2.2e-06	22	0	Not normal
WAP-2RR	Fluoride	0.977	0.86	22	0	Normal
WAP-3S	Fluoride	0.972	0.75	22	0	Normal
WAP-4S	Fluoride	0.958	0.46	22	0	Normal
WAP-5S	Fluoride	0.920	0.076	22	1	Normal
CCR-AP-7	Lead, Total	0.552	8.6e-08	26	12	Not normal
WAP-1	Lead, Total	0.780	0.00025	22	0	Not normal
WAP-2RR	Lead, Total	0.467	6.6e-08	22	14	Not normal
WAP-3S	Lead, Total	0.737	5.9e-05	22	8	Not normal
WAP-4S	Lead, Total	0.546	3.7e-07	22	18	Not normal
WAP-5S	Lead, Total	0.376	1.1e-08	22	20	Not normal
CCR-AP-7	Lithium, Total	0.669	2e-06	26	0	Not normal
WAP-1	Lithium, Total	0.854	0.0039	22	0	Not normal
WAP-2RR	Lithium, Total	0.894	0.023	22	0	Not normal
WAP-3S	Lithium, Total	0.969	0.7	22	0	Normal
WAP-4S	Lithium, Total	0.771	0.00018	22	8	Not normal
WAP-5S	Lithium, Total	0.468	6.6e-08	22	14	Not normal
CCR-AP-7	Mercury, Total	0.333	3e-09	23	22	Not normal
WAP-1	Mercury, Total	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-2RR	Mercury, Total	NA	NA	20	20	Not Evaluated - All Non-Detect Results

Location	Constituent	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit) W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
WAP-3S	Mercury, Total	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-4S	Mercury, Total	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-5S	Mercury, Total	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CCR-AP-7	Molybdenum, Total	0.751	2.9e-05	26	2	Not normal
WAP-1	Molybdenum, Total	0.862	0.0057	22	5	Not normal
WAP-2RR	Molybdenum, Total	0.921	0.08	22	0	Normal
WAP-3S	Molybdenum, Total	0.970	0.72	22	0	Normal
WAP-4S	Molybdenum, Total	0.714	3e-05	22	0	Not normal
WAP-5S	Molybdenum, Total	0.229	8.3e-10	22	8	Not normal
CCR-AP-7	Radium-226 & 228	0.958	0.43	23	8	Normal
WAP-1	Radium-226 & 228	0.799	0.0015	18	4	Not normal
WAP-2RR	Radium-226 & 228	0.802	0.0012	19	10	Not normal
WAP-3S	Radium-226 & 228	0.914	0.1	18	6	Normal
WAP-4S	Radium-226 & 228	0.745	0.0002	19	13	Not normal
WAP-5S	Radium-226 & 228	0.762	0.00033	19	13	Not normal
CCR-AP-7	Selenium, Total	0.373	4.1e-09	24	21	Not normal
WAP-1	Selenium, Total	0.351	1.8e-08	20	18	Not normal
WAP-2RR	Selenium, Total	0.739	0.00012	20	11	Not normal
WAP-3S	Selenium, Total	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-4S	Selenium, Total	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-5S	Selenium, Total	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CCR-AP-7	Thallium, Total	0.585	2e-07	26	22	Not normal
WAP-1	Thallium, Total	0.874	0.0092	22	10	Not normal
WAP-2RR	Thallium, Total	0.820	0.0011	22	12	Not normal
WAP-3S	Thallium, Total	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-4S	Thallium, Total	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-5S	Thallium, Total	0.518	1.9e-07	22	20	Not normal

Table A-3. Results of Rosner/Dixon Test for Outliers

		Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by 0.5*reporting limit)							
Location	**Constituent**	**Outlier Test**	**n**	**n, non-detects**	**statistic**	**Alternative Hypothesis**	**p-value**	**Statistical Outlier (significance level = 0.05)**	**Outlier Removed**
CCR-AP-7	Antimony, Total	Rosner	26	23	4.2284	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Antimony, Total	Rosner	26	23	4.2920	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Antimony, Total	Rosner	26	23	4.2720	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Antimony, Total	Dixon	22	10	0.4724	highest value 0.002 is an outlier	0.048	Yes	No
WAP-2RR	Antimony, Total	Dixon	22	21	1.0000	highest value 0.0025 is an outlier	0	Yes	No
WAP-3S	Antimony, Total	Dixon	22	21	1.0000	highest value 0.0025 is an outlier	0	Yes	No
WAP-4S	Antimony, Total	Dixon	22	21	1.0000	highest value 0.01 is an outlier	0	Yes	No
WAP-5S	Antimony, Total	Dixon	22	22	All results are non-detect	Not Evaluated	NA	NA	NA
CCR-AP-7	Arsenic, Total	Rosner	26	0	3.0807	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Arsenic, Total	Rosner	26	0	3.1065	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Arsenic, Total	Rosner	26	0	1.5453	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Arsenic, Total	Dixon	22	0	0.5046	highest value 0.025 is an outlier	0.024	Yes	No
WAP-2RR	Arsenic, Total	Dixon	22	2	0.6749	highest value 0.0078 is an outlier	0	Yes	No
WAP-3S	Arsenic, Total	Dixon	22	4	0.4522	highest value 0.0064 is an outlier	0.069	No	NA
WAP-4S	Arsenic, Total	Dixon	22	0	0.6276	highest value 0.027 is an outlier	0	Yes	No
WAP-5S	Arsenic, Total	Dixon	22	5	0.5556	highest value 0.005 is an outlier	0.0046	Yes	No
CCR-AP-7	Barium, Total	Rosner	26	0	2.3027	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Barium, Total	Rosner	26	0	2.6578	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Barium, Total	Rosner	26	0	2.1357	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Barium, Total	Dixon	22	0	0.5082	highest value 0.99 is an outlier	0.023	Yes	No
WAP-2RR	Barium, Total	Dixon	22	0	0.3934	highest value 0.086 is an outlier	0.17	No	NA
WAP-3S	Barium, Total	Dixon	22	0	0.1667	highest value 0.39 is an outlier	0.7	No	NA
WAP-4S	Barium, Total	Dixon	22	0	0.5484	highest value 0.08 is an outlier	0.0073	Yes	No
WAP-5S	Barium, Total	Dixon	22	0	0.2917	lowest value 0.037 is an outlier	0.54	No	NA
CCR-AP-7	Beryllium, Total	Rosner	26	19	2.1821	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Beryllium, Total	Rosner	26	19	2.1275	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Beryllium, Total	Rosner	26	19	2.2005	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Beryllium, Total	Dixon	22	8	0.3093	highest value 0.0012 is an outlier	0.46	No	NA
WAP-2RR	Beryllium, Total	Dixon	22	20	0.5000	lowest value 0.00024 is an outlier	0.027	Yes	No
WAP-3S	Beryllium, Total	Dixon	22	21	1.0000	lowest value 0.000068 is an outlier	0	Yes	No
WAP-4S	Beryllium, Total	Dixon	22	22	All results are non-detect	Not Evaluated	NA	NA	NA
WAP-5S	Beryllium, Total	Dixon	22	21	1.0000	lowest value 0.000084 is an outlier	0	Yes	No
CCR-AP-7	Cadmium, Total	Rosner	26	23	3.0981	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Cadmium, Total	Rosner	26	23	3.6016	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Cadmium, Total	Rosner	26	23	3.7693	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Cadmium, Total	Dixon	22	13	0.2162	lowest value 0.00013 is an outlier	0.98	No	NA
WAP-2RR	Cadmium, Total	Dixon	22	2	0.6528	highest value 0.001 is an outlier	0	Yes	No
WAP-3S	Cadmium, Total	Dixon	22	9	0.0663	lowest value 0.000093 is an outlier	0.15	No	NA
WAP-4S	Cadmium, Total	Dixon	22	16	0.2009	lowest value 0.000062 is an outlier	0.92	No	NA
WAP-5S	Cadmium, Total	Dixon	22	20	1.0000	lowest value 0.000092 is an outlier	0	Yes	No
CCR-AP-7	Chromium, Total	Rosner	26	15	4.3527	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Chromium, Total	Rosner	26	15	2.2372	Up to 3 observations are not from the same Distribution.	NA	NA	NA

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by 0.5*reporting limit)

Location	Constituent	Outlier Test	n	n, non-detects	statistic	Alternative Hypothesis	p-value	Statistical Outlier (significance level = 0.05)	Outlier Removed
CCR-AP-7	Chromium, Total	Rosner	26	15	2.5145	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Chromium, Total	Dixon	22	1	0.4450	highest value 0.046 is an outlier	0.078	No	NA
WAP-2RR	Chromium, Total	Dixon	22	19	0.6809	highest value 0.0057 is an outlier	0	Yes	No
WAP-3S	Chromium, Total	Dixon	22	19	0.6250	highest value 0.005 is an outlier	0	Yes	No
WAP-4S	Chromium, Total	Dixon	22	21	0.6250	highest value 0.005 is an outlier	0	Yes	No
WAP-5S	Chromium, Total	Dixon	22	22	All results are non-detect	Not Evaluated	NA	NA	NA
CCR-AP-7	Cobalt, Total	Rosner	26	2	4.1780	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Cobalt, Total	Rosner	26	2	2.3630	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Cobalt, Total	Rosner	26	2	2.7007	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Cobalt, Total	Dixon	22	0	0.3911	highest value 0.019 is an outlier	0.18	No	NA
WAP-2RR	Cobalt, Total	Dixon	22	0	0.5950	highest value 0.0097 is an outlier	0	Yes	No
WAP-3S	Cobalt, Total	Dixon	22	0	0.2190	highest value 0.0018 is an outlier	0.96	No	NA
WAP-4S	Cobalt, Total	Dixon	22	0	0.8861	highest value 0.0093 is an outlier	0	Yes	No
WAP-5S	Cobalt, Total	Dixon	22	0	0.3699	lowest value 0.0016 is an outlier	0.23	No	NA
CCR-AP-7	Fluoride	Dixon	25	0	0.4600	highest value 0.72 is an outlier	0.038	Yes	No
WAP-1	Fluoride	Dixon	22	0	0.5525	highest value 2 is an outlier	0.0057	Yes	No
WAP-2RR	Fluoride	Dixon	22	0	0.2000	highest value 0.4 is an outlier	0.92	No	NA
WAP-3S	Fluoride	Dixon	22	0	0.1765	lowest value 0.24 is an outlier	0.76	No	NA
WAP-4S	Fluoride	Dixon	22	0	0.2857	lowest value 0.11 is an outlier	0.57	No	NA
WAP-5S	Fluoride	Dixon	22	1	0.5479	highest value 0.21 is an outlier	0.0074	Yes	No
CCR-AP-7	Lead, Total	Rosner	26	12	4.0798	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Lead, Total	Rosner	26	12	2.8432	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Lead, Total	Rosner	26	12	3.3484	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Lead, Total	Dixon	22	0	0.3976	highest value 0.035 is an outlier	0.16	No	NA
WAP-2RR	Lead, Total	Dixon	22	14	0.7692	highest value 0.0064 is an outlier	0	Yes	No
WAP-3S	Lead, Total	Dixon	22	8	0.5000	highest value 0.0027 is an outlier	0.027	Yes	No
WAP-4S	Lead, Total	Dixon	22	18	0.8403	highest value 0.0015 is an outlier	0	Yes	No
WAP-5S	Lead, Total	Dixon	22	20	1.0000	highest value 0.0015 is an outlier	0	Yes	No
CCR-AP-7	Lithium, Total	Rosner	26	0	3.9853	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Lithium, Total	Rosner	26	0	2.0467	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Lithium, Total	Rosner	26	0	2.3074	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Lithium, Total	Dixon	22	0	0.2941	highest value 0.027 is an outlier	0.53	No	NA
WAP-2RR	Lithium, Total	Dixon	22	0	0.1818	highest value 0.06 is an outlier	0.8	No	NA
WAP-3S	Lithium, Total	Dixon	22	0	0.2500	highest value 0.12 is an outlier	0.77	No	NA
WAP-4S	Lithium, Total	Dixon	22	8	0.2069	highest value 0.017 is an outlier	0.96	No	NA
WAP-5S	Lithium, Total	Dixon	22	14	0.8982	highest value 0.025 is an outlier	0	Yes	No
CCR-AP-7	Mercury, Total	Dixon	23	22	1.0000	highest value 0.00032 is an outlier	0	Yes	No
WAP-1	Mercury, Total	Dixon	20	20	All results are non-detect	Not Evaluated	NA	NA	NA
WAP-2RR	Mercury, Total	Dixon	20	20	All results are non-detect	Not Evaluated	NA	NA	NA
WAP-3S	Mercury, Total	Dixon	20	20	All results are non-detect	Not Evaluated	NA	NA	NA
WAP-4S	Mercury, Total	Dixon	21	21	All results are non-detect	Not Evaluated	NA	NA	NA
WAP-5S	Mercury, Total	Dixon	20	20	All results are non-detect	Not Evaluated	NA	NA	NA
CCR-AP-7	Molybdenum, Total	Rosner	26	2	3.2519	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Molybdenum, Total	Rosner	26	2	2.5599	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Molybdenum, Total	Rosner	26	2	2.7771	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Molybdenum, Total	Dixon	22	5	0.0980	highest value 0.0028 is an outlier	0.3	No	NA
WAP-2RR	Molybdenum, Total	Dixon	22	0	0.4688	highest value 0.16 is an outlier	0.051	No	NA
WAP-3S	Molybdenum, Total	Dixon	22	0	0.2752	highest value 1.5 is an outlier	0.63	No	NA
WAP-4S	Molybdenum, Total	Dixon	22	0	0.6595	lowest value 0.00078 is an outlier	0	Yes	No
WAP-5S	Molybdenum, Total	Dixon	22	8	0.9954	highest value 0.4 is an outlier	0	Yes	No
CCR-AP-7	Radium-226 & 228	Dixon	23	8	0.2762	highest value 1.72 is an outlier	0.59	No	NA
WAP-1	Radium-226 & 228	Dixon	18	4	0.5922	highest value 4.74 is an outlier	0.0088	Yes	No

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by 0.5*reporting limit)

Location	Constituent	Outlier Test	n	n, non-detects	statistic	Alternative Hypothesis	p-value	Statistical Outlier (significance level = 0.05)	Outlier Removed
WAP-2RR	Radium-226 & 228	Dixon	19	10	0.5471	highest value 2.15 is an outlier	0.02	Yes	No
WAP-3S	Radium-226 & 228	Dixon	18	6	0.1045	lowest value 0.061 is an outlier	0.25	No	NA
WAP-4S	Radium-226 & 228	Dixon	19	13	0.4419	highest value 1.86 is an outlier	0.13	No	NA
WAP-5S	Radium-226 & 228	Dixon	19	13	0.5020	highest value 1.49 is an outlier	0.051	No	NA
CCR-AP-7	Selenium, Total	Dixon	24	21	1.0000	lowest value 0.00035 is an outlier	0	Yes	No
WAP-1	Selenium, Total	Dixon	20	18	1.0000	lowest value 0.0018 is an outlier	0	Yes	No
WAP-2RR	Selenium, Total	Dixon	20	11	0.2609	highest value 0.0071 is an outlier	0.79	No	NA
WAP-3S	Selenium, Total	Dixon	20	20	All results are non-detect	Not Evaluated	NA	NA	NA
WAP-4S	Selenium, Total	Dixon	20	20	All results are non-detect	Not Evaluated	NA	NA	NA
WAP-5S	Selenium, Total	Dixon	20	20	All results are non-detect	Not Evaluated	NA	NA	NA
CCR-AP-7	Thallium, Total	Rosner	26	22	2.9734	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Thallium, Total	Rosner	26	22	2.7051	Up to 3 observations are not from the same Distribution.	NA	NA	NA
CCR-AP-7	Thallium, Total	Rosner	26	22	3.2235	Up to 3 observations are not from the same Distribution.	NA	NA	NA
WAP-1	Thallium, Total	Dixon	22	10	0.5732	highest value 0.001 is an outlier	0	Yes	No
WAP-2RR	Thallium, Total	Dixon	22	12	0.5459	highest value 0.001 is an outlier	0.0082	Yes	No
WAP-3S	Thallium, Total	Dixon	22	22	All results are non-detect	Not Evaluated	NA	NA	NA
WAP-4S	Thallium, Total	Dixon	22	22	All results are non-detect	Not Evaluated	NA	NA	NA
WAP-5S	Thallium, Total	Dixon	22	20	1.0000	highest value 0.001 is an outlier	0	Yes	No

Table A-4. Results of Mann Kendall and Thiel Sen Trend Tests, Assessment Monitoring

		Mann Kendall Trends		Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 12 most recent data points)									
				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)								Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)		
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year
CCR-AP-7	Antimony, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	26	3	0.352	NA	NA	NA	NA	NA	NA	NA	12	1	2020-03-30 to 2025-05-15	0.396	NA	NA	NA	NA	NA	NA	NA
WAP-1	Antimony, Total	Stable	No Trend	22	12	0.333	-0.0822	0.634	36.6	-17	NA	0.001	NA	12	9	2020-02-19 to 2025-05-16	0.376	0.313	0.188	81.2	20	NA	0.0007754	NA
WAP-2RR	Antimony, Total	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.298	NA	NA	NA	NA	NA	NA	NA	12	1	2020-02-18 to 2025-05-30	0.381	NA	NA	NA	NA	NA	NA	NA
WAP-3S	Antimony, Total	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.333	NA	NA	NA	NA	NA	NA	NA	12	1	2020-02-19 to 2025-05-30	0.443	NA	NA	NA	NA	NA	NA	NA
WAP-4S	Antimony, Total	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	1.33	NA	NA	NA	NA	NA	NA	NA	12	1	2020-02-19 to 2025-05-13	1.42	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Antimony, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.298	NA	NA	NA	NA	NA	NA	NA	12	0	2020-02-18 to 2025-05-13	0.385	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Arsenic, Total	Decreasing	No Trend	26	26	0.744	-0.403	0.00441	99.6	-130	-1.784e-06	0.007996	-0.0006511	12	12	2020-03-30 to 2025-05-15	1.02	-0.215	0.37	63	-14	NA	0.005352	NA
WAP-1	Arsenic, Total	Stable	Decreasing	22	22	0.779	-0.208	0.185	81.5	-48	NA	0.005904	NA	12	12	2020-02-19 to 2025-05-16	0.865	-0.515	0.0236	97.6	-34	-2.584e-06	0.007797	-0.0009431
WAP-2RR	Arsenic, Total	Increasing	No Trend	22	20	1.09	0.343	0.0277	97.2	79	2.902e-07	0.0007922	0.0001059	12	11	2020-02-18 to 2025-05-30	0.987	0.229	0.336	66.4	15	NA	0.0008614	NA
WAP-3S	Arsenic, Total	Decreasing	Stable	22	18	0.623	-0.371	0.0176	98.2	-85	-9.615e-07	0.003002	-0.000351	12	8	2020-02-19 to 2025-05-30	0.919	-0.0155	1	0	-1	NA	0.001185	NA
WAP-4S	Arsenic, Total	Increasing	Probably Increasing	22	22	0.861	0.528	0.000699	99.9	121	1.835e-06	0.003208	0.0006697	12	12	2020-02-19 to 2025-05-13	0.769	0.438	0.0612	93.9	28	NA	0.004218	NA
WAP-5S	Arsenic, Total	No Trend	No Trend	22	17	0.978	0.17	0.283	71.7	39	NA	0.0006424	NA	12	8	2020-02-18 to 2025-05-13	0.971	0.321	0.169	83.1	21	NA	0.0005383	NA
CCR-AP-7	Barium, Total	Decreasing	Stable	26	26	0.218	-0.353	0.016	98.4	-109	-1.13e-05	0.1421	-0.004124	12	12	2020-03-30 to 2025-05-15	0.247	-0.0801	0.78	22	-5	NA	0.11	NA
WAP-1	Barium, Total	Stable	Decreasing	22	22	0.326	-0.0132	0.955	4.5	-3	NA	0.455	NA	12	12	2020-02-19 to 2025-05-16	0.335	-0.532	0.0221	97.8	-34	-8.675e-05	0.5601	-0.03166
WAP-2RR	Barium, Total	Stable	No Trend	22	22	0.381	-0.11	0.497	50.3	-25	NA	0.0417	NA	12	12	2020-02-18 to 2025-05-30	0.452	0.171	0.49	51	11	NA	0.03234	NA
WAP-3S	Barium, Total	Decreasing	No Trend	22	22	0.831	-0.399	0.0103	99	-92	-7.95e-05	0.2129	-0.02902	12	12	2020-02-19 to 2025-05-30	1.37	0.0458	0.891	10.9	3	NA	0.03389	NA
WAP-4S	Barium, Total	Decreasing	Stable	22	22	0.146	-0.341	0.0313	96.9	-77	-3.971e-06	0.05867	-0.001449	12	12	2020-02-19 to 2025-05-13	0.13	-0.0155	1	0	-1	NA	0.054	NA
WAP-5S	Barium, Total	Decreasing	Probably Decreasing	22	22	0.141	-0.633	0.0000628	100	-142	-5.564e-06	0.05653	-0.002031	12	12	2020-02-18 to 2025-05-13	0.103	-0.408	0.0905	91	-25	NA	0.04756	NA
CCR-AP-7	Beryllium, Total	No Trend	Not Evaluated - Only one detected result.	26	7	0.386	0.169	0.291	70.9	40	NA	0.0005	NA	12	1	2020-03-30 to 2025-05-15	0.203	NA	NA	NA	NA	NA	NA	NA
WAP-1	Beryllium, Total	No Trend	No Trend	22	14	0.576	0.109	0.509	49.1	24	NA	0.0004899	NA	12	5	2020-02-19 to 2025-05-16	0.444	0.0172	1	0	1	NA	0.0005	NA
WAP-2RR	Beryllium, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	22	2	0.166	NA	NA	NA	NA	NA	NA	NA	12	1	2020-02-18 to 2025-05-30	0.167	NA	NA	NA	NA	NA	NA	NA
WAP-3S	Beryllium, Total	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	22	1	0.222	NA	NA	NA	NA	NA	NA	NA	12	0	2020-02-19 to 2025-05-30	0.151	NA	NA	NA	NA	NA	NA	NA
WAP-4S	Beryllium, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.109	NA	NA	NA	NA	NA	NA	NA	12	0	2020-02-19 to 2025-05-13	0.151	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Beryllium, Total	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	22	1	0.216	NA	NA	NA	NA	NA	NA	NA	12	0	2020-02-18 to 2025-05-13	0.151	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Cadmium, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	26	3	0.254	NA	NA	NA	NA	NA	NA	NA	12	1	2020-03-30 to 2025-05-15	0.294	NA	NA	NA	NA	NA	NA	NA
WAP-1	Cadmium, Total	No Trend	Stable	22	9	0.33	0.207	0.227	77.3	39	NA	0.0005	NA	12	3	2020-02-19 to 2025-05-16	0.236	-0.135	0.649	35.1	-6	NA	0.0005	NA
WAP-2RR	Cadmium, Total	Decreasing	Decreasing	22	20	0.358	-0.422	0.00721	99.3	-96	-6.709e-08	0.0004828	-2.449e-05	12	10	2020-02-18 to 2025-05-30	0.224	-0.615	0.00721	99.3	-40	-1.15e-07	0.0005025	-4.197e-05
WAP-3S	Cadmium, Total	Stable	Decreasing	22	13	0.504	-0.0672	0.702	29.8	-14	NA	0.00024	NA	12	4	2020-02-19 to 2025-05-30	0.474	-0.679	0.00655	99.3	-34	-1.686e-07	0.0005271	-6.155e-05
WAP-4S	Cadmium, Total	Probably Decreasing	Decreasing	22	6	0.37	-0.318	0.0705	93	-51	NA	0.0005	NA	12	4	2020-02-19 to 2025-05-13	0.454	-0.599	0.0169	98.3	-30	-1.037e-07	0.0005166	-3.785e-05
WAP-5S	Cadmium, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	22	2	0.24	NA	NA	NA	NA	NA	NA	NA	12	1	2020-02-18 to 2025-05-13	0.253	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Chromium, Total	No Trend	Not Evaluated - Only one detected result.	26	11	1.24	0.108	0.471	52.9	33	NA	0.00215	NA	12	1	2020-03-30 to 2025-05-15	0.702	NA	NA	NA	NA	NA	NA	NA
WAP-1	Chromium, Total	Probably Decreasing	Probably Decreasing	22	21	0.984	-0.305	0.0514	94.9	-70	NA	0.01226	NA	12	12	2020-02-19 to 2025-05-16	0.831	-0.412	0.0739	92.6	-27	NA	0.01149	NA
WAP-2RR	Chromium, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Majority of data (>75%) non-detect.	22	3	0.708	NA	NA	NA	NA	NA	NA	NA	12	2	2020-02-18 to 2025-05-30	0.639	NA	NA	NA	NA	NA	NA	NA
WAP-3S	Chromium, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	22	3	0.633	NA	NA	NA	NA	NA	NA	NA	12	1	2020-02-19 to 2025-05-30	0.622	NA	NA	NA	NA	NA	NA	NA
WAP-4S	Chromium, Total	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	22	1	0.683	NA	NA	NA	NA	NA	NA	NA	12	0	2020-02-19 to 2025-05-13	0.671	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Chromium, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.679	NA	NA	NA	NA	NA	NA	NA	12	0	2020-02-18 to 2025-05-13	0.671	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Cobalt, Total	Decreasing	No Trend	26	24	1.56	-0.433	0.00217	99.8	-140	-5.283e-07	0.001821	-0.0001928	12	10	2020-03-30 to 2025-05-15	1.53	-0.0303	0.945	5.5	-2	NA	0.0004514	NA
WAP-1	Cobalt, Total	Probably Decreasing	Decreasing	22	22	0.984	-0.278	0.0755	92.5	-64	NA	0.005154	NA	12	12	2020-02-19 to 2025-05-16	0.872	-0.485	0.0335	96.7	-32	-2.279e-06	0.005451	-0.0008317

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends. Units = milligrams per liter.

		Mann Kendall Trends		Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 12 most recent data points)									
				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)								Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)		
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year
WAP-2RR	Cobalt, Total	Stable	Stable	22	22	0.804	-0.18	0.258	74.2	-41	NA	0.002263	NA	12	12	2020-02-18 to 2025-05-30	0.929	-0.123	0.63	37	-8	NA	0.00301	NA
WAP-3S	Cobalt, Total	No Trend	Stable	22	22	0.472	0.157	0.323	67.7	36	NA	0.0006381	NA	12	12	2020-02-19 to 2025-05-30	0.395	-0.198	0.409	59.1	-13	NA	0.001359	NA
WAP-4S	Cobalt, Total	Stable	Decreasing	22	22	0.767	-0.125	0.443	55.7	-28	NA	0.001855	NA	12	12	2020-02-19 to 2025-05-13	0.142	-0.604	0.00982	99	-38	-2.718e-07	0.001997	-9.92e-05
WAP-5S	Cobalt, Total	Decreasing	Stable	22	22	0.281	-0.448	0.004	99.6	-103	-1.248e-06	0.00835	-0.0004553	12	12	2020-02-18 to 2025-05-13	0.229	-0.29	0.216	78.4	-19	NA	0.007253	NA
CCR-AP-7	Fluoride	Increasing	No Trend	25	25	0.371	0.372	0.0107	98.9	110	4.803e-05	0.2554	0.01753	12	12	2020-03-30 to 2025-05-15	0.323	0.0763	0.783	21.7	5	NA	0.3602	NA
WAP-1	Fluoride	No Trend	Stable	22	22	0.99	0.194	0.223	77.7	44	NA	0.2686	NA	12	12	2020-02-19 to 2025-05-16	0.934	-0.0458	0.891	10.9	-3	NA	0.4027	NA
WAP-2RR	Fluoride	Increasing	No Trend	22	22	0.319	0.467	0.00276	99.7	107	6.151e-05	0.1787	0.02245	12	12	2020-02-18 to 2025-05-30	0.193	0.137	0.582	41.8	9	NA	0.2668	NA
WAP-3S	Fluoride	Stable	Stable	22	22	0.293	-0.178	0.259	74.1	-41	NA	0.5601	NA	12	12	2020-02-19 to 2025-05-30	0.341	-0.321	0.169	83.1	-21	NA	0.6901	NA
WAP-4S	Fluoride	No Trend	No Trend	22	22	0.22	0.031	0.865	13.5	7	NA	0.215	NA	12	12	2020-02-19 to 2025-05-13	0.206	0.0308	0.945	5.5	2	NA	0.2083	NA
WAP-5S	Fluoride	Stable	No Trend	22	21	0.359	-0.0967	0.552	44.8	-22	NA	0.1011	NA	12	12	2020-02-18 to 2025-05-13	0.294	0.215	0.37	63	14	NA	0.08301	NA
CCR-AP-7	Lead, Total	Decreasing	No Trend	26	14	1.72	-0.325	0.0289	97.1	-96	-2.526e-07	0.001254	-9.221e-05	12	3	2020-03-30 to 2025-05-15	1.54	-0.0399	0.934	6.6	-2	NA	0.0005	NA
WAP-1	Lead, Total	Stable	Stable	22	22	0.953	-0.23	0.142	85.8	-53	NA	0.009845	NA	12	12	2020-02-19 to 2025-05-16	0.777	-0.333	0.15	85	-22	NA	0.00958	NA
WAP-2RR	Lead, Total	No Trend	No Trend	22	8	1.55	0.0222	0.921	7.9	4	NA	0.0005	NA	12	5	2020-02-18 to 2025-05-30	1.38	-0.128	0.644	35.6	-7	NA	0.0005	NA
WAP-3S	Lead, Total	No Trend	Stable	22	14	0.798	0.0774	0.646	35.4	17	NA	0.0005	NA	12	5	2020-02-19 to 2025-05-30	0.796	-0.327	0.185	81.5	-19	NA	0.0007157	NA
WAP-4S	Lead, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Majority of data (>75%) non-detect.	22	4	0.491	NA	NA	NA	NA	NA	NA	NA	12	2	2020-02-19 to 2025-05-13	0.645	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Lead, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Majority of data (>75%) non-detect.	22	2	0.435	NA	NA	NA	NA	NA	NA	NA	12	2	2020-02-18 to 2025-05-13	0.574	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Lithium, Total	Decreasing	No Trend	26	26	0.494	-0.384	0.00836	99.2	-119	-1.127e-06	0.01256	-0.0004114	12	12	2020-03-30 to 2025-05-15	0.268	0.0625	0.835	16.5	4	NA	0.009913	NA
WAP-1	Lithium, Total	Probably Decreasing	Stable	22	22	0.497	-0.281	0.0745	92.5	-64	NA	0.01112	NA	12	12	2020-02-19 to 2025-05-16	0.457	-0.273	0.244	75.6	-18	NA	0.01089	NA
WAP-2RR	Lithium, Total	Decreasing	Stable	22	22	0.468	-0.481	0.00207	99.8	-110	-9.529e-06	0.04138	-0.003478	12	12	2020-02-18 to 2025-05-30	0.343	-0.168	0.492	50.8	-11	NA	0.02872	NA
WAP-3S	Lithium, Total	Increasing	Probably Increasing	22	22	0.321	0.677	0.0000136	100	155	2.232e-05	0.05512	0.008147	12	12	2020-02-19 to 2025-05-30	0.243	0.45	0.0528	94.7	29	NA	0.07182	NA
WAP-4S	Lithium, Total	Decreasing	No Trend	22	14	0.839	-0.356	0.0269	97.3	-78	-1.951e-06	0.006444	-0.0007122	12	6	2020-02-19 to 2025-05-13	0.468	0.249	0.316	68.4	15	NA	0.002473	NA
WAP-5S	Lithium, Total	No Trend	No Trend	22	8	1.19	-0.214	0.197	80.3	-45	NA	0.002571	NA	12	4	2020-02-18 to 2025-05-13	0.29	0.254	0.313	68.7	15	NA	0.002479	NA
CCR-AP-7	Mercury, Total	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.468	NA	NA	NA	NA	NA	NA	NA	12	1	2019-10-23 to 2025-05-15	0.562	NA	NA	NA	NA	NA	NA	NA
WAP-1	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.312	NA	NA	NA	NA	NA	NA	NA	12	0	2018-12-05 to 2025-05-16	0.385	NA	NA	NA	NA	NA	NA	NA
WAP-2RR	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.312	NA	NA	NA	NA	NA	NA	NA	12	0	2018-12-05 to 2025-05-30	0.385	NA	NA	NA	NA	NA	NA	NA
WAP-3S	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.312	NA	NA	NA	NA	NA	NA	NA	12	0	2018-12-05 to 2025-05-30	0.385	NA	NA	NA	NA	NA	NA	NA
WAP-4S	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.306	NA	NA	NA	NA	NA	NA	NA	12	0	2019-10-25 to 2025-05-13	0.385	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.312	NA	NA	NA	NA	NA	NA	NA	12	0	2018-12-04 to 2025-05-13	0.385	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Molybdenum, Total	Decreasing	No Trend	26	24	0.859	-0.637	0.00000727	100	-204	-1.498e-06	0.004619	-0.0005468	12	10	2020-03-30 to 2025-05-15	0.293	0.0158	1	0	1	NA	0.00145	NA
WAP-1	Molybdenum, Total	No Trend	Increasing	22	17	0.464	0.00891	0.977	2.3	2	NA	0.0014	NA	12	8	2020-02-19 to 2025-05-16	0.478	0.465	0.0494	95.1	29	7.43e-07	0.001035	0.0002712
WAP-2RR	Molybdenum, Total	Increasing	No Trend	22	22	0.525	0.446	0.00432	99.6	102	2.017e-05	0.03561	0.007361	12	12	2020-02-18 to 2025-05-30	0.204	0.281	0.239	76.1	18	NA	0.06729	NA
WAP-3S	Molybdenum, Total	Decreasing	Decreasing	22	22	0.404	-0.413	0.00798	99.2	-95	-0.0002079	0.9829	-0.07589	12	12	2020-02-19 to 2025-05-30	0.409	-0.455	0.0467	95.3	-30	-0.0002864	0.9538	-0.1045
WAP-4S	Molybdenum, Total	Increasing	Stable	22	22	0.26	0.401	0.0109	98.9	91	4.112e-05	0.4053	0.01501	12	12	2020-02-19 to 2025-05-13	0.125	-0.109	0.678	32.2	-7	NA	0.4709	NA
WAP-5S	Molybdenum, Total	Increasing	Increasing	22	14	4.33	0.481	0.00284	99.7	104	4.116e-07	0.0007025	0.0001502	12	5	2020-02-18 to 2025-05-13	0.449	0.606	0.0136	98.6	33	9.282e-07	0.0009316	0.0003388
CCR-AP-7	Radium-226 & 228	Probably Decreasing	Increasing	23	15	0.638	-0.265	0.0813	91.9	-67	NA	1.032	NA	12	4	2020-03-30 to 2025-05-15	0.654	0.485	0.0335	96.7	32	0.0003646	0.2286	0.1331
WAP-1	Radium-226 & 228	No Trend	Stable	18	14	0.749	0.275	0.12	88	42	NA	0.8884	NA	12	10	2020-02-19 to 2025-05-16	0.692	-0.0606	0.837	16.3	-4	NA	1.432	NA
WAP-2RR	Radium-226 & 228	No Trend	No Trend	19	9	1.09	0.135	0.441	55.9	23	NA	0.3208	NA	12	6	2020-02-18 to 2025-05-30	1.02	-0.0303	0.945	5.5	-2	NA	0.4667	NA
WAP-3S	Radium-226 & 228	Stable	Stable	18	12	0.574	-0.00654	1	0	-1	NA	0.8592	NA	12	8	2020-02-19 to 2025-05-30	0.577	-0.152	0.537	46.3	-10	NA	1.077	NA
WAP-4S	Radium-226 & 228	No Trend	No Trend	19	6	1.14	0.17	0.327	67.3	29	NA	0.1135	NA	12	4	2020-02-19 to 2025-05-13	1.09	0.0303	0.945	5.5	2	NA	0.1919	NA
WAP-5S	Radium-226 & 228	No Trend	Stable	19	6	1.07	0.24	0.162	83.8	41	NA	0.1275	NA	12	5	2020-02-18 to 2025-05-13	0.945	-0.0303	0.945	5.5	-2	NA	0.2977	NA
CCR-AP-7	Selenium, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	24	3	0.24	NA	NA	NA	NA	NA	NA	NA	12	1	2019-10-23 to 2025-05-15	0.0343	NA	NA	NA	NA	NA	NA	NA
WAP-1	Selenium, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	20	2	0.0887	NA	NA	NA	NA	NA	NA	NA	12	0	2018-12-05 to 2025-05-16	0	NA	NA	NA	NA	NA	NA	NA
WAP-2RR	Selenium, Total	Probably Increasing	No Trend	20	9	0.483	0.338	0.0584	94.2	54	NA	0.0025	NA	12	9	2018-12-05 to 2025-05-30	0.483	0.219	0.367	63.3	14	NA	0.002433	NA
WAP-3S	Selenium, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	NA	NA	NA	12	0	2018-12-05 to 2025-05-30	0	NA	NA	NA	NA	NA	NA	NA
WAP-4S	Selenium, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	NA	NA	NA	12	0	2018-12-04 to 2025-05-13	0	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Selenium, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	NA	NA	NA	12	0	2018-12-04 to 2025-05-13	0	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Thallium, Total	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	26	4	0.372	NA	NA	NA	NA	NA	NA	NA	12	0	2020-03-30 to 2025-05-15	0.266	NA	NA	NA	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends. Units = milligrams per liter.

		Mann Kendall Trends		Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 12 most recent data points)									
				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)								Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)		
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year
WAP-1	**Thallium, Total**	No Trend	No Trend	**22**	**12**	**0.488**	**0.25**	**0.128**	**87.2**	**53**	**NA**	**0.0004296**	**NA**	12	4	2020-02-19 to 2025-05-16	0.38	0.128	0.644	35.6	7	NA	0.0005	NA
WAP-2RR	**Thallium, Total**	Increasing	Not Evaluated - Majority of data (>75%) non-detect.	**22**	**10**	**0.587**	**0.482**	**0.00367**	**99.6**	**97**	**1.39e-07**	**0.0002105**	**5.075e-05**	12	2	2020-02-18 to 2025-05-30	0.37	NA	NA	NA	NA	NA	NA	NA
WAP-3S	**Thallium, Total**	Not Evaluated - No detected results.	Not Evaluated - No detected results.	**22**	**0**	**0.204**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	12	0	2020-02-19 to 2025-05-30	0.266	NA	NA	NA	NA	NA	NA	NA
WAP-4S	**Thallium, Total**	Not Evaluated - No detected results.	Not Evaluated - No detected results.	**22**	**0**	**0.204**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	12	0	2020-02-19 to 2025-05-13	0.266	NA	NA	NA	NA	NA	NA	NA
WAP-5S	**Thallium, Total**	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	**22**	**2**	**0.307**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	12	0	2020-02-18 to 2025-05-13	0.266	NA	NA	NA	NA	NA	NA	NA

Note:

Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends. Units = milligrams per liter.

Table A-6. Confidence Intervals & SSL Identification, Assessment Monitoring

Confidence Interval (CI) Dataset												CI Calculation [a]				SSL Confirmation		Non-Parametric CI Statistics	
Location	Constituent	Units	n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	Overall Trend	Recent (12) Trend	Data handling	CI dataset distribution	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
WAP-3S	Lithium, Total	mg/L	12	0.12	0.033	0.0895	0.0892	0.0242	Increasing	Probably Increasing	Overall data trend, LCL calculation on recent (12) data	Normal	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	11	0.088	0.062	0.04	Yes, SSL	10000	0.0825
WAP-3S	Molybdenum, Total	mg/L	12	1.1	0.26	0.555	0.641	0.262	Decreasing	Decreasing	Overall and recent data trend, LCL calculation about the recent (12) trend line	Normal	Regression-based LCL with confidence limits (Parametric Test for Trending Data)	11	0.755	0.156	0.10	Yes, SSL	NA	NA
WAP-4S	Molybdenum, Total	mg/L	12	0.58	0.33	0.465	0.468	0.111	Increasing	Stable	Overall data trend, LCL calculation on recent (12) data	Not normal	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	11	0.47	0.42	0.10	Yes, SSL	10000	0.46

Note:

Confidence intervals are calculated for analyte/well pairs with GWPS exceedances in the event dataset.

[a] The 95% lower confience level (LCL) is compared to the Groundwater Protection Standard (GWPS) to confirm a statistically significant level (SSL). The 95% upper confidence level (UCL) is also shown for purposes of comparison.

Table A-5. Upper Tolerance Limits (UTLs) & Updated Groundwater Protection Standards (GWPS), Assessment Monitoring

		Interwell Background Data Characterization [a]												Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details			
Constituent	Units	n	n, non-detects	max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source	UTL calculation method	UTL calculation details	Minimum Coverage (%)	One-Sided tolerance factor (K)
Antimony, Total	mg/L	48	33	0.005	0.002	0.00173	0.002	2016-06-10	2025-05-16	0.000738	0.426	More than 50% NDs	Non-Parametric	NA - Original Data	0.005	No	0.006	0.006	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Arsenic, Total	mg/L	48	0	NA	0.025	0.0064	0.00485	2016-06-10	2025-05-16	0.00501	0.783	Decreasing	Parametric (lognormal trans)	Natural Logarithm	0.0241	NA	0.01	0.0241	UTL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Barium, Total	mg/L	48	0	NA	0.99	0.3	0.175	2016-06-10	2025-05-16	0.221	0.737	Stable	Non-Parametric	NA - Original Data	0.99	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Beryllium, Total	mg/L	48	27	0.001	0.0012	0.000726	0.001	2016-06-10	2025-05-16	0.000363	0.5	More than 50% NDs	Non-Parametric	NA - Original Data	0.0012	Yes	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Boron, Total	mg/L	47	33	0.2	0.58	0.094	0.08	2016-06-10	2025-05-16	0.0856	0.91	More than 50% NDs	Non-Parametric	NA - Original Data	0.58	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.8	NA
Cadmium, Total	mg/L	48	36	0.001	0.00049	0.000803	0.001	2016-06-10	2025-05-16	0.000334	0.415	More than 50% NDs	Non-Parametric	NA - Original Data	0.001	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Chromium, Total	mg/L	48	16	0.01	0.046	0.00782	0.005	2016-06-10	2025-05-16	0.0095	1.22	No Trend	Parametric (lognormal trans)	Natural Logarithm	0.0374	NA	0.1	0.1	MCL/RSL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Cobalt, Total	mg/L	48	2	0.002	0.019	0.00344	0.00155	2016-06-10	2025-05-16	0.00432	1.26	Decreasing	Parametric (lognormal trans)	Natural Logarithm	0.0215	NA	0.006	0.0215	UTL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Fluoride	mg/L	47	0	NA	2	0.385	0.29	2016-08-12	2025-05-16	0.313	0.812	Increasing	Non-Parametric	NA - Original Data	2	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.8	NA
Lead, Total	mg/L	48	12	0.003	0.035	0.00603	0.00285	2016-06-10	2025-05-16	0.00786	1.3	No Trend	Parametric (lognormal trans)	Natural Logarithm	0.0396	NA	0.015	0.0396	UTL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Lithium, Total	mg/L	48	0	NA	0.039	0.0125	0.011	2016-06-10	2025-05-16	0.00617	0.494	Decreasing	Non-Parametric	NA - Original Data	0.039	Yes	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Mercury, Total	mg/L	43	42	0.0005	0.00032	0.000217	0.0002	2016-06-10	2025-05-16	6.59e-05	0.304	More than 50% NDs	Non-Parametric	NA - Original Data	0.0005	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.3	NA
Molybdenum, Total	mg/L	48	7	0.005	0.013	0.00298	0.00185	2016-06-10	2025-05-16	0.00253	0.848	Decreasing	Parametric (lognormal trans)	Natural Logarithm	0.0105	NA	0.1	0.1	MCL/RSL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Radium-226 & 228	pCi/L	41	12	1.45	4.74	1.11	1.02	2016-06-10	2025-05-16	0.784	0.706	No Trend	Parametric (lognormal trans)	Natural Logarithm	3.68	NA	5	5	MCL/RSL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.12
Selenium, Total	mg/L	44	39	0.005	0.0028	0.0046	0.005	2016-06-10	2025-05-16	0.00116	0.253	More than 50% NDs	Non-Parametric	NA - Original Data	0.005	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.4	NA
Thallium, Total	mg/L	48	32	0.002	0.00063	0.000802	0.001	2016-06-10	2025-05-16	0.000436	0.544	More than 50% NDs	Non-Parametric	NA - Original Data	0.002	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA

Note:

[a] Interwell background datasets are analyte specific and include data collected from background wells (CCR-AP-7 and WAP-1). Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed. Presented values are in original (untransformed) units.

[b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.

[c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.

Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-7. Groundwater Protection Standard (GWPS) Comparison Table

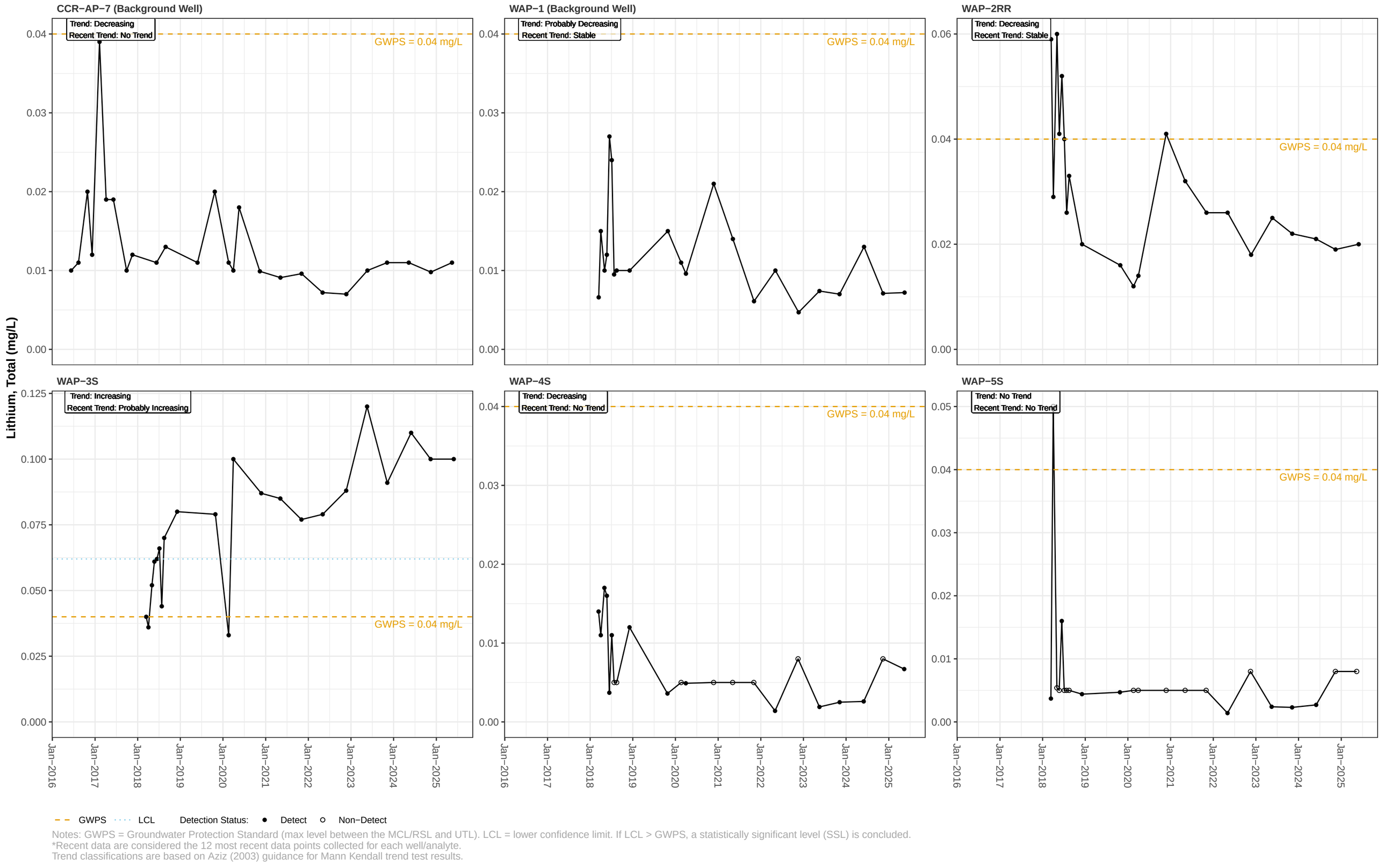
Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-3S	Lithium, Total	mg/L	2025-05-30	0.1	0.039	0.04	Yes	0.062	Yes
WAP-3S	Molybdenum, Total	mg/L	2025-05-30	0.4	0.0105	0.1	Yes	0.156	Yes
WAP-4S	Molybdenum, Total	mg/L	2025-05-13	0.42	0.0105	0.1	Yes	0.42	Yes
WAP-2RR	Antimony, Total	mg/L	2025-05-30	0.002 U	0.005	0.006	No	NA	No
WAP-3S	Antimony, Total	mg/L	2025-05-30	0.002 U	0.005	0.006	No	NA	No
WAP-4S	Antimony, Total	mg/L	2025-05-13	0.0006 J	0.005	0.006	No	NA	No
WAP-5S	Antimony, Total	mg/L	2025-05-13	0.002 U	0.005	0.006	No	NA	No
WAP-2RR	Arsenic, Total	mg/L	2025-05-30	0.0013 J	0.0241	0.0241	No	NA	No
WAP-3S	Arsenic, Total	mg/L	2025-05-30	0.00095 J	0.0241	0.0241	No	NA	No
WAP-4S	Arsenic, Total	mg/L	2025-05-13	0.0089	0.0241	0.0241	No	NA	No
WAP-5S	Arsenic, Total	mg/L	2025-05-13	0.00092 J	0.0241	0.0241	No	NA	No
WAP-2RR	Barium, Total	mg/L	2025-05-30	0.029	0.99	2	No	NA	No
WAP-3S	Barium, Total	mg/L	2025-05-30	0.045	0.99	2	No	NA	No
WAP-4S	Barium, Total	mg/L	2025-05-13	0.058	0.99	2	No	NA	No
WAP-5S	Barium, Total	mg/L	2025-05-13	0.044	0.99	2	No	NA	No
WAP-2RR	Beryllium, Total	mg/L	2025-05-30	0.001 U	0.0012	0.004	No	NA	No
WAP-3S	Beryllium, Total	mg/L	2025-05-30	0.001 U	0.0012	0.004	No	NA	No
WAP-4S	Beryllium, Total	mg/L	2025-05-13	0.001 U	0.0012	0.004	No	NA	No
WAP-5S	Beryllium, Total	mg/L	2025-05-13	0.001 U	0.0012	0.004	No	NA	No
WAP-2RR	Cadmium, Total	mg/L	2025-05-30	0.00037 J	0.001	0.005	No	NA	No
WAP-3S	Cadmium, Total	mg/L	2025-05-30	0.000093 J	0.001	0.005	No	NA	No
WAP-4S	Cadmium, Total	mg/L	2025-05-13	0.00015 J	0.001	0.005	No	NA	No
WAP-5S	Cadmium, Total	mg/L	2025-05-13	0.001 U	0.001	0.005	No	NA	No
WAP-2RR	Chromium, Total	mg/L	2025-05-30	0.005 U	0.0374	0.1	No	NA	No
WAP-3S	Chromium, Total	mg/L	2025-05-30	0.005 U	0.0374	0.1	No	NA	No
WAP-4S	Chromium, Total	mg/L	2025-05-13	0.005 U	0.0374	0.1	No	NA	No
WAP-5S	Chromium, Total	mg/L	2025-05-13	0.005 U	0.0374	0.1	No	NA	No
WAP-2RR	Cobalt, Total	mg/L	2025-05-30	0.0014	0.0215	0.0215	No	NA	No
WAP-3S	Cobalt, Total	mg/L	2025-05-30	0.00089 J	0.0215	0.0215	No	NA	No
WAP-4S	Cobalt, Total	mg/L	2025-05-13	0.0014	0.0215	0.0215	No	NA	No
WAP-5S	Cobalt, Total	mg/L	2025-05-13	0.0051	0.0215	0.0215	No	NA	No
WAP-2RR	Fluoride	mg/L	2025-05-30	0.25 J+	2	4	No	NA	No
WAP-3S	Fluoride	mg/L	2025-05-30	0.38 J+	2	4	No	NA	No
WAP-4S	Fluoride	mg/L	2025-05-13	0.15 J+	2	4	No	NA	No
WAP-5S	Fluoride	mg/L	2025-05-13	0.12 J+	2	4	No	NA	No
WAP-2RR	Lead, Total	mg/L	2025-05-30	0.001 U	0.0396	0.0396	No	NA	No
WAP-3S	Lead, Total	mg/L	2025-05-30	0.001 U	0.0396	0.0396	No	NA	No
WAP-4S	Lead, Total	mg/L	2025-05-13	0.001 U	0.0396	0.0396	No	NA	No
WAP-5S	Lead, Total	mg/L	2025-05-13	0.001 U	0.0396	0.0396	No	NA	No
WAP-2RR	Lithium, Total	mg/L	2025-05-30	0.02	0.039	0.04	No	NA	No
WAP-4S	Lithium, Total	mg/L	2025-05-13	0.0067 J	0.039	0.04	No	NA	No
WAP-5S	Lithium, Total	mg/L	2025-05-13	0.008 U	0.039	0.04	No	NA	No
WAP-2RR	Mercury, Total	mg/L	2025-05-30	0.0002 U	0.0005	0.002	No	NA	No
WAP-3S	Mercury, Total	mg/L	2025-05-30	0.0002 U	0.0005	0.002	No	NA	No
WAP-4S	Mercury, Total	mg/L	2025-05-13	0.0002 U	0.0005	0.002	No	NA	No
WAP-5S	Mercury, Total	mg/L	2025-05-13	0.0002 U	0.0005	0.002	No	NA	No
WAP-2RR	Molybdenum, Total	mg/L	2025-05-30	0.079	0.0105	0.1	No	NA	No
WAP-5S	Molybdenum, Total	mg/L	2025-05-13	0.005 U	0.0105	0.1	No	NA	No
WAP-2RR	Radium-226 & 228	pCi/L	2025-05-30	0.796	3.68	5	No	NA	No
WAP-3S	Radium-226 & 228	pCi/L	2025-05-30	1.02	3.68	5	No	NA	No
WAP-4S	Radium-226 & 228	pCi/L	2025-05-13	0.471 UJ	3.68	5	No	NA	No
WAP-5S	Radium-226 & 228	pCi/L	2025-05-13	0.624 U	3.68	5	No	NA	No
WAP-2RR	Selenium, Total	mg/L	2025-05-30	0.0039 J	0.005	0.05	No	NA	No
WAP-3S	Selenium, Total	mg/L	2025-05-30	0.005 U	0.005	0.05	No	NA	No
WAP-4S	Selenium, Total	mg/L	2025-05-13	0.005 U	0.005	0.05	No	NA	No
WAP-5S	Selenium, Total	mg/L	2025-05-13	0.005 U	0.005	0.05	No	NA	No

Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-2RR	Thallium, Total	mg/L	2025-05-30	0.001 U	0.002	0.002	No	NA	No
WAP-3S	Thallium, Total	mg/L	2025-05-30	0.001 U	0.002	0.002	No	NA	No
WAP-4S	Thallium, Total	mg/L	2025-05-13	0.001 U	0.002	0.002	No	NA	No
WAP-5S	Thallium, Total	mg/L	2025-05-13	0.001 U	0.002	0.002	No	NA	No

Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

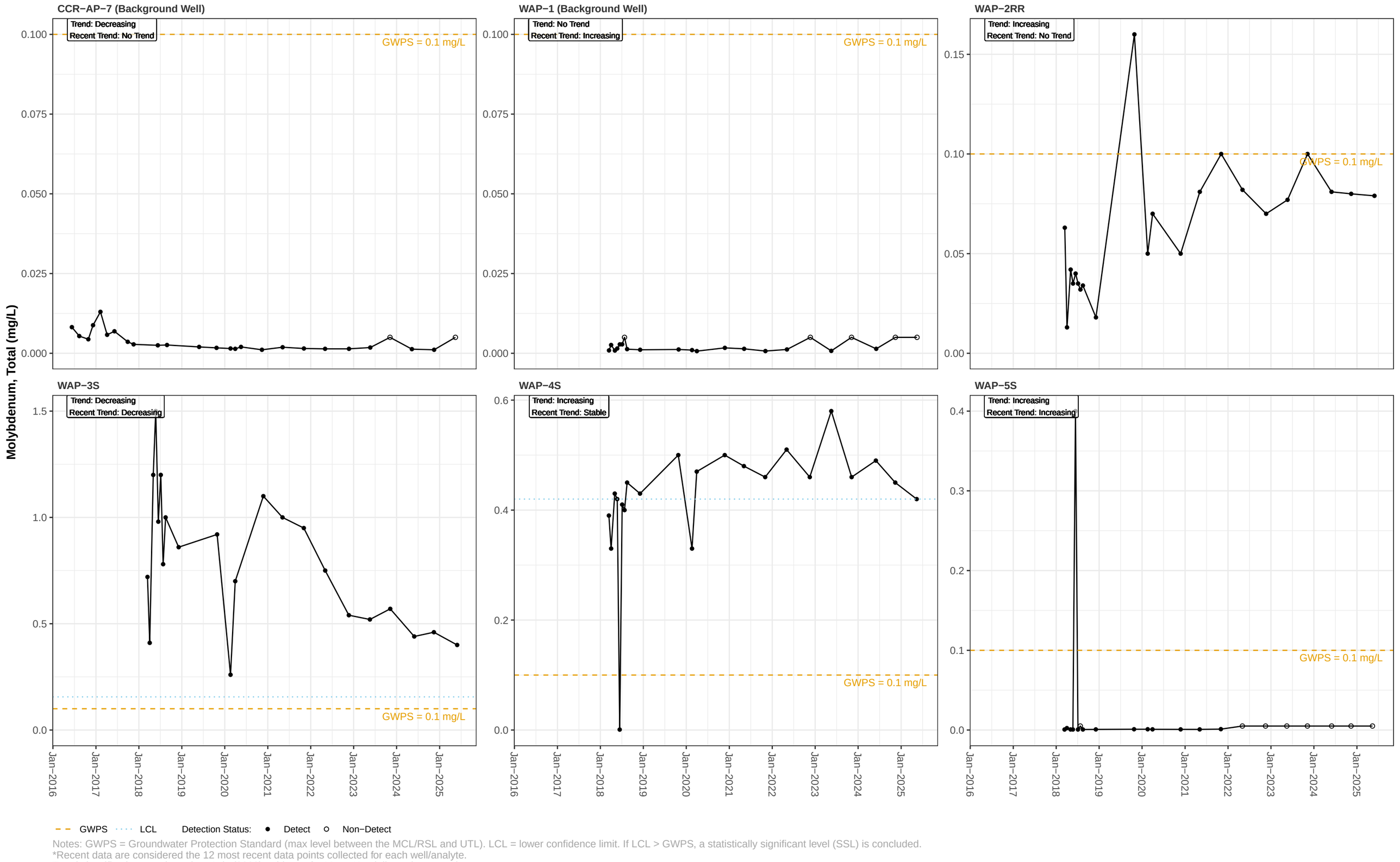
Assessment Monitoring Trend Analysis for Lithium, Total



GWPS LCL Detection Status: Detect Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 12 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Assessment Monitoring Trend Analysis for Molybdenum, Total



Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 12 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

HALEY & ALDRICH, INC.
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864.214.8771

TECHNICAL MEMORANDUM

February 23, 2026
File No. 0129420-032

TO: Southern Indiana Gas and Electric Company

FROM: Haley & Aldrich, Inc.
Cassidy Sutherland, P.G., Senior Project Manager, Geologist
Steven F. Putrich, P.E., Project Principal

SUBJECT: Statistical Evaluation of the November 2025 Semi-annual Groundwater Assessment Monitoring Data
Southern Indiana Gas and Electric Company
Former West Ash Pond
F.B. Culley Generating Station

Pursuant to Title 40 Code of Federal Regulations (40 CFR) § 257.93 and § 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the November 2025 semi-annual assessment monitoring event for the F.B. Culley Generating Station West Ash Pond (WAP). Haley & Aldrich, Inc. (Haley & Aldrich) completed this statistical evaluation to determine if Appendix IV groundwater monitoring constituents have been detected in downgradient wells at statistically significant levels (SSL) greater than the Groundwater Protection Standards (GWPS), consistent with the requirements in 40 CFR § 257.95.

Methods used during this statistical analysis are described in Haley & Aldrich's 2017 *Statistical Data Analysis Plan for the F.B. Culley Generating Station*. A summary of how applicable performance standards described in 40 CFR § 257.93 (g) were achieved include:

- 40 CFR § 257.93 (g) (1) – Data set distribution was evaluated using basic summary statistics, graphical methods including probability plots, and the Shapiro-Wilk Test for Normality. Data sets were also evaluated for statistical outliers using box plots and either Dixon's Q Test for Outliers or Rosner's Outlier Test depending on sample size. Outlier identification and data set distribution groups are summarized in Attachment A. For background limit calculations, parametric methods were used for normally distributed data sets and non-parametric methods were used for non-normally distributed data sets.
- 40 CFR § 257.93 (g) (2) – Not applicable

- 40 CFR § 257.93 (g) (3) – Not applicable
- 40 CFR § 257.93 (g) (4) – Levels of confidence and additional supporting information for the use of tolerance intervals and prediction limits are included in Attachment A.
- 40 CFR § 257.93 (g) (5) – Non-detect values were accounted for by simple substitution, where the detection limit replaced the non-detect result. Non-detect values are identified and summarized in Attachment A.
- 40 CFR § 257.93 (g) (6) – Time series plots for groundwater monitoring wells included in this evaluation were reviewed to identify potential seasonal variability. No additional statistics to account for seasonality or spatial variability were necessary. Temporal trends were evaluated using the non-parametric Mann-Kendall Trend Test and Theil-Sen Estimator.

Data from the groundwater sampling event for the downgradient monitoring wells (WAP-2RR, WAP-3S, WAP-4S and WAP-5S) were compared to the GWPS established from the background dataset for the upgradient monitoring wells (WAP-1 and CCR-AP-7) for detected Appendix IV constituents. November 2025 analytical results are summarized in Table 1. GWPS for each of the Appendix IV constituents have been set equal to the highest value of the maximum contaminant level (MCL), regional screening level (RSL), or background concentration. The results of the assessment monitoring statistical evaluation are discussed below and provided in Attachment A.

Development of Groundwater Protection Standard

The Rule provides four specific options for statistical evaluation of groundwater quality data collected at a coal combustion residual (CCR) unit (40 CFR §257.93(f) (1-4)). Haley & Aldrich certified the tolerance limit (TL) as the statistical method used for developing BTVs for the GWPS on January 14, 2019. As noted above, the GWPS for each of the Appendix IV constituents have been set equal to the highest value of the MCL, RSL, or BTV (TL). The most recent groundwater sampling result from each compliance well was compared to the GWPS to determine if additional statistical testing is warranted.

STATISTICAL EVALUATION

BTVs are periodically updated per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (Unified Guidance). Prior to calculating BTVs, data were evaluated for outlier results, data distribution, and spatial and temporal variability. Potential outlier sample results that would warrant removal from the data set based on likely error in sampling or measurement were identified through statistical outlier using the outliers (version 0.15) R programming package and either the Dixon's or Rosner's Test for Outliers. Potential outliers were further evaluated by visual inspection of box plots and probability plots, and field forms and analytical laboratory reports were reviewed as necessary. No sample data were identified as outliers that warranted removal from the dataset.

Background data distributions were assessed using the stats (version 4.3.3) R programming package and either the Shapiro-Wilk or Shapiro-Francia Test for Normality. Data distributions were further evaluated

by visual inspection of probability and distribution plots. Data distributions inform appropriate BTV calculation methods. Background and downgradient data sets were evaluated for spatial and temporal variability by visual inspection of box plots and time series plots and using the Mann-Kendall Trend Tests (Kendall R programming package, version 2.2.1) and Theil-Sen Estimator (trend R programming package, version 1.1.6). Spatial and temporal variability in background data sets inform appropriate BTV calculation methods.

INTERWELL BACKGROUND EVALUATION

An interwell statistical evaluation was used to determine the TL and identify potential SSLs for detected Appendix IV constituents. The interwell evaluation compares the most recent value from downgradient compliance wells to a background dataset composed of pooled upgradient well data. TLs were calculated from the pooled background well dataset utilizing R programming language and the EnvStats (version 2.8.1) and tolerance (version 2.0.0) packages. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the UTL. Depending on the data distribution, parametric or non-parametric TL procedures are used. Parametric TLs utilize normally distributed data or data normalized via a transformation of the background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

GWPS COMPARISON AND LCL CALCULATIONS

A lower confidence limit (LCL) was calculated for any Appendix IV constituent measured in a downgradient well during the November 2025 sampling event at a concentration greater than the GWPS. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error. An SSL is indicated when the downgradient well/constituent-specific LCL is greater than the GWPS.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the November 2025 assessment monitoring event were compared to their respective GWPS (Attachment A). LCLs were calculated where constituents were detected at concentrations greater than a GWPS. An SSL is indicated when the LCL is greater than the GWPS. SSLs are summarized in the table below. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for all downgradient wells and constituents. Based on this statistical evaluation, lithium, and molybdenum remain as the only Appendix IV constituent SSLs downgradient of the WAP. This information is provided for Southern Indiana Gas and Electric Company’s records.

Because no new constituents were identified as SSLs, additional notification pertaining to the statistical analysis of the November 2025 groundwater analytical results is not required at this time.

Statistically Significant Level Summary - Appendix IV Constituents			
Location	**Constituent**	**November 2025 Concentration (mg/L)**	**Newly Identified SSL**
WAP-3S	Lithium, Total	0.13	No
WAP-3S	Molybdenum, Total	0.39	No
WAP-4S	Molybdenum, Total	0.51	No
Notes: mg/L = milligrams per liter			

TREND SUMMARY

Mann-Kendall trend analyses were performed on data sets from downgradient wells of sufficient sample size as described above. Results of the trend analysis are summarized in Table 2. Trends indicated for constituents identified as SSLs are summarized below:

- Lithium in WAP-3S is increasing (trend confirmed by Thiel-Sen test, Sen's slope)
- Molybdenum in WAP-3S is decreasing
- Molybdenum in WAP-4S is increasing (trend confirmed by Thiel-Sen test), however a stable trend was identified in recent data (samples collected between March 2020 and November 2025)

Enclosure

Table 1. Summary of Groundwater Quality Data - November 2025
Table 2. Trend Summary

Attachment A – Assessment Monitoring Statistical Analysis Summary

TABLES

TABLE 1
SUMMARY OF GROUNDWATER QUALITY DATA - NOVEMBER 2025
F.B. CULLEY GENERATING STATION
FORMER WEST ASH POND
WARRICK COUNTY, INDIANA

Location Group	Action Level	Background		Downgradient			
Location Name	GWPS	CCR-AP-7	WAP-1	WAP-2RR	WAP-3S	WAP-4S	WAP-5S
Sample Name		CCR-AP-7-111325	WAP-1-111325	WAP-2RR-111225	WAP-3S-111225	WAP-4S-111125	WAP-5S-111125
Sample Date		11/13/2025	11/13/2025	11/12/2025	11/12/2025	11/11/2025	11/11/2025
Lab Sample ID		180-198516-22	180-198516-1	180-198516-2	180-198516-3	180-198516-5	180-198516-8
Detection Monitoring - Appendix III Constituents (mg/L)							
Boron, Total	4	0.05 U	**0.11 J+**	**2.1**	**4.5**	**11**	**5.8**
Calcium, Total	NA	**130**	**220**	**100**	**160**	**240**	**230**
Chloride	NA	**43**	**91**	**38**	**65**	**82**	**55**
Fluoride	4	**0.29**	**0.18**	**0.28**	**0.37**	**0.22**	**0.1**
pH (lab) (pH units)	NA	**7.2 J**	**7.2 J**	**6.9 J**	**7.8 J**	**7.5 J**	**6.9 J**
Sulfate	NA	**93**	**400**	**110**	**330**	**330**	**520**
Total Dissolved Solids (TDS)	NA	**620**	**1100**	**530**	**820**	**1000**	**1200**
Assessment Monitoring - Appendix IV Constituents (mg/L)							
Antimony, Total	0.006	0.002 U	**0.0055**	0.002 U	0.002 U	0.002 U	0.002 U
Arsenic, Total	0.025	**0.0048 J**	**0.011**	**0.0013 J**	**0.00084 J**	**0.0076**	**0.0021 J**
Barium, Total	2	**0.13**	**0.64**	**0.044**	**0.062**	**0.048**	**0.047**
Beryllium, Total	0.004	0.001 U	**0.0011**	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium, Total	0.005	**0.00016 J**	**0.00076 J**	**0.00024 J**	0.001 U	0.001 U	0.001 U
Chromium, Total	0.1	0.005 U	**0.024**	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt, Total	0.019	0.001 U	**0.014**	**0.00082 J**	**0.00094 J**	**0.0013**	**0.0072**
Fluoride	4	**0.29**	**0.18**	**0.28**	**0.37**	**0.22**	**0.1**
Lead, Total	0.035	**0.00054 J**	**0.029**	0.001 U	0.001 U	0.001 U	0.001 U
Lithium, Total	0.04	**0.0093**	**0.019**	**0.017**	**0.13**	0.008 U	0.008 U
Mercury, Total	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum, Total	0.1	**0.0015 J**	**0.0026 J**	**0.061**	**0.39**	**0.51**	0.005 U
Selenium, Total	0.05	**0.0012 J**	**0.0033 J**	**0.006**	0.005 U	0.005 U	0.005 U
Thallium, Total	0.002	**0.00052 J**	**0.0014**	0.001 U	0.001 U	0.001 U	0.001 U
Radiological (pCi/L)							
Radium-226	NA	0.132 U ± 0.178	0.11 U ± 0.285	0.176 U ± 0.144	**0.481 ± 0.198**	0.0933 U ± 0.156	**0.341 ± 0.217**
Radium-228	NA	**0.796 ± 0.504**	0.527 UJ ± 1.02	0.49 UJ ± 0.485	0.607 UJ ± 0.462	0.667 UJ ± 0.549	0.201 UJ ± 0.548
Radium-226 & 228	5	**0.928 J ± 0.535**	0.637 U ± 1.06	0.666 U ± 0.506	**1.09 J ± 0.503**	0.761 U ± 0.571	0.542 UJ ± 0.589
Field Parameters							
Temperature (Deg C)	NA	**18.85**	**19.33**	**24.06**	**17.95**	**16.62**	**17.06**
Dissolved Oxygen, Field (mg/L)	NA	**0.94**	**11.31**	**0.23**	**0.39**	**1.15**	**1**
Conductivity, Field (mS/cm)	NA	**0.744**	**1.08**	**0.565**	**0.87**	**1.08**	**5.49**
Oxidation Reduction Potential (ORP), Field (mv)	NA	**-118**	**-63**	**132**	**-90**	**-111**	**60**
Turbidity, Field (NTU)	NA	**0**	**434**	**0**	**0**	**0.5**	**0**
pH, Field (pH units)	NA	**6.59**	**6.53**	**6.5**	**7.47**	**7.14**	**5.83**

NOTES:
CCR = Coal Combustion Residuals.
mg/L = milligram per liter.
pCi/L = picoCurie per liter.
Deg C = Degrees Celsius.
mS/cm = milliSiemen per centimeter
mv = millivolts
NTU = Nephelometric Turbidity Units
NA = not available
USEPA = United States Environmental Protection Agency.
GWPS = Ground Water Protection Standard.

Qualifiers:
J: value is estimated
J+: value is estimated with a potential high bias
U: not detected, value is the laboratory reporting limit
U: activity level below the Minimum Detectable Concentration (Radiological)

*Results in **bold** are detected.*
Shaded values indicate a GWPS exceedance
- USEPA. 2020. Final Rule: Disposal of Coal Combustion Residuals from Electric Utilities. July 26. 40 CFR Part 257. https://www.epa.gov/coalash/coal-ash-rule

Table 2. Trend Summary

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (rate of change per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (rate of change per year)
CCR-AP-7	Antimony, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	27	3	0.0025	NA	12	1	0.0025	NA
WAP-1	Antimony, Total	mg/L	No Trend	No Trend	23	13	0.0055	NA	12	9	0.0055	NA
WAP-2RR	Antimony, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.0025	NA	12	1	0.0025	NA
WAP-3S	Antimony, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.0025	NA	12	1	0.0025	NA
WAP-4S	Antimony, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.01	NA	12	1	0.01	NA
WAP-5S	Antimony, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.0025	NA	12	0	0.0025	NA
CCR-AP-7	Arsenic, Total	mg/L	Decreasing	Stable	27	27	0.018	-0.000545	12	12	0.015	NA
WAP-1	Arsenic, Total	mg/L	Stable	Stable	23	23	0.025	NA	12	12	0.025	NA
WAP-2RR	Arsenic, Total	mg/L	Increasing	No Trend	23	21	0.0078	9.88e-05	12	11	0.0078	NA
WAP-3S	Arsenic, Total	mg/L	Decreasing	Stable	23	19	0.0064	-0.000298	12	8	0.0064	NA
WAP-4S	Arsenic, Total	mg/L	Increasing	No Trend	23	23	0.027	0.00063	12	12	0.027	NA
WAP-5S	Arsenic, Total	mg/L	No Trend	No Trend	23	18	0.005	NA	12	8	0.005	NA
CCR-AP-7	Barium, Total	mg/L	Decreasing	No Trend	27	27	0.19	-0.0037	12	12	0.19	NA
WAP-1	Barium, Total	mg/L	No Trend	Stable	23	23	0.99	NA	12	12	0.99	NA
WAP-2RR	Barium, Total	mg/L	Stable	No Trend	23	23	0.086	NA	12	12	0.086	NA
WAP-3S	Barium, Total	mg/L	Decreasing	No Trend	23	23	0.39	-0.0264	12	12	0.33	NA
WAP-4S	Barium, Total	mg/L	Decreasing	Stable	23	23	0.08	-0.00142	12	12	0.069	NA
WAP-5S	Barium, Total	mg/L	Decreasing	Stable	23	23	0.063	-0.00183	12	12	0.052	NA
CCR-AP-7	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	27	7	0.00075	NA	12	1	0.0005	NA
WAP-1	Beryllium, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect.	23	15	0.0012	NA	12	5	0.0011	NA
WAP-2RR	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	23	2	0.0005	NA	12	1	0.0005	NA
WAP-3S	Beryllium, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.0005	NA	12	0	0.0005	NA
WAP-4S	Beryllium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.0005	NA	12	0	0.0005	NA
WAP-5S	Beryllium, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.0005	NA	12	0	0.0005	NA
CCR-AP-7	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	27	4	0.0005	NA	12	2	0.0005	NA
WAP-1	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	10	0.00076	NA	12	4	0.00076	NA
WAP-2RR	Cadmium, Total	mg/L	Decreasing	Decreasing	23	21	0.001	-2.56e-05	12	11	0.00053	-4.38e-05
WAP-3S	Cadmium, Total	mg/L	Stable	Not Evaluated - Majority of data (>50%) non-detect.	23	13	0.0005	NA	12	4	0.0005	NA
WAP-4S	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	6	0.0005	NA	12	4	0.0005	NA
WAP-5S	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	23	2	0.0005	NA	12	1	0.0005	NA
CCR-AP-7	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	27	11	0.019	NA	12	1	0.0062	NA
WAP-1	Chromium, Total	mg/L	Stable	Stable	23	22	0.046	NA	12	12	0.027	NA
WAP-2RR	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	3	0.0057	NA	12	2	0.0057	NA

Abbreviations: mg/L = milligrams per liter; n = sample count

Notes: *Recent data defined as the 12 most recent data points. MK = Mann Kendall Trend Test. Identified trends were classified based on Aziz (2003) guidance and Mann-Kendall Trend Test Results. Thiel-Sen slope only calculated for increasing or decreasing trends.

			Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
Location	Chemical	Units	Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (rate of change per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (rate of change per year)
WAP-3S	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	23	3	0.005	NA	12	1	0.005	NA
WAP-4S	Chromium, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.005	NA	12	0	0.005	NA
WAP-5S	Chromium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.005	NA	12	0	0.005	NA
CCR-AP-7	Cobalt, Total	mg/L	Decreasing	No Trend	27	24	0.015	-0.00018	12	9	0.0049	NA
WAP-1	Cobalt, Total	mg/L	Stable	Stable	23	23	0.019	NA	12	12	0.014	NA
WAP-2RR	Cobalt, Total	mg/L	Stable	Decreasing	23	23	0.0097	NA	12	12	0.0097	-0.000468
WAP-3S	Cobalt, Total	mg/L	No Trend	Probably Decreasing	23	23	0.0018	NA	12	12	0.0018	NA
WAP-4S	Cobalt, Total	mg/L	Stable	Decreasing	23	23	0.0093	NA	12	12	0.0023	-0.0001
WAP-5S	Cobalt, Total	mg/L	Decreasing	Stable	23	23	0.0094	-0.000374	12	12	0.0088	NA
CCR-AP-7	Fluoride	mg/L	Increasing	Stable	26	26	0.72	0.0133	12	12	0.72	NA
WAP-1	Fluoride	mg/L	No Trend	Stable	23	23	2	NA	12	12	2	NA
WAP-2RR	Fluoride	mg/L	Increasing	Stable	23	23	0.4	0.0194	12	12	0.4	NA
WAP-3S	Fluoride	mg/L	Stable	Decreasing	23	23	0.77	NA	12	12	0.76	-0.0741
WAP-4S	Fluoride	mg/L	No Trend	Stable	23	23	0.28	NA	12	12	0.28	NA
WAP-5S	Fluoride	mg/L	Stable	No Trend	23	22	0.21	NA	12	12	0.13	NA
CCR-AP-7	Lead, Total	mg/L	Decreasing	Not Evaluated - Majority of data (>50%) non-detect.	27	15	0.02	-9.02e-05	12	4	0.006	NA
WAP-1	Lead, Total	mg/L	Stable	Stable	23	23	0.035	NA	12	12	0.029	NA
WAP-2RR	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	8	0.0064	NA	12	5	0.0056	NA
WAP-3S	Lead, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect.	23	14	0.0027	NA	12	4	0.0027	NA
WAP-4S	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	4	0.0015	NA	12	2	0.0015	NA
WAP-5S	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	2	0.0015	NA	12	2	0.0015	NA
CCR-AP-7	Lithium, Total	mg/L	Decreasing	No Trend	27	27	0.039	-0.000401	12	12	0.018	NA
WAP-1	Lithium, Total	mg/L	Stable	Stable	23	23	0.027	NA	12	12	0.021	NA
WAP-2RR	Lithium, Total	mg/L	Decreasing	Decreasing	23	23	0.06	-0.0033	12	12	0.041	-0.00248
WAP-3S	Lithium, Total	mg/L	Increasing	Probably Increasing	23	23	0.13	0.00879	12	12	0.13	NA
WAP-4S	Lithium, Total	mg/L	Probably Decreasing	No Trend	23	14	0.017	NA	12	6	0.0067	NA
WAP-5S	Lithium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	8	0.025	NA	12	4	0.004	NA
CCR-AP-7	Mercury, Total	mg/L	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	24	1	0.00032	NA	12	1	0.00032	NA
WAP-1	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.00025	NA	12	0	0.00025	NA
WAP-2RR	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.00025	NA	12	0	0.00025	NA
WAP-3S	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.00025	NA	12	0	0.00025	NA
WAP-4S	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.00025	NA	12	0	0.00025	NA
WAP-5S	Mercury, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.00025	NA	12	0	0.00025	NA
CCR-AP-7	Molybdenum, Total	mg/L	Decreasing	Stable	27	25	0.013	-0.000516	12	10	0.0025	NA
WAP-1	Molybdenum, Total	mg/L	No Trend	Increasing	23	18	0.0028	NA	12	8	0.0026	0.000268
WAP-2RR	Molybdenum, Total	mg/L	Increasing	Stable	23	23	0.16	0.00663	12	12	0.1	NA
WAP-3S	Molybdenum, Total	mg/L	Decreasing	Decreasing	23	23	1.5	-0.0759	12	12	1.1	-0.112
WAP-4S	Molybdenum, Total	mg/L	Increasing	Stable	23	23	0.58	0.0139	12	12	0.58	NA
WAP-5S	Molybdenum, Total	mg/L	Increasing	Not Evaluated - Majority of data (>50%) non-detect.	23	14	0.4	0.000151	12	4	0.0025	NA

Abbreviations: mg/L = milligrams per liter; n = sample count

Notes: *Recent data defined as the 12 most recent data points. MK = Mann Kendall Trend Test. Identified trends were classified based on Aziz (2003) guidance and Mann-Kendall Trend Test Results. Thiel-Sen slope only calculated for increasing or decreasing trends.

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (rate of change per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (rate of change per year)
CCR-AP-7	Radium-226 & 228	mg/L	Stable	Not Evaluated - Majority of data (>50%) non-detect.	24	16	1.72	NA	12	5	0.928	NA
WAP-1	Radium-226 & 228	mg/L	No Trend	Stable	19	14	4.74	NA	12	9	4.74	NA
WAP-2RR	Radium-226 & 228	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Stable	20	9	2.15	NA	12	6	2.15	NA
WAP-3S	Radium-226 & 228	mg/L	No Trend	Stable	19	13	1.38	NA	12	8	1.38	NA
WAP-4S	Radium-226 & 228	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	20	6	1.86	NA	12	4	1.86	NA
WAP-5S	Radium-226 & 228	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	20	6	1.49	NA	12	5	1.49	NA
CCR-AP-7	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	25	4	0.0028	NA	12	2	0.0028	NA
WAP-1	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	21	3	0.0033	NA	12	1	0.0033	NA
WAP-2RR	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	No Trend	21	10	0.0071	NA	12	10	0.0071	NA
WAP-3S	Selenium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.0025	NA	12	0	0.0025	NA
WAP-4S	Selenium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.0025	NA	12	0	0.0025	NA
WAP-5S	Selenium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.0025	NA	12	0	0.0025	NA
CCR-AP-7	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	27	5	0.001	NA	12	1	0.001	NA
WAP-1	Thallium, Total	mg/L	Increasing	Not Evaluated - Majority of data (>50%) non-detect.	23	13	0.0014	3.76e-05	12	5	0.0014	NA
WAP-2RR	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	10	0.001	NA	12	2	0.001	NA
WAP-3S	Thallium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.001	NA	12	0	0.001	NA
WAP-4S	Thallium, Total	mg/L	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.001	NA	12	0	0.001	NA
WAP-5S	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - No detected results.	23	2	0.001	NA	12	0	0.001	NA

Abbreviations: mg/L = milligrams per liter; n = sample count

Notes: *Recent data defined as the 12 most recent data points. MK = Mann Kendall Trend Test. Identified trends were classified based on Aziz (2003) guidance and Mann-Kendall Trend Test Results. Thiel-Sen slope only calculated for increasing or decreasing trends.

ATTACHMENT A
Assessment Monitoring Statistical Analysis Summary

Table A-1. Descriptive Statistics

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	variance	reporting limit range	date range
CCR-AP-7	Antimony, Total	mg/L	27	24	89	0.0050	0.000160	0.0019485	0.002	7.7e-04	6.0e-07	0.002 - 0.005	2016-06-10 to 2025-11-13
WAP-1	Antimony, Total	mg/L	23	10	43	0.0055	0.000450	0.0016548	0.002	1.0e-03	1.0e-06	0.002 - 0.002	2018-03-15 to 2025-11-13
WAP-2RR	Antimony, Total	mg/L	23	22	96	0.0050	0.001100	0.0020913	0.002	6.6e-04	4.4e-07	0.002 - 0.005	2018-03-15 to 2025-11-12
WAP-3S	Antimony, Total	mg/L	23	22	96	0.0050	0.000430	0.0020622	0.002	7.2e-04	5.2e-07	0.002 - 0.005	2018-03-15 to 2025-11-12
WAP-4S	Antimony, Total	mg/L	23	22	96	0.0200	0.000600	0.0028522	0.002	3.8e-03	1.4e-05	0.002 - 0.02	2018-03-14 to 2025-11-11
WAP-5S	Antimony, Total	mg/L	23	23	100	0.0050	0.002000	0.0021348	0.002	6.2e-04	3.9e-07	0.002 - 0.005	2018-03-13 to 2025-11-11
CCR-AP-7	Arsenic, Total	mg/L	27	0	0	0.0180	0.000660	0.0054419	0.0048	4.0e-03	1.6e-05	NA	2016-06-10 to 2025-11-13
WAP-1	Arsenic, Total	mg/L	23	0	0	0.0250	0.002800	0.0076565	0.0051	5.8e-03	3.3e-05	NA	2018-03-15 to 2025-11-13
WAP-2RR	Arsenic, Total	mg/L	23	2	9	0.0078	0.000470	0.0017800	0.001	1.9e-03	3.6e-06	0.001 - 0.005	2018-03-15 to 2025-11-12
WAP-3S	Arsenic, Total	mg/L	23	4	17	0.0100	0.000310	0.0028326	0.0023	2.3e-03	5.2e-06	0.005 - 0.01	2018-03-15 to 2025-11-12
WAP-4S	Arsenic, Total	mg/L	23	0	0	0.0270	0.000730	0.0062926	0.0049	5.3e-03	2.8e-05	NA	2018-03-14 to 2025-11-11
WAP-5S	Arsenic, Total	mg/L	23	5	22	0.0100	0.000390	0.0017774	0.00086	2.3e-03	5.1e-06	0.001 - 0.01	2018-03-13 to 2025-11-11
CCR-AP-7	Barium, Total	mg/L	27	0	0	0.1900	0.076000	0.1265926	0.12	2.7e-02	7.3e-04	NA	2016-06-10 to 2025-11-13
WAP-1	Barium, Total	mg/L	23	0	0	0.9900	0.370000	0.5108696	0.46	1.6e-01	2.7e-02	NA	2018-03-15 to 2025-11-13
WAP-2RR	Barium, Total	mg/L	23	0	0	0.0860	0.023000	0.0426522	0.041	1.6e-02	2.5e-04	NA	2018-03-15 to 2025-11-12
WAP-3S	Barium, Total	mg/L	23	0	0	0.3900	0.024000	0.1429565	0.1	1.2e-01	1.5e-02	NA	2018-03-15 to 2025-11-12
WAP-4S	Barium, Total	mg/L	23	0	0	0.0800	0.043000	0.0552174	0.054	8.1e-03	6.5e-05	NA	2018-03-14 to 2025-11-11
WAP-5S	Barium, Total	mg/L	23	0	0	0.0630	0.037000	0.0501739	0.049	7.0e-03	4.9e-05	NA	2018-03-13 to 2025-11-11
CCR-AP-7	Beryllium, Total	mg/L	27	20	74	0.0010	0.000067	0.0007869	0.001	3.6e-04	1.3e-07	0.0005 - 0.001	2016-06-10 to 2025-11-13
WAP-1	Beryllium, Total	mg/L	23	8	35	0.0012	0.000072	0.0006831	0.00089	3.7e-04	1.4e-07	0.0005 - 0.001	2018-03-15 to 2025-11-13
WAP-2RR	Beryllium, Total	mg/L	23	21	91	0.0010	0.000240	0.0009178	0.001	2.2e-04	4.9e-08	0.0005 - 0.001	2018-03-15 to 2025-11-12
WAP-3S	Beryllium, Total	mg/L	23	22	96	0.0010	0.000068	0.0009377	0.001	2.2e-04	4.7e-08	0.0005 - 0.001	2018-03-15 to 2025-11-12
WAP-4S	Beryllium, Total	mg/L	23	23	100	0.0010	0.000500	0.0009783	0.001	1.0e-04	1.1e-08	0.0005 - 0.001	2018-03-14 to 2025-11-11
WAP-5S	Beryllium, Total	mg/L	23	22	96	0.0010	0.000084	0.0009384	0.001	2.1e-04	4.6e-08	0.0005 - 0.001	2018-03-13 to 2025-11-11
CCR-AP-7	Cadmium, Total	mg/L	27	23	85	0.0010	0.000097	0.0008599	0.001	3.1e-04	9.4e-08	0.0005 - 0.001	2016-06-10 to 2025-11-13
WAP-1	Cadmium, Total	mg/L	23	13	57	0.0010	0.000130	0.0007065	0.001	3.6e-04	1.3e-07	0.001 - 0.001	2018-03-15 to 2025-11-13
WAP-2RR	Cadmium, Total	mg/L	23	2	9	0.0010	0.000240	0.0004635	0.00041	2.3e-04	5.2e-08	0.001 - 0.001	2018-03-15 to 2025-11-12
WAP-3S	Cadmium, Total	mg/L	23	10	43	0.0010	0.000093	0.0005440	0.00024	4.1e-04	1.7e-07	0.001 - 0.001	2018-03-15 to 2025-11-12
WAP-4S	Cadmium, Total	mg/L	23	17	74	0.0010	0.000062	0.0007866	0.001	3.7e-04	1.4e-07	0.001 - 0.001	2018-03-14 to 2025-11-11
WAP-5S	Cadmium, Total	mg/L	23	21	91	0.0010	0.000092	0.0009236	0.001	2.5e-04	6.4e-08	0.001 - 0.001	2018-03-13 to 2025-11-11
CCR-AP-7	Chromium, Total	mg/L	27	16	59	0.0190	0.000470	0.0040167	0.0026	3.7e-03	1.4e-05	0.0014 - 0.01	2016-06-10 to 2025-11-13
WAP-1	Chromium, Total	mg/L	23	1	4	0.0460	0.002200	0.0128652	0.01	1.2e-02	1.4e-04	0.0022 - 0.0022	2018-03-15 to 2025-11-13
WAP-2RR	Chromium, Total	mg/L	23	20	87	0.0057	0.002000	0.0030348	0.002	1.5e-03	2.2e-06	0.002 - 0.005	2018-03-15 to 2025-11-12
WAP-3S	Chromium, Total	mg/L	23	20	87	0.0100	0.000990	0.0030604	0.002	2.0e-03	3.9e-06	0.002 - 0.01	2018-03-15 to 2025-11-12
WAP-4S	Chromium, Total	mg/L	23	22	96	0.0100	0.000880	0.0029513	0.002	2.0e-03	4.1e-06	0.002 - 0.01	2018-03-14 to 2025-11-11
WAP-5S	Chromium, Total	mg/L	23	23	100	0.0100	0.002000	0.0030000	0.002	2.0e-03	3.9e-06	0.002 - 0.01	2018-03-13 to 2025-11-11
CCR-AP-7	Cobalt, Total	mg/L	27	3	11	0.0150	0.000210	0.0020000	0.00087	3.0e-03	9.3e-06	0.0005 - 0.002	2016-06-10 to 2025-11-13
WAP-1	Cobalt, Total	mg/L	23	0	0	0.0190	0.000440	0.0054800	0.0045	5.2e-03	2.7e-05	NA	2018-03-15 to 2025-11-13
WAP-2RR	Cobalt, Total	mg/L	23	0	0	0.0097	0.000520	0.0024448	0.002	2.0e-03	4.0e-06	NA	2018-03-15 to 2025-11-12
WAP-3S	Cobalt, Total	mg/L	23	0	0	0.0018	0.000340	0.0008904	0.00085	4.1e-04	1.7e-07	NA	2018-03-15 to 2025-11-12
WAP-4S	Cobalt, Total	mg/L	23	0	0	0.0093	0.001300	0.0020957	0.0018	1.6e-03	2.6e-06	NA	2018-03-14 to 2025-11-11
WAP-5S	Cobalt, Total	mg/L	23	0	0	0.0094	0.001600	0.0069652	0.0074	1.9e-03	3.6e-06	NA	2018-03-13 to 2025-11-11
CCR-AP-7	Fluoride	mg/L	26	0	0	0.7200	0.140000	0.3346154	0.305	1.2e-01	1.5e-02	NA	2016-08-12 to 2025-11-13
WAP-1	Fluoride	mg/L	23	0	0	2.0000	0.110000	0.4295652	0.28	4.3e-01	1.8e-01	NA	2018-03-15 to 2025-11-13
WAP-2RR	Fluoride	mg/L	23	0	0	0.4000	0.110000	0.2482609	0.25	7.7e-02	6.0e-03	NA	2018-03-15 to 2025-11-12
WAP-3S	Fluoride	mg/L	23	0	0	0.7700	0.240000	0.5143478	0.52	1.5e-01	2.3e-02	NA	2018-03-15 to 2025-11-12
WAP-4S	Fluoride	mg/L	23	0	0	0.2800	0.110000	0.2052174	0.22	4.4e-02	1.9e-03	NA	2018-03-14 to 2025-11-11
WAP-5S	Fluoride	mg/L	23	1	4	0.2100	0.030000	0.1026087	0.1	3.4e-02	1.1e-03	0.1 - 0.1	2018-03-13 to 2025-11-11
CCR-AP-7	Lead, Total	mg/L	27	12	44	0.0200	0.000130	0.0026819	0.001	4.1e-03	1.7e-05	0.001 - 0.003	2016-06-10 to 2025-11-13
WAP-1	Lead, Total	mg/L	23	0	0	0.0350	0.000680	0.0107165	0.008	1.0e-02	1.0e-04	NA	2018-03-15 to 2025-11-13
WAP-2RR	Lead, Total	mg/L	23	15	65	0.0064	0.000160	0.0013578	0.001	1.5e-03	2.3e-06	0.001 - 0.001	2018-03-15 to 2025-11-12
WAP-3S	Lead, Total	mg/L	23	9	39	0.0030	0.000230	0.0009709	0.001	7.0e-04	4.9e-07	0.001 - 0.003	2018-03-15 to 2025-11-12
WAP-4S	Lead, Total	mg/L	23	19	83	0.0030	0.000130	0.0009691	0.001	5.2e-04	2.7e-07	0.001 - 0.003	2018-03-14 to 2025-11-11
WAP-5S	Lead, Total	mg/L	23	21	91	0.0030	0.000200	0.0010243	0.001	4.8e-04	2.3e-07	0.001 - 0.003	2018-03-13 to 2025-11-11
CCR-AP-7	Lithium, Total	mg/L	27	0	0	0.0390	0.007000	0.0129963	0.011	6.4e-03	4.1e-05	NA	2016-06-10 to 2025-11-13
WAP-1	Lithium, Total	mg/L	23	0	0	0.0270	0.004700	0.0120087	0.01	5.9e-03	3.5e-05	NA	2018-03-15 to 2025-11-13
WAP-2RR	Lithium, Total	mg/L	23	0	0	0.0600	0.012000	0.0290870	0.026	1.4e-02	1.9e-04	NA	2018-03-15 to 2025-11-12
WAP-3S	Lithium, Total	mg/L	23	0	0	0.1300	0.033000	0.0778261	0.079	2.6e-02	6.9e-04	NA	2018-03-15 to 2025-11-12
WAP-4S	Lithium, Total	mg/L	23	9	39	0.0170	0.001400	0.0070565	0.005	4.5e-03	2.0e-05	0.005 - 0.008	2018-03-14 to 2025-11-11
WAP-5S	Lithium, Total	mg/L	23	15	65	0.0500	0.001400	0.0073913	0.005	9.7e-03	9.5e-05	0.005 - 0.05	2018-03-13 to 2025-11-11
CCR-AP-7	Mercury, Total	mg/L	24	23	96	0.0005	0.000200	0.0002175	0.0002	6.5e-05	4.2e-09	0.0002 - 0.0005	2016-06-10 to 2025-11-13
WAP-1	Mercury, Total	mg/L	21	21	100	0.0005	0.000200	0.0002143	0.0002	6.5e-05	4.3e-09	0.0002 - 0.0005	2018-03-15 to 2025-11-13
WAP-2RR	Mercury, Total	mg/L	21	21	100	0.0005	0.000200	0.0002143	0.0002	6.5e-05	4.3e-09	0.0002 - 0.0005	2018-03-15 to 2025-11-12
WAP-3S	Mercury, Total	mg/L	21	21	100	0.0005	0.000200	0.0002143	0.0002	6.5e-05	4.3e-09	0.0002 - 0.0005	2018-03-15 to 2025-11-12
WAP-4S	Mercury, Total	mg/L	22	22	100	0.0005	0.000200	0.0002136	0.0002	6.4e-05	4.1e-09	0.0002 - 0.0005	2018-03-14 to 2025-11-11
WAP-5S	Mercury, Total	mg/L	21	21	100	0.0005	0.000200	0.0002143	0.0002	6.5e-05	4.3e-09	0.0002 - 0.0005	2018-03-13 to 2025-11-11
CCR-AP-7	Molybdenum, Total	mg/L	27	2	7	0.0130	0.001100	0.0035407	0.002	2.9e-03	8.6e-06	0.005 - 0.005	2016-06-10 to 2025-11-13
WAP-1	Molybdenum, Total	mg/L	23	5	22	0.0050	0.000680	0.0022391	0.0014	1.6e-03	2.6e-06	0.005 - 0.005	2018-03-15 to 2025-11-13
WAP-2RR	Molybdenum, Total	mg/L	23	0	0	0.1600	0.013000	0.0631739	0.063	3.2e-02	1.1e-03	NA	2018-03-15 to 2025-11-12
WAP-3S	Molybdenum, Total	mg/L	23	0	0	1.5000	0.260000	0.7673913	0.75	3.2e-01	1.0e-01	NA	2018-03-15 to 2025-11-12
WAP-4S	Molybdenum, Total	mg/L	23	0	0	0.5800	0.000780	0.4295991	0.45	1.1e-01	1.2e-02	NA	2018-03-14 to 2025-11-11
WAP-5S	Molybdenum, Total	mg/L	23	9	39	0.4000	0.000640	0.0198700	0.0011	8.3e-02	6.9e-03	0.005 - 0.005	2018-03-13 to 2025-11-11
CCR-AP-7	Radium-226 & 228	pCi/L	24	8	33	1.7200	0.126000	0.8293750	0.809	4.3e-01	1.9e-01	0.126 - 1.44	2016-06-10 to 2025-11-13
WAP-1	Radium-226 & 228	pCi/L	19	5	26	4.7400	0.480000	1.4317895	1.24	9.6e-01	9.2e-01	0.48 - 1.45	2018-04-02 to 2025-11-13
WAP-2RR	Radium-226 & 228	pCi/L	20	11	55	2.1500	0.088300	0.5940150	0.468	5.2e-01	2.7e-01	0.0883 - 0.797	2018-03-15 to 2025-11-12
WAP-3S	Radium-226 & 228	pCi/L	19	6	32	1.3800	0.122000	0.8423158	1	3.7e-01	1.4e-01	0.122 - 1.08	2018-03-15 to 2025-11-12
WAP-4S	Radium-226 & 228	pCi/L	20	14	70	1.8600	0.131000	0.5507500	0.374	4.4e-01	2.0e-01	0.131 - 0.901	2018-03-14 to 2025-11-11
WAP-5S	Radium-226 & 228	pCi/L	20	14	70	1.4900	0.045400	0.4519200	0.369	3.3e-01	1.1e-01	0.0454 - 0.624	2018-03-13 to 2025-11-11
CCR-AP-7	Selenium, Total	mg/L	25	21	84	0.0050	0.000350	0.0044032	0.005	1.4e-03	2.1e-06	0.005 - 0.005	2016-06-10 to 2025-11-13
WAP-1	Selenium, Total	mg/L	21	18	86	0.0050	0.001800	0.0046143	0.005	1.0e-03	1.0e-06	0.005 - 0.005	2018-03-15 to 2025-11-13
WAP-2RR	Selenium, Total	mg/L	21	11	52	0.0071	0.001400	0.0048095	0.005	1.3e-03	1.7e-06	0.005 - 0.005	2018-03-15 to 2025-11-12

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	variance	reporting limit range	date range
WAP-3S	Selenium, Total	mg/L	21	21	100	0.0050	0.005000	0.0050000	0.005	0.0e+00	0.0e+00	0.005 - 0.005	2018-03-15 to 2025-11-12
WAP-4S	Selenium, Total	mg/L	21	21	100	0.0050	0.005000	0.0050000	0.005	0.0e+00	0.0e+00	0.005 - 0.005	2018-03-14 to 2025-11-11
WAP-5S	Selenium, Total	mg/L	21	21	100	0.0050	0.005000	0.0050000	0.005	0.0e+00	0.0e+00	0.005 - 0.005	2018-03-13 to 2025-11-11
CCR-AP-7	Thallium, Total	mg/L	27	22	81	0.0020	0.000066	0.0009024	0.001	3.8e-04	1.4e-07	0.001 - 0.002	2016-06-10 to 2025-11-13
WAP-1	Thallium, Total	mg/L	23	10	43	0.0020	0.000083	0.0006980	0.00063	4.9e-04	2.4e-07	0.001 - 0.002	2018-03-15 to 2025-11-13
WAP-2RR	Thallium, Total	mg/L	23	13	57	0.0020	0.000067	0.0006910	0.001	5.0e-04	2.5e-07	0.001 - 0.002	2018-03-15 to 2025-11-12
WAP-3S	Thallium, Total	mg/L	23	23	100	0.0020	0.001000	0.0010435	0.001	2.1e-04	4.3e-08	0.001 - 0.002	2018-03-15 to 2025-11-12
WAP-4S	Thallium, Total	mg/L	23	23	100	0.0020	0.001000	0.0010435	0.001	2.1e-04	4.3e-08	0.001 - 0.002	2018-03-14 to 2025-11-11
WAP-5S	Thallium, Total	mg/L	23	21	91	0.0020	0.000110	0.0009709	0.001	3.3e-04	1.1e-07	0.001 - 0.002	2018-03-13 to 2025-11-11

Table A-2. Results of Shapiro-Wilk Test for Normality

		Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
Location	Constituent	W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
CCR-AP-7	Antimony, Total	0.436	4e-09	27	24	Not normal
WAP-1	Antimony, Total	0.484	6e-08	23	10	Not normal
WAP-2RR	Antimony, Total	0.236	5.6e-10	23	22	Not normal
WAP-3S	Antimony, Total	0.347	4e-09	23	22	Not normal
WAP-4S	Antimony, Total	0.284	1.3e-09	23	22	Not normal
WAP-5S	Antimony, Total	NA	NA	23	23	Not Evaluated - All Non-Detect Results
CCR-AP-7	Arsenic, Total	0.858	0.0017	27	0	Not normal
WAP-1	Arsenic, Total	0.770	0.00013	23	0	Not normal
WAP-2RR	Arsenic, Total	0.622	1.6e-06	23	2	Not normal
WAP-3S	Arsenic, Total	0.916	0.055	23	4	Normal
WAP-4S	Arsenic, Total	0.658	4.1e-06	23	0	Not normal
WAP-5S	Arsenic, Total	0.696	1.3e-05	23	5	Not normal
CCR-AP-7	Barium, Total	0.947	0.18	27	0	Normal
WAP-1	Barium, Total	0.787	0.00024	23	0	Not normal
WAP-2RR	Barium, Total	0.913	0.047	23	0	Not normal
WAP-3S	Barium, Total	0.859	0.004	23	0	Not normal
WAP-4S	Barium, Total	0.907	0.036	23	0	Not normal
WAP-5S	Barium, Total	0.961	0.49	23	0	Normal
CCR-AP-7	Beryllium, Total	0.717	6.8e-06	27	20	Not normal
WAP-1	Beryllium, Total	0.902	0.028	23	8	Not normal
WAP-2RR	Beryllium, Total	0.409	1.3e-08	23	21	Not normal
WAP-3S	Beryllium, Total	0.330	2.9e-09	23	22	Not normal
WAP-4S	Beryllium, Total	NA	NA	23	23	Not Evaluated - All Non-Detect Results
WAP-5S	Beryllium, Total	0.331	2.9e-09	23	22	Not normal
CCR-AP-7	Cadmium, Total	0.504	1.8e-08	27	23	Not normal
WAP-1	Cadmium, Total	0.797	0.00034	23	13	Not normal
WAP-2RR	Cadmium, Total	0.775	0.00016	23	2	Not normal
WAP-3S	Cadmium, Total	0.790	0.00027	23	10	Not normal
WAP-4S	Cadmium, Total	0.601	9.2e-07	23	17	Not normal
WAP-5S	Cadmium, Total	0.330	2.9e-09	23	21	Not normal
CCR-AP-7	Chromium, Total	0.585	1.4e-07	27	16	Not normal
WAP-1	Chromium, Total	0.795	0.00031	23	1	Not normal
WAP-2RR	Chromium, Total	0.679	7.5e-06	23	20	Not normal
WAP-3S	Chromium, Total	0.687	9.6e-06	23	20	Not normal
WAP-4S	Chromium, Total	0.577	5.1e-07	23	22	Not normal
WAP-5S	Chromium, Total	NA	NA	23	23	Not Evaluated - All Non-Detect Results
CCR-AP-7	Cobalt, Total	0.573	1e-07	27	3	Not normal
WAP-1	Cobalt, Total	0.811	0.00057	23	0	Not normal
WAP-2RR	Cobalt, Total	0.709	1.8e-05	23	0	Not normal
WAP-3S	Cobalt, Total	0.946	0.25	23	0	Normal
WAP-4S	Cobalt, Total	0.400	1.1e-08	23	0	Not normal
WAP-5S	Cobalt, Total	0.912	0.046	23	0	Not normal
CCR-AP-7	Fluoride	0.879	0.0055	26	0	Not normal
WAP-1	Fluoride	0.613	1.2e-06	23	0	Not normal
WAP-2RR	Fluoride	0.977	0.85	23	0	Normal
WAP-3S	Fluoride	0.969	0.66	23	0	Normal
WAP-4S	Fluoride	0.960	0.47	23	0	Normal
WAP-5S	Fluoride	0.912	0.046	23	1	Not normal
CCR-AP-7	Lead, Total	0.541	4.5e-08	27	12	Not normal
WAP-1	Lead, Total	0.804	0.00044	23	0	Not normal
WAP-2RR	Lead, Total	0.456	3.3e-08	23	15	Not normal
WAP-3S	Lead, Total	0.724	2.9e-05	23	9	Not normal
WAP-4S	Lead, Total	0.534	1.8e-07	23	19	Not normal
WAP-5S	Lead, Total	0.366	5.7e-09	23	21	Not normal
CCR-AP-7	Lithium, Total	0.662	1.2e-06	27	0	Not normal
WAP-1	Lithium, Total	0.880	0.01	23	0	Not normal
WAP-2RR	Lithium, Total	0.886	0.013	23	0	Not normal
WAP-3S	Lithium, Total	0.977	0.85	23	0	Normal
WAP-4S	Lithium, Total	0.766	0.00011	23	9	Not normal
WAP-5S	Lithium, Total	0.465	4e-08	23	15	Not normal
CCR-AP-7	Mercury, Total	0.324	1.6e-09	24	23	Not normal
WAP-1	Mercury, Total	NA	NA	21	21	Not Evaluated - All Non-Detect Results

Location	Constituent	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
		W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
WAP-2RR	Mercury, Total	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-3S	Mercury, Total	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-4S	Mercury, Total	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-5S	Mercury, Total	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CCR-AP-7	Molybdenum, Total	0.740	1.5e-05	27	2	Not normal
WAP-1	Molybdenum, Total	0.859	0.004	23	5	Not normal
WAP-2RR	Molybdenum, Total	0.924	0.079	23	0	Normal
WAP-3S	Molybdenum, Total	0.962	0.5	23	0	Normal
WAP-4S	Molybdenum, Total	0.715	2.2e-05	23	0	Not normal
WAP-5S	Molybdenum, Total	0.222	4.5e-10	23	9	Not normal
CCR-AP-7	Radium-226 & 228	0.964	0.53	24	8	Normal
WAP-1	Radium-226 & 228	0.801	0.0012	19	5	Not normal
WAP-2RR	Radium-226 & 228	0.799	0.00082	20	11	Not normal
WAP-3S	Radium-226 & 228	0.904	0.058	19	6	Normal
WAP-4S	Radium-226 & 228	0.751	0.00017	20	14	Not normal
WAP-5S	Radium-226 & 228	0.761	0.00024	20	14	Not normal
CCR-AP-7	Selenium, Total	0.450	1.2e-08	25	21	Not normal
WAP-1	Selenium, Total	0.532	4.1e-07	21	18	Not normal
WAP-2RR	Selenium, Total	0.767	0.00021	21	11	Not normal
WAP-3S	Selenium, Total	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-4S	Selenium, Total	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-5S	Selenium, Total	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CCR-AP-7	Thallium, Total	0.582	1.3e-07	27	22	Not normal
WAP-1	Thallium, Total	0.802	0.00041	23	10	Not normal
WAP-2RR	Thallium, Total	0.812	0.00059	23	13	Not normal
WAP-3S	Thallium, Total	NA	NA	23	23	Not Evaluated - All Non-Detect Results
WAP-4S	Thallium, Total	NA	NA	23	23	Not Evaluated - All Non-Detect Results
WAP-5S	Thallium, Total	0.505	9.5e-08	23	21	Not normal

Table A-3. Results for Statistically Significant Outliers

					identified outlier details			Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test, non-detects substituted by reporting limit)						
Location	Constituent	n	n, non-detects	assumed data distribution	sample date	result	detected?	Outlier Test	statistic	p-value	alternative hypothesis	significant outlier at 95% Confidence	significant outlier at 99% Confidence	Outlier handling
CCR-AP-7	Antimony, Total	27	24	Not normal	2023-11-06	0.005	No	Dixon	0.7194	0	highest value 0.005 is an outlier	Yes	No	Maintain
WAP-1	Antimony, Total	23	10	Not normal	2025-11-13	0.0055	Yes	Dixon	0.7338	0	highest value 0.0055 is an outlier	Yes	No	Maintain
CCR-AP-7	Arsenic, Total	27	0	Not normal	2017-02-08	0.018	Yes	Dixon	0.5614	0	highest value 0.018 is an outlier	Yes	No	Maintain
WAP-1	Arsenic, Total	23	0	Not normal	2020-11-24	0.025	Yes	Dixon	0.5046	0.02018	highest value 0.025 is an outlier	Yes	Yes	Maintain
WAP-3S	Arsenic, Total	23	4	Normal	2023-11-08	0.01	No	Dixon	0.5348	0.008978	highest value 0.01 is an outlier	Yes	No	Maintain
WAP-4S	Arsenic, Total	23	0	Not normal	2023-05-18	0.027	Yes	Dixon	0.6276	0	highest value 0.027 is an outlier	Yes	No	Maintain
WAP-5S	Arsenic, Total	23	5	Not normal	2023-11-07	0.01	No	Dixon	0.5291	0.01097	highest value 0.01 is an outlier	Yes	Yes	Maintain
WAP-1	Barium, Total	23	0	Not normal	2020-11-24	0.99	Yes	Dixon	0.5082	0.01863	highest value 0.99 is an outlier	Yes	Yes	Maintain
WAP-4S	Barium, Total	23	0	Not normal	2018-04-02	0.08	Yes	Dixon	0.5312	0.01025	highest value 0.08 is an outlier	Yes	Yes	Maintain
WAP-2RR	Cadmium, Total	23	2	Not normal	2018-04-03	0.001	Yes	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-2RR	Cadmium, Total	23	2	Not normal	2020-02-18	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-2RR	Cadmium, Total	23	2	Not normal	2020-03-31	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2018-04-03	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2020-02-19	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2020-03-30	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2020-11-24	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2021-05-06	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2021-11-03	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2022-05-04	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2022-11-21	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2023-05-19	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-3S	Cadmium, Total	23	10	Not normal	2025-11-12	0.001	No	Dixon	0	0	highest value 0.001 is an outlier	Yes	No	Maintain
WAP-5S	Cadmium, Total	23	21	Not normal	2023-11-07	0.000092	Yes	Dixon	1	0	lowest value 0.000092 is an outlier	Yes	No	Maintain
CCR-AP-7	Chromium, Total	27	16	Not normal	2017-02-08	0.019	Yes	Dixon	0.7273	0	highest value 0.019 is an outlier	Yes	No	Maintain
WAP-3S	Chromium, Total	23	20	Not normal	2023-11-08	0.01	No	Dixon	0.625	0	highest value 0.01 is an outlier	Yes	No	Maintain
CCR-AP-7	Cobalt, Total	27	3	Not normal	2017-02-08	0.015	Yes	Dixon	0.6599	0	highest value 0.015 is an outlier	Yes	No	Maintain
WAP-2RR	Cobalt, Total	23	0	Not normal	2020-11-24	0.0097	Yes	Dixon	0.5862	0	highest value 0.0097 is an outlier	Yes	No	Maintain
WAP-4S	Cobalt, Total	23	0	Not normal	2018-06-14	0.0093	Yes	Dixon	0.8861	0	highest value 0.0093 is an outlier	Yes	No	Maintain
CCR-AP-7	Fluoride	26	0	Not normal	2022-05-03	0.72	Yes	Dixon	0.46	0.03295	highest value 0.72 is an outlier	Yes	Yes	Maintain
WAP-1	Fluoride	23	0	Not normal	2020-03-31	2	Yes	Dixon	0.5495	0.003537	highest value 2 is an outlier	Yes	No	Maintain
WAP-5S	Fluoride	23	1	Not normal	2018-06-14	0.21	Yes	Dixon	0.5926	0	highest value 0.21 is an outlier	Yes	No	Maintain
CCR-AP-7	Lead, Total	27	12	Not normal	2017-02-08	0.02	Yes	Dixon	0.6064	0	highest value 0.02 is an outlier	Yes	No	Maintain
WAP-2RR	Lead, Total	23	15	Not normal	2018-04-03	0.0064	Yes	Dixon	0.7692	0	highest value 0.0064 is an outlier	Yes	No	Maintain
WAP-4S	Lead, Total	23	19	Not normal	2023-11-07	0.003	No	Dixon	0.7435	0	highest value 0.003 is an outlier	Yes	No	Maintain
WAP-5S	Lead, Total	23	21	Not normal	2023-11-07	0.003	No	Dixon	1	0	highest value 0.003 is an outlier	Yes	No	Maintain
CCR-AP-7	Lithium, Total	27	0	Not normal	2017-02-08	0.039	Yes	Dixon	0.6355	0	highest value 0.039 is an outlier	Yes	No	Maintain
WAP-5S	Lithium, Total	23	15	Not normal	2018-04-02	0.05	No	Dixon	0.8824	0	highest value 0.05 is an outlier	Yes	No	Maintain
WAP-1	Molybdenum, Total	23	5	Not normal	2018-07-25	0.005	No	Dixon	0	0	highest value 0.005 is an outlier	Yes	No	Maintain
WAP-1	Molybdenum, Total	23	5	Not normal	2022-11-21	0.005	No	Dixon	0	0	highest value 0.005 is an outlier	Yes	No	Maintain

					identified outlier details			Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test, non-detects substituted by reporting limit)						
Location	Constituent	n	n, non-detects	assumed data distribution	sample date	result	detected?	Outlier Test	statistic	p-value	alternative hypothesis	significant outlier at 95% Confidence	significant outlier at 99% Confidence	Outlier handling
WAP-1	Molybdenum, Total	23	5	Not normal	2023-11-06	0.005	No	Dixon	0	0	highest value 0.005 is an outlier	Yes	No	Maintain
WAP-1	Molybdenum, Total	23	5	Not normal	2024-11-13	0.005	No	Dixon	0	0	highest value 0.005 is an outlier	Yes	No	Maintain
WAP-1	Molybdenum, Total	23	5	Not normal	2025-05-16	0.005	No	Dixon	0	0	highest value 0.005 is an outlier	Yes	No	Maintain
WAP-2RR	Molybdenum, Total	23	0	Normal	2019-10-28	0.16	Yes	Dixon	0.4688	0.04278	highest value 0.16 is an outlier	Yes	Yes	Maintain
WAP-4S	Molybdenum, Total	23	0	Not normal	2018-06-14	0.00078	Yes	Dixon	0.6465	0	lowest value 0.00078 is an outlier	Yes	No	Maintain
WAP-5S	Molybdenum, Total	23	9	Not normal	2018-06-14	0.4	Yes	Dixon	0.9892	0	highest value 0.4 is an outlier	Yes	No	Maintain
WAP-1	Radium-226 & 228	19	5	Not normal	2020-11-24	4.74	Yes	Dixon	0.6142	0	highest value 4.74 is an outlier	Yes	No	Maintain
WAP-2RR	Radium-226 & 228	20	11	Not normal	2021-11-04	2.15	Yes	Dixon	0.5704	0.006882	highest value 2.15 is an outlier	Yes	No	Maintain
WAP-5S	Radium-226 & 228	20	14	Not normal	2022-11-16	1.49	Yes	Dixon	0.538	0.01872	highest value 1.49 is an outlier	Yes	Yes	Maintain
CCR-AP-7	Thallium, Total	27	22	Not normal	2023-11-06	0.002	No	Dixon	0.523	0.001534	highest value 0.002 is an outlier	Yes	No	Maintain
WAP-1	Thallium, Total	23	10	Not normal	2023-11-06	0.002	No	Dixon	0.5495	0.003537	highest value 0.002 is an outlier	Yes	No	Maintain
WAP-2RR	Thallium, Total	23	13	Not normal	2023-11-08	0.002	No	Dixon	0.5219	0.01342	highest value 0.002 is an outlier	Yes	Yes	Maintain
WAP-5S	Thallium, Total	23	21	Not normal	2023-11-07	0.002	No	Dixon	1	0	highest value 0.002 is an outlier	Yes	No	Maintain

Table A-4. Results of Mann Kendall and Thiel Sen Trend Tests, Assessment Monitoring

		Mann Kendall Trends		Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 12 most recent data points)									
				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)								Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)		
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year
CCR-AP-7	Antimony, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	27	3	0.345	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	1	2020-05-18 to 2025-11-13	0.396	NA	NA	NA	NA	NA	NA	NA
WAP-1	Antimony, Total	No Trend	No Trend	23	13	0.812	0.0218	0.912	8.8	5	NA	0.001	NA	12	9	2020-03-31 to 2025-11-13	0.95	0.313	0.188	81.2	20	NA	0.0008179	NA
WAP-2RR	Antimony, Total	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.292	NA	NA	NA	NA	NA	NA	NA	12	1	2020-03-31 to 2025-11-12	0.381	NA	NA	NA	NA	NA	NA	NA
WAP-3S	Antimony, Total	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.326	NA	NA	NA	NA	NA	NA	NA	12	1	2020-03-30 to 2025-11-12	0.443	NA	NA	NA	NA	NA	NA	NA
WAP-4S	Antimony, Total	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	1.32	NA	NA	NA	NA	NA	NA	NA	12	1	2020-03-30 to 2025-11-11	1.42	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Antimony, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.293	NA	NA	NA	NA	NA	NA	NA	12	0	2020-03-30 to 2025-11-11	0.385	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Arsenic, Total	Decreasing	Stable	27	27	0.733	-0.371	0.00753	99.2	-129	-1.494e-06	0.00761	-0.0005454	12	12	2020-05-18 to 2025-11-13	0.946	-0.198	0.409	59.1	-13	NA	0.005679	NA
WAP-1	Arsenic, Total	Stable	Stable	23	23	0.752	-0.135	0.383	61.7	-34	NA	0.00579	NA	12	12	2020-03-31 to 2025-11-13	0.842	-0.364	0.115	88.5	-24	NA	0.006436	NA
WAP-2RR	Arsenic, Total	Increasing	No Trend	23	21	1.08	0.347	0.0229	97.7	87	2.706e-07	0.0007908	9.878e-05	12	11	2020-03-31 to 2025-11-12	0.937	0.0465	0.89	11	3	NA	0.001243	NA
WAP-3S	Arsenic, Total	Decreasing	Stable	23	19	0.641	-0.402	0.00816	99.2	-101	-8.177e-07	0.003041	-0.0002985	12	8	2020-03-30 to 2025-11-12	0.952	-0.0775	0.782	21.8	-5	NA	0.0009898	NA
WAP-4S	Arsenic, Total	Increasing	No Trend	23	23	0.835	0.538	0.000393	100	135	1.727e-06	0.003197	0.0006302	12	12	2020-03-30 to 2025-11-11	0.714	0.313	0.188	81.2	20	NA	0.00503	NA
WAP-5S	Arsenic, Total	No Trend	No Trend	23	18	0.938	0.211	0.169	83.1	53	NA	0.0006396	NA	12	8	2020-03-30 to 2025-11-11	0.882	0.321	0.169	83.1	21	NA	0.0005018	NA
CCR-AP-7	Barium, Total	Decreasing	No Trend	27	27	0.214	-0.309	0.0315	96.9	-103	-1.013e-05	0.141	-0.003698	12	12	2020-05-18 to 2025-11-13	0.246	0.0481	0.889	11.1	3	NA	0.115	NA
WAP-1	Barium, Total	No Trend	Stable	23	23	0.32	0.0442	0.791	20.9	11	NA	0.452	NA	12	12	2020-03-31 to 2025-11-13	0.337	-0.313	0.188	81.2	-20	NA	0.5214	NA
WAP-2RR	Barium, Total	Stable	No Trend	23	23	0.371	-0.068	0.672	32.8	-17	NA	0.04116	NA	12	12	2020-03-31 to 2025-11-12	0.41	0.0465	0.89	11	3	NA	0.04277	NA
WAP-3S	Barium, Total	Decreasing	No Trend	23	23	0.842	-0.38	0.0121	98.8	-96	-7.225e-05	0.2067	-0.02637	12	12	2020-03-30 to 2025-11-12	1.31	0.321	0.169	83.1	21	NA	0.02734	NA
WAP-4S	Barium, Total	Decreasing	Stable	23	23	0.146	-0.383	0.0127	98.7	-95	-3.899e-06	0.05866	-0.001423	12	12	2020-03-30 to 2025-11-11	0.134	-0.0615	0.836	16.4	-4	NA	0.05364	NA
WAP-5S	Barium, Total	Decreasing	Stable	23	23	0.139	-0.598	0.000105	100	-147	-5.007e-06	0.05558	-0.001828	12	12	2020-03-30 to 2025-11-11	0.103	-0.245	0.323	67.7	-15	NA	0.04736	NA
CCR-AP-7	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	27	7	0.377	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	1	2020-05-18 to 2025-11-13	0.203	NA	NA	NA	NA	NA	NA	NA
WAP-1	Beryllium, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect.	23	15	0.587	0.182	0.249	75.1	44	NA	0.0004184	NA	12	5	2020-03-31 to 2025-11-13	0.448	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-2RR	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	23	2	0.162	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	1	2020-03-31 to 2025-11-12	0.167	NA	NA	NA	NA	NA	NA	NA
WAP-3S	Beryllium, Total	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.217	NA	NA	NA	NA	NA	NA	NA	12	0	2020-03-30 to 2025-11-12	0.151	NA	NA	NA	NA	NA	NA	NA
WAP-4S	Beryllium, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.107	NA	NA	NA	NA	NA	NA	NA	12	0	2020-03-30 to 2025-11-11	0.151	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Beryllium, Total	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.21	NA	NA	NA	NA	NA	NA	NA	12	0	2020-03-30 to 2025-11-11	0.151	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	27	4	0.285	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	2	2020-05-18 to 2025-11-13	0.367	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-1	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	10	0.355	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	4	2020-03-31 to 2025-11-13	0.299	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-2RR	Cadmium, Total	Decreasing	Decreasing	23	21	0.368	-0.473	0.00195	99.8	-118	-7.019e-08	0.0004806	-2.562e-05	12	11	2020-03-31 to 2025-11-12	0.247	-0.657	0.00389	99.6	-43	-1.201e-07	0.0004951	-4.383e-05
WAP-3S	Cadmium, Total	Stable	Not Evaluated - Majority of data (>50%) non-detect.	23	13	0.495	-0.00443	1	0	-1	NA	0.00024	NA	12	4	2020-03-30 to 2025-11-12	0.474	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends. Units = milligrams per liter.

		Mann Kendall Trends		Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 12 most recent data points)									
				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)								Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)		
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year
WAP-4S	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	6	0.361	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	4	2020-03-30 to 2025-11-11	0.454	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-5S	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	23	2	0.235	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	1	2020-03-30 to 2025-11-11	0.253	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	27	11	1.22	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	1	2020-05-18 to 2025-11-13	0.644	NA	NA	NA	NA	NA	NA	NA
WAP-1	Chromium, Total	Stable	Stable	23	22	0.942	-0.215	0.161	83.9	-54	NA	0.01226	NA	12	12	2020-03-31 to 2025-11-13	0.875	-0.168	0.492	50.8	-11	NA	0.006829	NA
WAP-2RR	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	3	0.684	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	2	2020-03-31 to 2025-11-12	0.584	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-3S	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	23	3	0.614	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	1	2020-03-30 to 2025-11-12	0.569	NA	NA	NA	NA	NA	NA	NA
WAP-4S	Chromium, Total	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.663	NA	NA	NA	NA	NA	NA	NA	12	0	2020-03-30 to 2025-11-11	0.62	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Chromium, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.659	NA	NA	NA	NA	NA	NA	NA	12	0	2020-03-30 to 2025-11-11	0.62	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Cobalt, Total	Decreasing	No Trend	27	24	1.58	-0.423	0.00217	99.8	-148	-4.921e-07	0.001764	-0.0001796	12	9	2020-05-18 to 2025-11-13	1.49	-0.121	0.631	36.9	-8	NA	0.0006244	NA
WAP-1	Cobalt, Total	Stable	Stable	23	23	0.955	-0.182	0.234	76.6	-46	NA	0.004834	NA	12	12	2020-03-31 to 2025-11-13	0.984	-0.212	0.373	62.7	-14	NA	0.003043	NA
WAP-2RR	Cobalt, Total	Stable	Decreasing	23	23	0.822	-0.244	0.112	88.8	-61	NA	0.002269	NA	12	12	2020-03-31 to 2025-11-12	0.912	-0.462	0.0457	95.4	-30	-1.282e-06	0.003468	-0.0004678
WAP-3S	Cobalt, Total	No Trend	Probably Decreasing	23	23	0.46	0.163	0.29	71	41	NA	0.0006409	NA	12	12	2020-03-30 to 2025-11-12	0.338	-0.382	0.099	90.1	-25	NA	0.001529	NA
WAP-4S	Cobalt, Total	Stable	Decreasing	23	23	0.767	-0.2	0.202	79.8	-49	NA	0.0019	NA	12	12	2020-03-30 to 2025-11-11	0.154	-0.636	0.0065	99.4	-40	-2.753e-07	0.001965	-0.0001005
WAP-5S	Cobalt, Total	Decreasing	Stable	23	23	0.274	-0.425	0.00509	99.5	-107	-1.026e-06	0.008074	-0.0003744	12	12	2020-03-30 to 2025-11-11	0.23	-0.229	0.336	66.4	-15	NA	0.007316	NA
CCR-AP-7	Fluoride	Increasing	Stable	26	26	0.367	0.326	0.0227	97.7	104	3.636e-05	0.2626	0.01327	12	12	2020-05-18 to 2025-11-13	0.326	-0.171	0.489	51.1	-11	NA	0.423	NA
WAP-1	Fluoride	No Trend	Stable	23	23	1	0.105	0.507	49.3	26	NA	0.2764	NA	12	12	2020-03-31 to 2025-11-13	0.931	-0.321	0.169	83.1	-21	NA	0.5961	NA
WAP-2RR	Fluoride	Increasing	Stable	23	23	0.311	0.455	0.00279	99.7	114	5.319e-05	0.1892	0.01941	12	12	2020-03-31 to 2025-11-12	0.161	-0.0923	0.73	27	-6	NA	0.3182	NA
WAP-3S	Fluoride	Stable	Decreasing	23	23	0.296	-0.226	0.139	86.1	-57	NA	0.5608	NA	12	12	2020-03-30 to 2025-11-12	0.305	-0.626	0.00597	99.4	-41	-0.0002031	0.7633	-0.07411
WAP-4S	Fluoride	No Trend	Stable	23	23	0.214	0.0323	0.853	14.7	8	NA	0.22	NA	12	12	2020-03-30 to 2025-11-11	0.188	-0.0923	0.73	27	-6	NA	0.2279	NA
WAP-5S	Fluoride	Stable	No Trend	23	22	0.351	-0.0766	0.633	36.7	-19	NA	0.1009	NA	12	12	2020-03-30 to 2025-11-11	0.294	0.281	0.239	76.1	18	NA	0.07797	NA
CCR-AP-7	Lead, Total	Decreasing	Not Evaluated - Majority of data (>50%) non-detect.	27	15	1.74	-0.299	0.0397	96	-96	-2.47e-07	0.001261	-9.015e-05	12	4	2020-05-18 to 2025-11-13	1.53	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-1	Lead, Total	Stable	Stable	23	23	0.936	-0.139	0.369	63.1	-35	NA	0.00985	NA	12	12	2020-03-31 to 2025-11-13	0.935	-0.0909	0.732	26.8	-6	NA	0.006713	NA
WAP-2RR	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	8	1.56	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	5	2020-03-31 to 2025-11-12	1.38	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-3S	Lead, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect.	23	14	0.794	0.0672	0.685	31.5	16	NA	0.0005	NA	12	4	2020-03-30 to 2025-11-12	0.821	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-4S	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	4	0.48	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	2	2020-03-30 to 2025-11-11	0.645	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-5S	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	2	0.426	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	2	2020-03-30 to 2025-11-11	0.574	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends. Units = milligrams per liter.

		Mann Kendall Trends		Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 12 most recent data points)									
				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)								Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)		
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year
CCR-AP-7	Lithium, Total	Decreasing	No Trend	27	27	0.493	-0.414	0.00359	99.6	-139	-1.099e-06	0.01258	-0.0004011	12	12	2020-05-18 to 2025-11-13	0.271	0.0155	1	0	1	NA	0.00985	NA
WAP-1	Lithium, Total	Stable	Stable	23	23	0.49	-0.192	0.213	78.7	-48	NA	0.01055	NA	12	12	2020-03-31 to 2025-11-13	0.496	-0.0606	0.837	16.3	-4	NA	0.009075	NA
WAP-2RR	Lithium, Total	Decreasing	Decreasing	23	23	0.474	-0.503	0.00094	99.9	-126	-9.044e-06	0.04103	-0.003301	12	12	2020-03-31 to 2025-11-12	0.315	-0.473	0.0392	96.1	-31	-6.784e-06	0.03107	-0.002476
WAP-3S	Lithium, Total	Increasing	Probably Increasing	23	23	0.337	0.705	0.00000322	100	177	2.408e-05	0.05536	0.00879	12	12	2020-03-30 to 2025-11-12	0.167	0.45	0.0528	94.7	29	NA	0.07804	NA
WAP-4S	Lithium, Total	Probably Decreasing	No Trend	23	14	0.835	-0.308	0.0498	95	-74	NA	0.006112	NA	12	6	2020-03-30 to 2025-11-11	0.451	0.277	0.258	74.2	17	NA	0.00229	NA
WAP-5S	Lithium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	23	8	1.17	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	4	2020-03-30 to 2025-11-11	0.301	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
CCR-AP-7	Mercury, Total	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	24	1	0.461	NA	NA	NA	NA	NA	NA	NA	12	1	2020-05-18 to 2025-11-13	0.562	NA	NA	NA	NA	NA	NA	NA
WAP-1	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.306	NA	NA	NA	NA	NA	NA	NA	12	0	2019-10-28 to 2025-11-13	0.385	NA	NA	NA	NA	NA	NA	NA
WAP-2RR	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.306	NA	NA	NA	NA	NA	NA	NA	12	0	2019-10-28 to 2025-11-12	0.385	NA	NA	NA	NA	NA	NA	NA
WAP-3S	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.306	NA	NA	NA	NA	NA	NA	NA	12	0	2019-10-28 to 2025-11-12	0.385	NA	NA	NA	NA	NA	NA	NA
WAP-4S	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.299	NA	NA	NA	NA	NA	NA	NA	12	0	2020-03-30 to 2025-11-11	0.385	NA	NA	NA	NA	NA	NA	NA
WAP-5S	Mercury, Total	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.306	NA	NA	NA	NA	NA	NA	NA	12	0	2019-10-25 to 2025-11-11	0.385	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	Molybdenum, Total	Decreasing	Stable	27	25	0.867	-0.625	0.00000696	100	-216	-1.412e-06	0.004599	-0.0005155	12	10	2020-05-18 to 2025-11-13	0.289	-0.0313	0.945	5.5	-2	NA	0.0015	NA
WAP-1	Molybdenum, Total	No Trend	Increasing	23	18	0.457	0.0773	0.632	36.8	19	NA	0.001346	NA	12	8	2020-03-31 to 2025-11-13	0.459	0.561	0.017	98.3	35	7.348e-07	0.001097	0.0002682
WAP-2RR	Molybdenum, Total	Increasing	Stable	23	23	0.514	0.399	0.00881	99.1	100	1.815e-05	0.03831	0.006626	12	12	2020-03-31 to 2025-11-12	0.183	-0.0155	1	0	-1	NA	0.0795	NA
WAP-3S	Molybdenum, Total	Decreasing	Decreasing	23	23	0.418	-0.456	0.00259	99.7	-115	-0.0002079	0.9722	-0.07589	12	12	2020-03-30 to 2025-11-12	0.38	-0.788	0.00047	100	-52	-0.0003075	0.9801	-0.1122
WAP-4S	Molybdenum, Total	Increasing	Stable	23	23	0.255	0.443	0.00387	99.6	110	3.81e-05	0.4057	0.0139	12	12	2020-03-30 to 2025-11-11	0.0839	-0.156	0.533	46.7	-10	NA	0.4784	NA
WAP-5S	Molybdenum, Total	Increasing	Not Evaluated - Majority of data (>50%) non-detect.	23	14	4.4	0.496	0.00169	99.8	116	4.131e-07	0.0007255	0.0001508	12	4	2020-03-30 to 2025-11-11	0.406	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
CCR-AP-7	Radium-226 & 228	Stable	Not Evaluated - Majority of data (>50%) non-detect.	24	16	0.619	-0.21	0.157	84.3	-58	NA	1.002	NA	12	5	2020-05-18 to 2025-11-13	0.614	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-1	Radium-226 & 228	No Trend	Stable	19	14	0.781	0.164	0.345	65.5	28	NA	1.074	NA	12	9	2020-03-31 to 2025-11-13	0.777	-0.152	0.537	46.3	-10	NA	1.462	NA
WAP-2RR	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect.	Stable	20	9	1.08	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	6	2020-03-31 to 2025-11-12	0.974	-0.152	0.537	46.3	-10	NA	0.6993	NA
WAP-3S	Radium-226 & 228	No Trend	Stable	19	13	0.554	0.0469	0.806	19.4	8	NA	0.8326	NA	12	8	2020-03-30 to 2025-11-12	0.577	-0.0606	0.837	16.3	-4	NA	1.026	NA
WAP-4S	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	20	6	1.11	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	4	2020-03-30 to 2025-11-11	1.03	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-5S	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	20	6	1.05	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	5	2020-03-30 to 2025-11-11	0.904	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
CCR-AP-7	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	25	4	0.259	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	2	2020-05-18 to 2025-11-13	0.163	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-1	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	21	3	0.115	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA	12	1	2019-10-28 to 2025-11-13	0.09	NA	NA	NA	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends. Units = milligrams per liter.

		Mann Kendall Trends		Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 12 most recent data points)									
				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)								Thiel-Sen Test (R programming, package = trend, version = 1.1.6, function = sens.slope, non-detects substituted by 0.5*reporting limit)		
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept	Sen Slope in Rate of Change Per Year
WAP-2RR	**Selenium, Total**	Not Evaluated - Majority of data (>50%) non-detect.	No Trend	**21**	**10**	**0.482**	**NA**	**Majority of data (>50%) non-detect.**	**NA**	**NA**	**NA**	**NA**	**NA**	12	10	2019-10-28 to 2025-11-12	0.455	0.246	0.301	69.9	16	NA	0.002662	NA
WAP-3S	**Selenium, Total**	Not Evaluated - No detected results.	Not Evaluated - No detected results.	**21**	**0**	**0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	12	0	2019-10-28 to 2025-11-12	0	NA	NA	NA	NA	NA	NA	NA
WAP-4S	**Selenium, Total**	Not Evaluated - No detected results.	Not Evaluated - No detected results.	**21**	**0**	**0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	12	0	2019-10-25 to 2025-11-11	0	NA	NA	NA	NA	NA	NA	NA
WAP-5S	**Selenium, Total**	Not Evaluated - No detected results.	Not Evaluated - No detected results.	**21**	**0**	**0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	12	0	2019-10-25 to 2025-11-11	0	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7	**Thallium, Total**	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Only one detected result.	**27**	**5**	**0.364**	**NA**	**Majority of data (>50%) non-detect.**	**NA**	**NA**	**NA**	**NA**	**NA**	12	1	2020-05-18 to 2025-11-13	0.265	NA	NA	NA	NA	NA	NA	NA
WAP-1	**Thallium, Total**	Increasing	Not Evaluated - Majority of data (>50%) non-detect.	**23**	**13**	**0.622**	**0.32**	**0.0434**	**95.7**	**75**	**1.031e-07**	**0.000305**	**3.765e-05**	12	5	2020-03-31 to 2025-11-13	0.557	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-2RR	**Thallium, Total**	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - Majority of data (>50%) non-detect.	**23**	**10**	**0.57**	**NA**	**Majority of data (>50%) non-detect.**	**NA**	**NA**	**NA**	**NA**	**NA**	12	2	2020-03-31 to 2025-11-12	0.37	NA	Majority of data (>50%) non-detect.	NA	NA	NA	NA	NA
WAP-3S	**Thallium, Total**	Not Evaluated - No detected results.	Not Evaluated - No detected results.	**23**	**0**	**0.2**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	12	0	2020-03-30 to 2025-11-12	0.266	NA	NA	NA	NA	NA	NA	NA
WAP-4S	**Thallium, Total**	Not Evaluated - No detected results.	Not Evaluated - No detected results.	**23**	**0**	**0.2**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	12	0	2020-03-30 to 2025-11-11	0.266	NA	NA	NA	NA	NA	NA	NA
WAP-5S	**Thallium, Total**	Not Evaluated - Majority of data (>50%) non-detect.	Not Evaluated - No detected results.	**23**	**2**	**0.3**	**NA**	**Majority of data (>50%) non-detect.**	**NA**	**NA**	**NA**	**NA**	**NA**	12	0	2020-03-30 to 2025-11-11	0.266	NA	NA	NA	NA	NA	NA	NA

Note:

Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends. Units = milligrams per liter.

Table A-5. Upper Tolerance Limits (UTLs) & Updated Groundwater Protection Standards (GWPS), Assessment Monitoring

		Interwell Background Data Characterization [a]												Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details			
Constituent	Units	n	n, non-detects	max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source	UTL calculation method	UTL calculation details	Minimum Coverage (%)	One-Sided tolerance factor (K)
Antimony, Total	mg/L	48	33	0.005	0.002	0.00173	0.002	2016-06-10	2025-05-16	0.000738	0.426	More than 50% NDs	Non-Parametric	NA - Original Data	0.005	No	0.006	0.006	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Arsenic, Total	mg/L	48	0	NA	0.025	0.0064	0.00485	2016-06-10	2025-05-16	0.00501	0.783	Decreasing	Parametric (lognormal trans)	Natural Logarithm	0.0241	NA	0.01	0.0241	UTL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Barium, Total	mg/L	48	0	NA	0.99	0.3	0.175	2016-06-10	2025-05-16	0.221	0.737	Stable	Non-Parametric	NA - Original Data	0.99	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Beryllium, Total	mg/L	48	27	0.001	0.0012	0.000726	0.001	2016-06-10	2025-05-16	0.000363	0.5	More than 50% NDs	Non-Parametric	NA - Original Data	0.0012	Yes	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Cadmium, Total	mg/L	48	36	0.001	0.00049	0.000803	0.001	2016-06-10	2025-05-16	0.000334	0.415	More than 50% NDs	Non-Parametric	NA - Original Data	0.001	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Chromium, Total	mg/L	48	16	0.01	0.046	0.00782	0.005	2016-06-10	2025-05-16	0.0095	1.22	No Trend	Parametric (lognormal trans)	Natural Logarithm	0.0374	NA	0.1	0.1	MCL/RSL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Cobalt, Total	mg/L	48	2	0.002	0.019	0.00344	0.00155	2016-06-10	2025-05-16	0.00432	1.26	Decreasing	Parametric (lognormal trans)	Natural Logarithm	0.0215	NA	0.006	0.0215	UTL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Fluoride	mg/L	47	0	NA	2	0.385	0.29	2016-08-12	2025-05-16	0.313	0.812	Increasing	Non-Parametric	NA - Original Data	2	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.8	NA
Lead, Total	mg/L	48	12	0.003	0.035	0.00603	0.00285	2016-06-10	2025-05-16	0.00786	1.3	No Trend	Parametric (lognormal trans)	Natural Logarithm	0.0396	NA	0.015	0.0396	UTL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Lithium, Total	mg/L	48	0	NA	0.039	0.0125	0.011	2016-06-10	2025-05-16	0.00617	0.494	Decreasing	Non-Parametric	NA - Original Data	0.039	Yes	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA
Mercury, Total	mg/L	43	42	0.0005	0.00032	0.000217	0.0002	2016-06-10	2025-05-16	6.59e-05	0.304	More than 50% NDs	Non-Parametric	NA - Original Data	0.0005	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.3	NA
Molybdenum, Total	mg/L	48	7	0.005	0.013	0.00298	0.00185	2016-06-10	2025-05-16	0.00253	0.848	Decreasing	Parametric (lognormal trans)	Natural Logarithm	0.0105	NA	0.1	0.1	MCL/RSL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.08
Radium-226 & 228	pCi/L	41	12	1.45	4.74	1.11	1.02	2016-06-10	2025-05-16	0.784	0.706	No Trend	Parametric (lognormal trans)	Natural Logarithm	3.68	NA	5	5	MCL/RSL	Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.1)	Background mean + K * Background Standard Deviation	95	2.12
Selenium, Total	mg/L	44	39	0.005	0.0028	0.0046	0.005	2016-06-10	2025-05-16	0.00116	0.253	More than 50% NDs	Non-Parametric	NA - Original Data	0.005	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.4	NA
Thallium, Total	mg/L	48	32	0.002	0.00063	0.000802	0.001	2016-06-10	2025-05-16	0.000436	0.544	More than 50% NDs	Non-Parametric	NA - Original Data	0.002	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9	NA

Note:

[a] Interwell background datasets are analyte specific and include data collected from background wells (CCR-AP-7 and WAP-1). Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed. Presented values are in original (untransformed) units.

[b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.

[c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.

Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification, Assessment Monitoring

			Confidence Interval (CI) Dataset										CI Calculation [a]				SSL Confirmation	Non-Parametric CI Statistics	
Location	Constituent	Units	n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	Overall Trend	Recent (12) Trend	Data handling	CI dataset distribution	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
WAP-3S	Lithium, Total	mg/L	12	0.13	0.077	0.0955	0.0973	0.0162	Increasing	Probably Increasing	Overall data trend, LCL calculation on recent (12) data	Normal	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	11	0.108	0.0869	0.04	Yes, SSL	NA	NA
WAP-3S	Molybdenum, Total	mg/L	12	1.1	0.39	0.555	0.652	0.247	Decreasing	Decreasing	Overall and recent data trend, LCL calculation about the recent (12) trend line	Normal	Regression-based LCL with confidence limits (Parametric Test for Trending Data)	11	0.507	0.17	0.10	Yes, SSL	NA	NA
WAP-4S	Molybdenum, Total	mg/L	12	0.58	0.42	0.475	0.482	0.0405	Increasing	Stable	Overall data trend, LCL calculation on recent (12) data	Not normal	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	11	0.508	0.457	0.10	Yes, SSL	NA	NA

Note:

Confidence intervals are calculated for analyte/well pairs with GWPS exceedances in the event dataset.

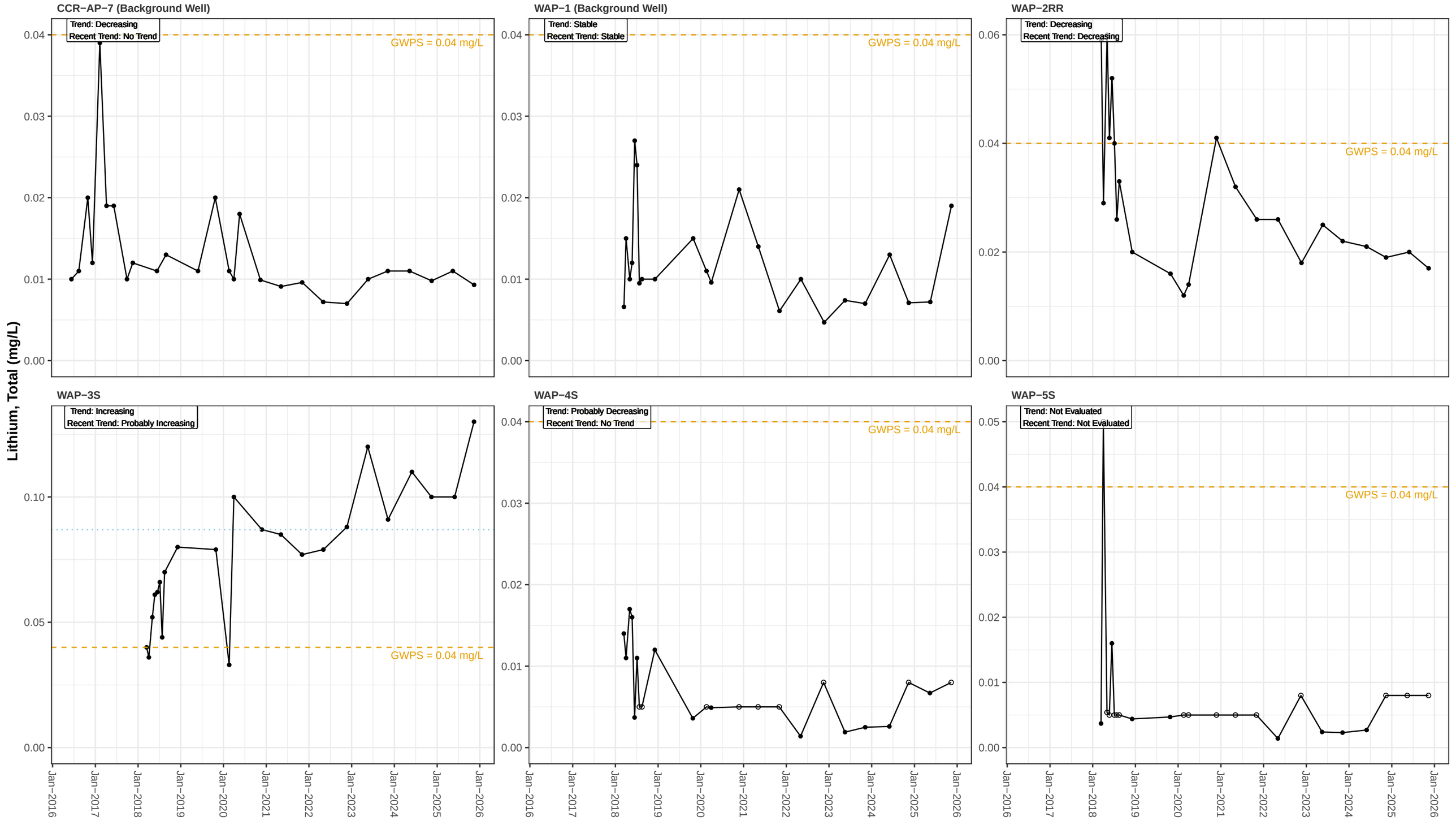
[a] The 95% lower confience level (LCL) is compared to the Groundwater Protection Standard (GWPS) to confirm a statistically significant level (SSL). The 95% upper confidence level (UCL) is also shown for purposes of comparison.

Table A-7. Groundwater Protection Standard (GWPS) Comparison Table

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-3S	Lithium, Total	mg/L	2025-11-12	0.13	0.039	0.04	Yes	0.0869	Yes
WAP-3S	Molybdenum, Total	mg/L	2025-11-12	0.39	0.0105	0.1	Yes	0.17	Yes
WAP-4S	Molybdenum, Total	mg/L	2025-11-11	0.51	0.0105	0.1	Yes	0.457	Yes
WAP-2RR	Antimony, Total	mg/L	2025-11-12	0.002 U	0.005	0.006	No	NA	No
WAP-3S	Antimony, Total	mg/L	2025-11-12	0.002 U	0.005	0.006	No	NA	No
WAP-4S	Antimony, Total	mg/L	2025-11-11	0.002 U	0.005	0.006	No	NA	No
WAP-5S	Antimony, Total	mg/L	2025-11-11	0.002 U	0.005	0.006	No	NA	No
WAP-2RR	Arsenic, Total	mg/L	2025-11-12	0.0013 J	0.0241	0.0241	No	NA	No
WAP-3S	Arsenic, Total	mg/L	2025-11-12	0.00084 J	0.0241	0.0241	No	NA	No
WAP-4S	Arsenic, Total	mg/L	2025-11-11	0.0076	0.0241	0.0241	No	NA	No
WAP-5S	Arsenic, Total	mg/L	2025-11-11	0.0021 J	0.0241	0.0241	No	NA	No
WAP-2RR	Barium, Total	mg/L	2025-11-12	0.044	0.99	2	No	NA	No
WAP-3S	Barium, Total	mg/L	2025-11-12	0.062	0.99	2	No	NA	No
WAP-4S	Barium, Total	mg/L	2025-11-11	0.048	0.99	2	No	NA	No
WAP-5S	Barium, Total	mg/L	2025-11-11	0.047	0.99	2	No	NA	No
WAP-2RR	Beryllium, Total	mg/L	2025-11-12	0.001 U	0.0012	0.004	No	NA	No
WAP-3S	Beryllium, Total	mg/L	2025-11-12	0.001 U	0.0012	0.004	No	NA	No
WAP-4S	Beryllium, Total	mg/L	2025-11-11	0.001 U	0.0012	0.004	No	NA	No
WAP-5S	Beryllium, Total	mg/L	2025-11-11	0.001 U	0.0012	0.004	No	NA	No
WAP-2RR	Cadmium, Total	mg/L	2025-11-12	0.00024 J	0.001	0.005	No	NA	No
WAP-3S	Cadmium, Total	mg/L	2025-11-12	0.001 U	0.001	0.005	No	NA	No
WAP-4S	Cadmium, Total	mg/L	2025-11-11	0.001 U	0.001	0.005	No	NA	No
WAP-5S	Cadmium, Total	mg/L	2025-11-11	0.001 U	0.001	0.005	No	NA	No
WAP-2RR	Chromium, Total	mg/L	2025-11-12	0.005 U	0.0374	0.1	No	NA	No
WAP-3S	Chromium, Total	mg/L	2025-11-12	0.005 U	0.0374	0.1	No	NA	No
WAP-4S	Chromium, Total	mg/L	2025-11-11	0.005 U	0.0374	0.1	No	NA	No
WAP-5S	Chromium, Total	mg/L	2025-11-11	0.005 U	0.0374	0.1	No	NA	No
WAP-2RR	Cobalt, Total	mg/L	2025-11-12	0.00082 J	0.0215	0.0215	No	NA	No
WAP-3S	Cobalt, Total	mg/L	2025-11-12	0.00094 J	0.0215	0.0215	No	NA	No
WAP-4S	Cobalt, Total	mg/L	2025-11-11	0.0013	0.0215	0.0215	No	NA	No
WAP-5S	Cobalt, Total	mg/L	2025-11-11	0.0072	0.0215	0.0215	No	NA	No
WAP-2RR	Fluoride	mg/L	2025-11-12	0.28	2	4	No	NA	No
WAP-3S	Fluoride	mg/L	2025-11-12	0.37	2	4	No	NA	No
WAP-4S	Fluoride	mg/L	2025-11-11	0.22	2	4	No	NA	No
WAP-5S	Fluoride	mg/L	2025-11-11	0.1	2	4	No	NA	No
WAP-2RR	Lead, Total	mg/L	2025-11-12	0.001 U	0.0396	0.0396	No	NA	No
WAP-3S	Lead, Total	mg/L	2025-11-12	0.001 U	0.0396	0.0396	No	NA	No
WAP-4S	Lead, Total	mg/L	2025-11-11	0.001 U	0.0396	0.0396	No	NA	No
WAP-5S	Lead, Total	mg/L	2025-11-11	0.001 U	0.0396	0.0396	No	NA	No
WAP-2RR	Lithium, Total	mg/L	2025-11-12	0.017	0.039	0.04	No	NA	No
WAP-4S	Lithium, Total	mg/L	2025-11-11	0.008 U	0.039	0.04	No	NA	No
WAP-5S	Lithium, Total	mg/L	2025-11-11	0.008 U	0.039	0.04	No	NA	No
WAP-2RR	Mercury, Total	mg/L	2025-11-12	0.0002 U	0.0005	0.002	No	NA	No
WAP-3S	Mercury, Total	mg/L	2025-11-12	0.0002 U	0.0005	0.002	No	NA	No
WAP-4S	Mercury, Total	mg/L	2025-11-11	0.0002 U	0.0005	0.002	No	NA	No
WAP-5S	Mercury, Total	mg/L	2025-11-11	0.0002 U	0.0005	0.002	No	NA	No
WAP-2RR	Molybdenum, Total	mg/L	2025-11-12	0.061	0.0105	0.1	No	NA	No
WAP-5S	Molybdenum, Total	mg/L	2025-11-11	0.005 U	0.0105	0.1	No	NA	No
WAP-2RR	Radium-226 & 228	pCi/L	2025-11-12	0.666 U	3.68	5	No	NA	No
WAP-3S	Radium-226 & 228	pCi/L	2025-11-12	1.09 J	3.68	5	No	NA	No
WAP-4S	Radium-226 & 228	pCi/L	2025-11-11	0.761 U	3.68	5	No	NA	No
WAP-5S	Radium-226 & 228	pCi/L	2025-11-11	0.542 UJ	3.68	5	No	NA	No
WAP-2RR	Selenium, Total	mg/L	2025-11-12	0.006	0.005	0.05	No	NA	No
WAP-3S	Selenium, Total	mg/L	2025-11-12	0.005 U	0.005	0.05	No	NA	No
WAP-4S	Selenium, Total	mg/L	2025-11-11	0.005 U	0.005	0.05	No	NA	No
WAP-5S	Selenium, Total	mg/L	2025-11-11	0.005 U	0.005	0.05	No	NA	No
WAP-2RR	Thallium, Total	mg/L	2025-11-12	0.001 U	0.002	0.002	No	NA	No
WAP-3S	Thallium, Total	mg/L	2025-11-12	0.001 U	0.002	0.002	No	NA	No
WAP-4S	Thallium, Total	mg/L	2025-11-11	0.001 U	0.002	0.002	No	NA	No
WAP-5S	Thallium, Total	mg/L	2025-11-11	0.001 U	0.002	0.002	No	NA	No

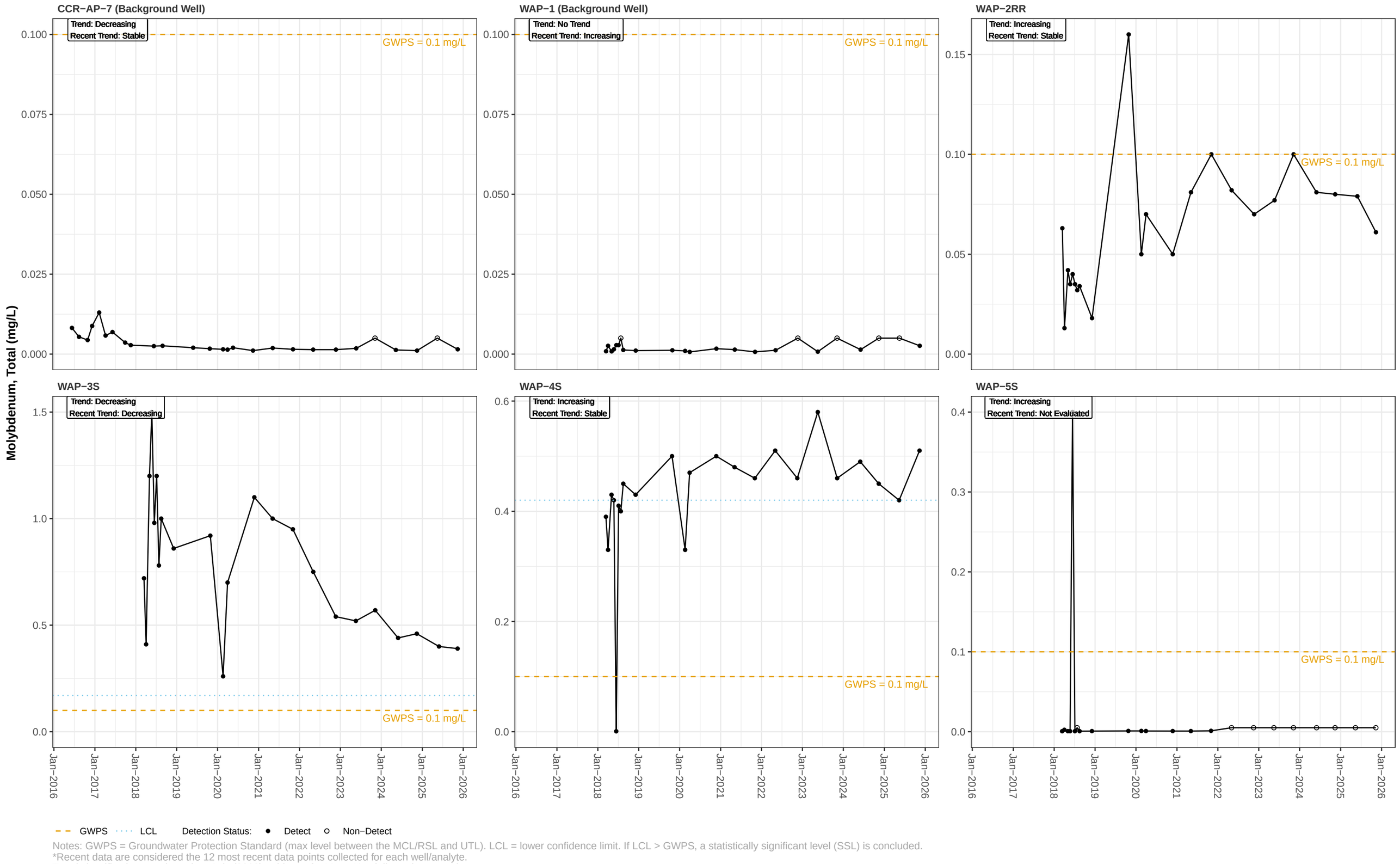
Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

Assessment Monitoring Trend Analysis for Lithium, Total



Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 12 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Assessment Monitoring Trend Analysis for Molybdenum, Total



Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 12 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

APPENDIX B
Field Forms

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	F. Reed
CONTRACTOR	Atlas	**SAMPLING DATE**	05/30/25

Sampling Data:

Well ID:	WAP-2RR	Well Depth as Built:	56.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	11:19	Well Depth Measured:	- ft	Initial Depth To Water:	36.48 ft	Field Parameter Device:	Horiba U-52
Finish Time:	11:50	Depth To Top Of Screen:	46.0 ft	Depth Of Pump Intake:	- ft	Tubing Present In Well:	☑ Yes ☐ No
		Depth To Bottom Of Scree	56.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
11:19	36.49	-	360	1	19.49	6.75	0.838	2.45	2.8	342	
11:24	36.49	-	360	2.8	19.31	6.84	0.816	0.69	0	338	
11:29	36.49	-	360	4.2	19.37	6.86	0.818	0.44	0	336	
11:34	36.5	-	360	6	19.42	6.87	0.82	0.37	0	334	
11:39	36.5	-	400	8	19.52	6.88	0.821	0.35	0	332	
11:44	36.5	-	400	10	19.29	6.89	0.823	0.33	0	330	
11:49	36.5	-	400	12	19.51	6.88	0.824	0.32	0	328	
											12.5L purged total

Sample ID:	WAP-2RR-053025	**Date:**	**5/30/2025**	**Time:**	**11:50**	**QAQC Samples:**	N/A

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	F. Reed
CONTRACTOR	Atlas	**SAMPLING DATE**	05/30/25

Sampling Data:

		Well Depth as Built:	70.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-3S	Well Depth Measured:	- ft	Initial Depth To Water:	34.43 ft	Field Parameter Device:	Horiba U-52
Start time:	14:06	Depth To Top Of Screen:	60.0 ft	Depth Of Pump Intake:	- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	15:05	Depth To Bottom Of Scree	70.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
14:06	34.44	-	300	0.5	20.22	9.53	0.785	2.5	10.9	180	
14:11	34.43	-	300	2	19.7	9.11	0.778	0.88	5.2	175	
14:16	34.33	-	300	3.5	19.57	8.87	0.781	0.49	2.8	159	
14:21	34.45	-	300	5	19.39	8.72	0.785	0.43	1.5	144	
14:26	34.47	-	300	6.5	19.3	8.61	0.788	0.41	1.4	130	
14:31	34.49	-	300	8	19	8.53	0.791	0.42	1	120	
14:36	34.48	-	300	9.5	18.96	8.47	0.794	0.39	1.2	110	
14:41	34.48	-	300	11	19.09	8.43	0.796	0.4	1.4	101	
14:46	34.48	-	300	12.5	19.1	8.39	0.798	0.39	1.4	93	
14:51	34.48	-	300	14	19.22	8.36	0.8	0.38	1.1	86	
14:55	34.48	-	300	15.5	19.72	8.33	0.799	0.38	1	80	
14:58	34.48	-	300	16.4	19.76	8.32	0.8	0.37	0.9	77	
15:01	34.48	-	300	17.3	19.81	8.31	0.8	0.37	1.1	73	
											18L purged total

Sample ID:	WAP-3S-053025	**Date:**	**5/30/2025**	**Time:**	**15:05**	**QAQC Samples:**	

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	F. Reed
CONTRACTOR	Atlas	**SAMPLING DATE**	05/302025

Sampling Data:

Well ID:	WAP-3D	Well Depth as Built:	82.5 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	15:20	Well Depth Measured:	- ft	Initial Depth To Water:	34.49 ft	Field Parameter Device:	Horiba U-52
Finish Time:	15:55	Depth To Top Of Screen:	72.5 ft	Depth Of Pump Intake:	- ft	Tubing Present In Well:	[x] Yes [ ] No
		Depth To Bottom Of Scree	82.5 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
15:20	34.49	-	300	1.5	19.8	8.05	0.955	1.79	0	99	
15:25	34.47	-	300	3	19.28	8.07	1.02	0.57	0	97	
15:30	34.49	-	300	4.5	19.63	8.07	1.02	0.44	0	95	
15:35	34.49	-	300	6	19.7	8.07	1.03	0.45	0	95	
15:40	34.47	-	300	7.5	19.73	8.05	1.03	0.39	0	96	
15:45	34.47	-	300	9	19.83	8.05	1.03	0.39	0	96	
15:50	34.47	-	300	10.5	19.47	8.04	1.03	0.39	0	97	
											11L purged total

Sample ID:	WAP-3D-053025	**Date:**	**5/30/2025**	**Time:**	**1555**	**QAQC Samples:**	N/A

well volume = 3.14 (PI) x radius^2 x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	F. Reed
CONTRACTOR	Atlas	**SAMPLING DATE**	05/30/25

Sampling Data:

		Well Depth as Built:	60.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-7S	Well Depth Measured:	- ft	Initial Depth To Water:	34.82 ft	Field Parameter Device:	Horiba U-52
Start time:	13.1	Depth To Top Of Screen:	50.0 ft	Depth Of Pump Intake:	- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	13.45	Depth To Bottom Of Scree	60.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
13:10	34.84	-	300	1	19.55	7.44	2.21	0.4	1.8	137	
13:15	34.85	-	300	2.5	20.13	10.05	0.996	0.69	0.2	143	
13:20	34.83	-	300	4	20.21	10.31	0.971	0.38	0	142	
13:25	34.84	-	300	5.5	20.31	10.4	0.969	0.34	0	142	
13:30	34.83	-	300	7	20	10.48	0.967	0.33	0	143	
13:35	34.86	-	300	8.5	20.26	10.51	0.964	0.31	0	143	
13:40	34.88	-	300	10	20.35	10.53	0.963	0.31	0	143	
											10.5L purged total

Sample ID:	WAP-7S-053029	**Date:**	**0/30/2025**	**Time:**	**13:45**	**QAQC Samples:**	

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	F. Reed
CONTRACTOR	Atlas	**SAMPLING DATE**	05/30/25

Sampling Data:

Well ID:	WAP-7D	Well Depth as Built:	78.6 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	12:19	Well Depth Measured:	- ft	Initial Depth To Water:	34.6 ft	Field Parameter Device:	Horiba U-52
Finish Time:	12:55	Depth To Top Of Screen:	68.5 ft	Depth Of Pump Intake:	- ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	78.6 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
12:19	34.59	-	360	0.2	20.14	7.35	2.22	3.05	2.5	313	
12:24	34.58	-	360	2	19.56	7.37	2.24	1.11	5	268	
12:29	34.57	-	360	3.8	19.73	7.4	2.24	0.6	6.3	219	
12:34	34.56	-	360	5.6	19.92	7.41	2.23	0.5	5.6	193	
12:39	34.58	-	360	7.4	29.89	7.42	2.22	0.45	5.3	175	
12:44	34.55	-	360	9.2	20	7.43	2.22	0.43	3.8	160	
12:49	34.55	-	360	11	19.74	7.44	2.21	0.42	3	147	
12:54	34.55	-	360	12.8	19.55	7.44	2.21	0.4	1.8	141	
											13.5L purged total

Sample ID:	WAP-7D-053025	**Date:**	**5/30/2025**	**Time:**	**12:55**	**QAQC Samples:**	

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	F. Reed
CONTRACTOR	Atlas	**SAMPLING DATE**	05/30/25

Sampling Data:

Well ID:	WAP-8S	Well Depth as Built:	50.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	17.24	Well Depth Measured:	- ft	Initial Depth To Water:	30.98 ft	Field Parameter Device:	Horiba U-52
Finish Time:	18:00	Depth To Top Of Screen:	40.0 ft	Depth Of Pump Intake:	- ft	Tubing Present In Well:	☑ Yes ☐ No
		Depth To Bottom Of Scree	50.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
17:24	30.99	-	400	0	19.94	7.75	7.75	0.778	104	88	
17:29	30.99	-	400	2	19.91	7.82	7.82	0.812	31.3	-43	
17:34	30.99	-	400	4	19.94	7.86	7.86	0.83	7.1	-83	
17:39	31	-	400	6	20.01	7.89	7.89	0.83	4.6	-96	
17:44	30.99	-	400	8	19.98	7.91	7.91	0.832	11.4	-105	
17:49	30.99	-	400	10	20.05	7.92	7.92	0.833	0	-111	
17:54	31	-	400	12	20.03	7.93	7.93	0.834	0	-115	
17:59	31	-	400	14	20	7.94	7.94	0.83	0	-119	
											19.5 L purged total

Sample ID:	WAP-8S-053025	**Date:**	**5/30/2025**	**Time:**	**18:00**	**QAQC Samples:**	N/A

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	F. Reed
CONTRACTOR	Atlas	**SAMPLING DATE**	05/30/25

Sampling Data:

		Well Depth as Built:	80.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-8I	Well Depth Measured:	- ft	Initial Depth To Water:	30.98 ft	Field Parameter Device:	Horiba U-52
Start time:	16:20	Depth To Top Of Screen:	70.0 ft	Depth Of Pump Intake:	- ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:	17:15	Depth To Bottom Of Scree	80.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
16:20	31	-	300	0.2	20.77	8.08	0.443	3.07	132	186	
16:25	31	-	300	1.5	20.79	8	0.43	0.78	48.2	154	
16:30	31	-	300	3	20.98	7.94	0.429	0.28	38	87	
16:35	31	-	300	4.5	2.2	7.92	0.43	0.24	10.5	56	
16:40	31	-	300	6	21.21	7.9	0.429	0.23	61.2	40	
16:45	31	-	300	7.5	21.13	7.88	0.431	0.23	7.1	21	
16:50	31	-	300	9	21.17	7.87	0.43	0.22	5.6	4	
16:55	31	-	300	10.5	21.21	7.86	0.43	0.22	4.4	-8	
17:00	31	-	300	12	21.26	7.86	0.43	0.2	3.1	-18	
17:05	31	-	300	14.5	21.08	7.86	0.429	0.21	1.8	-23	
17:10	31	-	300	16	21.22	7.84	0.43	0.2	3.4	-28	

Sample ID:	WAP-81I-053025	**Date:**	**5/30/2025**	**Time:**	**17:15**	**QAQC Samples:**	N/A

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

GROUNDWATER LEVEL MONITORING REPORT

Form FMG 5.1-01
Rev (06-09-09)

Project: F.B. Culley Generating Station	**Client:** Southern Indiana Gas & Electric Company (SIGECO)	**File Number:** 0129420-040
Location: Newburgh, IN.	**Weather:** cold, snow	**Project Manager:** Neal Kochis
Reference: Top of Casing	**Units:** Decimal Feet	**Field Representative:** R. Elwer
Method: Dip	**Comments:** --	

Monitoring Well ID	Area of Interest	Date	Time	Well Dry? (Y/N)	Depth to Water	Depth to Well Bottom (Measured)	Depth to Well Bottom (Table)	Top of Riser Elevation	Remarks	Measured By
CCR-AP-1R	Background	11/10/2025	15:38	N	53.91	--	65.0	441.64	--	RE
CCR-AP-9	Background	11/10/2025	15:43	Y	--	--	70.0	448.53	--	RE
CCR-AP-7	Background	11/10/2025	14:40	N	14.67	--	30.0	432.41	--	RE
WAP-1	Background	11/10/2025	15:54	N	13.34	--	36.0	403.42	--	RE
WAP-2RR	WAP Shallow	11/10/2025	13:31	N	37.05	--	56.0	390.85	--	RE
WAP-3S	WAP Shallow	11/10/2025	13:28	N	33.76	--	70.0	387.51	--	RE
WAP-3D	WAP Deep	11/10/2025	13:27	N	33.72	--	82.5	387.56	--	RE
WAP-4S	WAP Shallow	11/10/2025	13:11	N	29.4	--	45.0	384.19	--	RE
WAP-4I	WAP Intermediate	11/10/2025	13:12	N	29.41	--	75.0	384.11	--	RE
WAP-4D	WAP Deep	11/10/2025	13:13	N	31.05	--	116.0	384.13	--	RE
WAP-5S	WAP Shallow	11/10/2025	13:47	N	28.29	--	40.0	384.26	--	RE
WAP-5I	WAP Intermediate	11/10/2025	13:48	N	28.08	--	75.0	384.26	--	RE
WAP-5D	WAP Deep	11/10/2025	13:49	N	28.45	--	113.0	384.28	--	RE
WAP-6S	WAP Shallow	11/10/2025	12:58	N	32.77	--	50.0	385.44	--	RE
WAP-6I	WAP Intermediate	11/10/2025	13:02	N	33.08	--	80.0	385.43	--	RE
WAP-6D	WAP Deep	11/10/2025	13:00	N	37.35	--	115.5	385.37	--	RE
WAP-7S	WAP Shallow	11/10/2025	13:33	N	34.96	--	60.0	388.52	--	RE
WAP-7D	WAP Deep	11/10/2025	13:34	N	34.43	--	78.6	388.81	--	RE
WAP-8S	WAP Shallow	11/10/2025	13:20	N	29.84	--	50.0	384.16	--	RE

GROUNDWATER LEVEL MONITORING REPORT

Form FMG 5.1-01
Rev (06-09-09)

Project: F.B. Culley Generating Station	**Client:** Southern Indiana Gas & Electric Company (SIGECO)	**File Number:** 0129420-040
Location: Newburgh, IN.	**Weather:** cold, snow	**Project Manager:** Neal Kochis
Reference: Top of Casing	**Units:** Decimal Feet	**Field Representative:** R.Elwer
Method: Dip	**Comments:** --	

Monitoring Well ID	Area of Interest	Date	Time	Well Dry? (Y/N)	Depth to Water	Depth to Well Bottom (Measured)	Depth to Well Bottom (Table)	Top of Riser Elevation	Remarks	Measured By
WAP-8I	WAP Intermediate	11/10/2025	13:19	N	29.93	--	80.0	384.29	--	RE
WAP-8D	WAP Deep	11/10/2025	13:18	N	31.48	--	107.0	384.12	--	RE
WAP-9S	WAP Shallow	11/10/2025	13:04	N	39.45	--	65.0	392.56	--	RE
WAP-9I	WAP Intermediate	11/10/2025	13:05	N	40.81	--	90.0	392.68	--	RE
WAP-9D	WAP Deep	11/10/2025	13:06	N	43.83	--	126.5	392.48	--	RE
PZ-2	WAP Shallow	--	--	--	--	--	12.0	388.40	Not on figure	--
PZ-3	WAP Shallow	11/10/2025	14:28	N	10.33	--	18.0	394.20	--	RE
PZ-4	WAP Shallow	--	--	--	--	--	20.0	401.60	Unable to locate	RE
PZ-5	WAP Shallow	11/10/2025	14:22	N	--	--	28.0	388.00	--	RE
PZ-6	WAP Shallow	11/10/2025	15:52	N	13.35	--	28.0	403.90	--	RE
PZ-7	WAP Shallow	11/10/2025	15:49	N	12.85	--	28.0	400.80	--	RE
CCR-AP-2	EAP Shallow	11/10/2025	15:21	N	38.47	--	46.0	394.02	--	RE
CCR-AP-3	EAP Shallow	--	--	--	Dry	--	45.0	394.55	--	RE
CCR-AP-4	EAP Shallow	11/10/2025	15:25	N	20.77	--	35.5	394.98	--	RE
CCR-AP-5	EAP Shallow	11/10/2025	15:33	N	28.70	--	44.0	394.38	--	RE
CCR-AP-5I	EAP Deep	11/10/2025	15:32	N	30.08	--	85.3	394.48	--	RE
CCR-AP-6	EAP Shallow	11/10/2025	16:05	Y	Dry	--	45.5	396.75	--	RE
CCR-AP-6I	EAP Deep	11/10/2025	16:06	N	50.96	--	74.7	396.88	--	RE
CCR-AP-8	EAP Shallow	11/10/2025	15:16	N	41.83	--	45.5	393.68	--	RE

GROUNDWATER LEVEL MONITORING REPORT

Form FMG 5.1-01
Rev (06-09-09)

Project: F.B. Culley Generating Station	**Client:** Southern Indiana Gas & Electric Company (SIGECO)	**File Number:** 0129420-040
Location: Newburgh, IN.	**Weather:** cold, snow	**Project Manager:** Neal Kochis
Reference: Top of Casing	**Units:** Decimal Feet	**Field Representative:** R.Elwer
Method: Dip	**Comments:** --	

Monitoring Well ID	Area of Interest	Date	Time	Well Dry? (Y/N)	Depth to Water	Depth to Well Bottom (Measured)	Depth to Well Bottom (Table)	Top of Riser Elevation	Remarks	Measured By
CCR-AP-8I	EAP Deep	11/10/2025	15:14	N	51.00	--	68.7	393.46	--	RE
CCR-AP-11	EAP Shallow	11/11/2025	10:05	N	19.17	--	54.4	385.10	--	RE
CCR-AP-12I	EAP Deep	11/10/2025	15:07	N	49.49	--	65.5	394.10	--	RE

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R. Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/13/25

Sampling Data:

Well ID:	CCR-AP-7	Well Depth as Built:	30.0 ft	Well Diameter:	2.0 in	Sampling Device:	Hydrasleeve
Start time:	9:30	Well Depth Measured:	-- ft	Initial Depth To Water:	14.14 ft	Field Parameter Device:	Horiba U-52
Finish Time:		Depth To Top Of Screen:	20.0 ft	Depth Of Pump Intake:	26 ft	Tubing Present In Well:	☐ Yes ☒ No
		Depth To Bottom Of Scree	30.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
9:35	14.88	160	160	0.8	17.30	6.75	0.708	3.16	21.5	134	
9:40	15.34	120	120	1.4	17.83	6.64	0.726	1.68	0	-57	
9:45	15.73	120	120	2.0	18.06	6.62	0.734	1.38	0	-86	
9:50	15.97	100	100	2.5	18.18	6.61	0.738	1.24	0	-101	
9:55	16.25	100	100	3.0	18.39	6.6	0.742	1.16	0	-109	
10:00	16.41	100	100	3.5	18.63	6.61	0.745	1.08	0	-114	
10:05	16.51	100	100	4.0	18.73	6.61	0.744	1.03	0	-115	
10:10	16.62	100	100	4.5	18.77	6.61	0.745	1.03	0	-118	
10:15	16.72	100	100	5.0	18.81	6.60	0.744	0.96	0	-118	
10:20	16.82	100	100	5.5	18.85	6.59	0.744	0.94	0	-118	Stable

Sample ID:	CCR-AP-7-111325	**Date:**	11/13/2025	**Time:**	10:20	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R. Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/13/25

Sampling Data:		Well Depth as Built:	36.0 ft	Well Diameter:	2.0 in	Sampling Device:	Hydrasleeve
Well ID:	WAP-1	Well Depth Measured:	-- ft	Initial Depth To Water:	14.46 ft	Field Parameter Device:	Horiba U-52
Start time:	11:35	Depth To Top Of Screen:	26.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	☐ Yes ☒ No
Finish Time:	11:55	Depth To Bottom Of Scree	36.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
11:40	14.46	--	--	--	19.33	6.53	1.08	11.31	434	-63	Hydrasleeve - hole in sleeve 5 total bottles
											approximately 100mL for radium

Sample ID:	WAP-1-111325	**Date:**	11/13/2025	**Time:**	11:40	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/12/25

Sampling Data:		Well Depth as Built:	56.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-2RR	Well Depth Measured:	-- ft	Initial Depth To Water:	36.75 ft	Field Parameter Device:	Horiba U-52
Start time:	13:50	Depth To Top Of Screen:	46.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	14:30	Depth To Bottom Of Scree	56.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
13:50	36.74	180	180	0	27.13	8.02	0.560	1.47	0.0	77	
13:55	36.75	180	180	0.9	25.44	6.55	0.570	0.38	0.0	128	
14:00	36.76	180	180	1.8	24.69	6.52	0.567	0.28	0.0	136	
14:05	36.78	180	180	2.7	24.76	6.52	0.561	0.25	0.0	135	
14:10	36.81	180	180	3.6	24.46	6.52	0.562	0.24	0.0	134	
14:15	36.82	180	180	4.5	24.23	6.51	0.564	0.24	0.0	131	
14:20	36.83	180	180	5.4	24.06	6.50	0.565	0.23	0.0	132	Stable

Sample ID:	WAP-2RR-111225	**Date:**	11/12/2025	**Time:**	14:30	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/12/25

Sampling Data:

Well ID:	WAP-3S	Well Depth as Built:	70.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	7:49	Well Depth Measured:	-- ft	Initial Depth To Water:	34.29 ft	Field Parameter Device:	Horiba U-52
Finish Time:	8:30	Depth To Top Of Screen:	60.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
		Depth To Bottom Of Scree	70.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
7:49	33.95	140	140	0	16.22	6.20	0.756	1.93	40.9	69	
7:54	33.80	140	140	0.7	17.00	7.03	0.820	1.04	40.4	-32	
7:59	33.73	140	140	1.4	17.39	7.28	0.850	0.65	21.9	-69	
8:04	33.62	140	140	2.1	17.60	7.37	0.863	0.53	7.9	-77	
8:09	33.65	140	140	2.8	17.74	7.41	0.868	0.45	2	-83	
8:14	33.54	140	140	3.5	17.83	7.44	0.870	0.41	0.1	-85	
8:19	33.52	140	140	4.2	17.92	7.45	0.870	0.40	0	-88	
8:24	33.51	140	140	4.9	17.45	7.47	0.870	0.39	0	-90	Stable

Sample ID:	WAP-3S-111225	**Date:**	11/12/2025	**Time:**	8:30	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/12/25

Sampling Data:		Well Depth as Built:	82.5 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-3D	Well Depth Measured:	-- ft	Initial Depth To Water:	34.28 ft	Field Parameter Device:	Horiba U-52
Start time:	9:12	Depth To Top Of Screen:	72.5 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	9:50	Depth To Bottom Of Scree	82.5 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
9:12	34.37	240	240	0	17.27	7.18	0.977	0.74	1.0	-45	
9:17	34.30	240	240	1.2	17.95	7.27	1.03	0.40	1.0	-21	
9:22	34.06	240	240	2.4	18.07	7.29	1.04	0.36	0.3	-7	
9:27	33.86	240	240	3.6	18.13	7.28	1.04	0.32	0.0	1	
9:32	33.76	240	240	4.8	18.19	7.28	1.04	0.31	0.0	5	
9:37	33.67	240	240	6.0	18.24	7.27	1.04	0.30	0.0	6	
9:42	33.59	240	240	7.2	18.29	7.25	1.04	0.28	0.0	8	Stable

Sample ID:	WAP-3D-111225	**Date:**	11/12/2025	**Time:**	9:50	**QAQC Samples:**	DUP-2-111225

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/11/25

Sampling Data:

Well ID:	WAP-4S	Well Depth as Built:	45.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	8:28	Well Depth Measured:	- ft	Initial Depth To Water:	28.58 ft	Field Parameter Device:	Horiba
Finish Time:	9:35	Depth To Top Of Screen:	35.0 ft	Depth Of Pump Intake:	- ft	Tubing Present In Well:	[X] Yes [ ] No
		Depth To Bottom Of Scree	45.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
8:28	28.62	100	100	0.5	14.19	6.91	1.12	2.19	366	-20	Top of pump = 37.95'
8:33	28.71	100	100	1.0	14.42	7.00	1.11	1.72	288	-32	
8:38	29.03	100	100	1.5	15.85	7.10	1.09	0.97	224	-74	
8:43	29.12	100	100	2.0	15.99	7.10	1.09	0.92	173	-82	
8:48	29.23	100	100	2.5	16.12	7.10	1.10	0.80	72.7	-89	
8:53	29.36	100	100	3.0	16.29	7.10	1.11	0.73	41.3	-94	
8:58	29.28	100	100	3.5	16.48	7.11	1.11	0.79	28.1	-97	Water level starts rising
9:03	29.18	100	100	4.0	16.58	7.11	1.10	0.81	20.1	-99	
9:08	29.02	100	100	4.5	16.62	7.11	1.10	0.84	12.8	-102	
9:13	28.91	100	100	5.0	16.61	7.12	1.09	0.93	6.9	-106	
9:18	28.79	100	100	5.5	16.64	7.12	1.09	1.09	3.1	-109	
9:23	28.76	100	100	6.0	16.63	7.13	1.08	1.15	5.8	-110	
9:28	28.72	100	100	6.5	16.62	7.14	1.08	1.15	0.5	-111	Stable

Sample ID:	WAP-4S-111125	**Date:**	11/11/2025	**Time:**	9:35	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/11/25

Sampling Data:		Well Depth as Built:	75.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-4I	Well Depth Measured:	-- ft	Initial Depth To Water:	29.29 ft	Field Parameter Device:	Horiba U-52
Start time:	10:42	Depth To Top Of Screen:	65.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	11:30	Depth To Bottom Of Scree	75.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
10:42	29.57	120	120	0.0	15.95	7.40	0.312	0.74	7.5	-38	Top of pump = 68.42'
10:47	29.31	120	120	0.6	16.87	7.31	0.302	0.53	0.0	-55	Water level rising
10:52	29.12	120	120	1.2	17.14	7.31	0.300	0.47	0.0	-60	
10:57	28.96	120	120	1.8	17.42	7.31	0.298	0.45	0.0	-64	
11:02	28.83	120	120	2.4	17.56	7.30	0.298	0.43	0.0	-67	
11:07	28.76	120	120	3.0	17.72	7.31	0.296	0.41	0.0	-68	
11:12	28.72	240	240	4.2	17.89	7.30	0.296	0.41	0.0	-70	Increased to 240 mL/min
11:17	28.67	240	240	5.4	18.41	7.30	0.295	0.39	0.0	-76	Increased to 240 mL/min
11:22	28.66	240	240	6.6	18.58	7.31	0.294	0.41	0.0	-77	Stable

Sample ID:	WAP-4I-111125	**Date:**	11/11/2025	**Time:**	11:30	**QAQC Samples:**	MS/MSD

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/11/25

Sampling Data:

Well ID:	WAP-4D	Well Depth as Built:	116.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	12:48	Well Depth Measured:	-- ft	Initial Depth To Water:	30.2 ft	Field Parameter Device:	Horiba U-52
Finish Time:	13:40	Depth To Top Of Screen:	106.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
		Depth To Bottom Of Scree	116.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
12:48	30.17	140	140	0.7	17.60	7.45	0.316	1.06	1.2	-132	Top of pump = cannot reach with water level
12:53	30.15	140	140	1.4	17.76	7.47	0.318	1.70	0.0	-159	
12:58	30.14	140	140	2.1	17.80	7.50	0.318	2.40	0.0	-170	
13:03	30.13	140	140	2.8	17.83	7.52	0.318	2.93	0.0	-175	
13:08	30.12	140	140	3.5	17.83	7.51	0.318	3.21	0.0	-178	
13:13	30.36	140	140	4.2	17.93	7.52	0.317	3.56	0.0	-181	
13:18	30.87	140	140	4.9	17.99	7.53	0.318	3.75	0.0	-185	
13:23	31.24	140	140	5.6	18.02	7.52	0.318	3.91	0.0	-186	
13:28	31.44	140	140	6.3	17.95	7.53	0.318	3.74	0.0	-186	
13:33	31.59	140	140	7.0	17.99	7.52	0.319	3.74	0.0	-185	
13:38	31.64	140	140	7.7	17.96	7.54	0.319	3.73	0.0	-185	Stable

Sample ID:	WAP-4D-1125	**Date:**	11/11/2025	**Time:**	13:40	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R.Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/11/25

Sampling Data:		Well Depth as Built:	40.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-5S	Well Depth Measured:	-- ft	Initial Depth To Water:	28.35 ft	Field Parameter Device:	Horiba U-52
Start time:	16:00	Depth To Top Of Screen:	30.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	17:00	Depth To Bottom Of Scree	40.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
16:05	28.67	200	200	0.5	16.99	6.16	4.02	3.44	7.2	132	
16:10	28.98	200	200	1	17.34	5.89	5.30	1.87	9.8	109	
16:15	29.05	200	200	2	17.22	5.85	5.51	1.24	2.8	87	
16:20	29.19	200	200	3	17.19	5.84	5.53	1.09	1.0	77	
16:25	29.17	160	160	3.6	17.10	5.83	5.53	1.03	0.0	68	
16:30	29.25	160	160	--	17.07	5.83	5.50	1.02	0.0	61	
16:35	29.32	160	160	--	17.06	5.83	5.49	1.00	0.0	60	Stable

Sample ID:	WAP-5S-111125	**Date:**	11/11/2025	**Time:**	**16:35**	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R.Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/11/25

Sampling Data:

Well ID:	WAP-5I	Well Depth as Built:	75.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	15:00	Well Depth Measured:	-- ft	Initial Depth To Water:	28.56 ft	Field Parameter Device:	Horiba U-52
Finish Time:	16:00	Depth To Top Of Screen:	65.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
		Depth To Bottom Of Scree	75.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
15:05	28.56	200	200	1.0	17.05	6.71	0.981	3.02	20.6	101	
15:10	28.47	200	200	2.0	17.59	6.56	0.998	1.76	32.3	70	
15:15	28.39	200	200	3.0	17.83	6.52	1.00	1.38	28.9	43	
15:20	28.38	240	240	4.2	17.98	6.48	1.00	1.21	22.0	23	
15:25	28.21	240	240	5.4	18.02	6.46	1.00	1.15	11.7	11	
15:30	28.19	240	240	6.6	18.11	6.44	1.00	1.08	7.6	4	
15:35	28.17	240	240	7.8	18.18	6.45	1.00	1.02	5.6	-2	
15:40	28.17	240	240	9.0	18.18	6.44	1.00	0.99	3.5	-7	
15:45	28.15	240	240	10.2	18.19	6.43	1.00	0.98	3.1	-9	Stable

Sample ID:	WAP-5I-111125	**Date:**	11/11/2025	**Time:**	15:45	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R. Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/11/25

Sampling Data:		Well Depth as Built:	113.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-5D	Well Depth Measured:	-- ft	Initial Depth To Water:	28.84 ft	Field Parameter Device:	Horiba U-52
Start time:	13:25	Depth To Top Of Screen:	103.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	15:00	Depth To Bottom Of Scree	113.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
13:35	28.94	120	120	0.6	15.74	6.71	1.08	2.78	13.3	170	
13:40	28.88	120	120	1.2	16.60	6.54	1.11	1.80	6.7	9	
13:45	28.66	120	120	1.8	16.79	6.50	1.12	1.50	1.4	-48	
13:50	28.54	120	120	2.4	16.84	6.52	1.12	1.33	0.5	-60	
13:55	28.44	120	120	3.0	16.98	6.51	1.13	1.32	0.0	-76	
14:00	28.36	120	120	3.6	17.02	6.50	1.13	1.22	0.0	-83	
14:05	28.34	120	120	4.2	16.97	6.50	1.13	1.11	0.0	-85	
14:10	28.32	120	120	5.8	16.92	6.50	1.13	1.13	0.0	-88	
14:15	28.29	120	120	6.4	17.01	6.50	1.13	1.12	0.0	-89	Stable

Sample ID:	WAP-5D-111125	**Date:**	11/11/2025	**Time:**	14:15	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R.Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/13/25

Sampling Data:

		Well Depth as Built:	50.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-6S	Well Depth Measured:	-- ft	Initial Depth To Water:	31.45 ft	Field Parameter Device:	Horiba U-52
Start time:	7:15	Depth To Top Of Screen:	40.0 ft	Depth Of Pump Intake:	44 ft	Tubing Present In Well:	☐ Yes ☒ No
Finish Time:	9:15	Depth To Bottom Of Scree	50.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
7:25	31.49	200	200	1.0	16.27	6.29	0.619	10.35	80.5	233	
7:30	31.46	200	200	1.2	16.88	6.40	0.619	2.44	77.1	226	
7:40	31.44	200	200	4.0	17.29	6.46	0.610	1.58	23.1	210	
7:45	31.49	200	200	5.0	17.33	6.50	0.600	1.41	12.2	190	
7:50	31.51	200	200	6.0	17.36	6.53	0.592	1.35	1.2	174	
7:55	31.49	200	200	7.0	17.38	6.54	0.579	1.25	0.0	142	
8:00	31.49	200	200	8.0	17.40	6.56	0.573	1.24	0.0	125	
8:05	31.49	200	200	9.0	17.44	6.58	0.568	1.19	0.0	103	
8:10	31.48	200	200	10.0	17.46	6.59	0.564	1.12	0.0	80	
8:15	31.49	200	200	11.0	17.50	6.60	0.562	1.07	0.0	68	
8:20	31.49	200	200	12.0	17.52	6.61	0.559	1.04	0.0	54	
8:25	31.48	200	200	13.0	17.52	6.61	0.556	1.03	0.0	42	
8:30	31.31	200	200	14.0	17.53	6.63	0.553	0.96	0.0	34	
8:40	31.30	200	200	16.0	17.55	6.63	0.552	0.93	0.0	23	
8:45	31.28	200	200	17.0	17.56	6.64	0.552	0.91	0.0	16	
8:50	31.27	200	200	18.0	17.56	6.65	0.550	0.93	0.0	14	Stable

Sample ID:	WAP-6S-111325	**Date:**	11/13/2025	**Time:**	8:50	**QAQC Samples:**	Field Blank: FB-1-111325 at 8:00

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R.Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/11/25

Sampling Data:		Well Depth as Built:	80.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-6I	Well Depth Measured:	-- ft	Initial Depth To Water:	32.01 ft	Field Parameter Device:	Horiba U-52
Start time:	8:30	Depth To Top Of Screen:	70.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	10:25	Depth To Bottom Of Scree	80.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
8:45	32.53	120	120	0.6	14.35	5.75	1.14	9.25	32.4	239	
8:50	32.72	100	100	1.1	15.19	6.26	0.996	2.52	31.2	209	
8:55	32.64	100	100	1.6	15.23	6.36	0.989	2.32	30.5	196	
9:00	32.15	100	100	2.1	15.36	6.43	0.977	2.07	19.1	159	
9:05	32.79	100	100	2.7	15.59	6.52	0.969	1.88	13.0	105	
9:10	32.54	100	100	3.2	15.92	6.56	0.966	1.72	5.8	46	
9:15	32.65	100	100	3.8	15.97	6.59	0.965	1.66	4.7	18	
9:20	32.34	100	100	4.3	16.04	6.60	0.964	1.59	3.7	-5	
9:25	32.28	100	100	4.8	16.07	6.61	0.964	1.56	3.3	-16	
9:30	32.19	100	100	5.3	16.11	6.62	0.964	1.52	2.0	-26	
9:35	32.15	100	100	5.8	16.10	6.62	0.964	1.50	1.1	-33	
9:40	32.14	100	100	6.2	16.10	6.62	0.964	1.49	1.1	-36	Stable

Sample ID:	WAP-6I-111125	**Date:**	11/11/2025	**Time:**	9:40	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R. Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/11/25

Sampling Data:		Well Depth as Built:	115.5 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-6D	Well Depth Measured:	-- ft	Initial Depth To Water:	36.24 ft	Field Parameter Device:	Horiba U-52
Start time:	10:25	Depth To Top Of Screen:	105.5 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	12:20	Depth To Bottom Of Scree	115.5 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
10:35	36.79	120	120	0.5	15.96	6.86	1.01	3.98	9.1	135	
10:40	36.92	120	120	1.1	16.27	6.69	0.998	2.71	6	85	
10:45	37.03	120	120	1.7	16.35	6.66	0.998	2.21	1.6	-22	
10:50	36.45	120	120	2.3	16.35	6.66	1.00	1.94	0.5	-51	
10:55	35.52	120	120	2.9	16.48	6.62	1.00	1.50	0	-73	
11:00	34.87	120	120	4.2	16.70	6.63	1.00	1.34	0	-93	
11:05	34.72	120	120	4.8	16.73	6.65	1.00	1.28	0	-97	
11:10	34.68	120	120	5.4	17.03	6.64	1.00	1.23	0	-99	
11:15	34.62	120	120	6.0	17.25	6.65	1.00	1.20	0	-102	
11:20	34.59	120	120	6.6	17.35	6.64	1.00	1.22	0	-103	Stable

Sample ID:	WAP-6D-111125	**Date:**	11/11/2025	**Time:**	11:25	**QAQC Samples:**	DUP-1-111125 at 11:30

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/12/25

Sampling Data:		Well Depth as Built:	60.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-7S	Well Depth Measured:	-- ft	Initial Depth To Water:	34.89 ft	Field Parameter Device:	Horiba U-52
Start time:	12:31	Depth To Top Of Screen:	50.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	13:05	Depth To Bottom Of Scree	60.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
12:31	34.93	180	180	0	22.42	9.55	0.894	1.69	12	-135	
12:36	34.95	180	180	0.9	20.91	10.22	0.908	0.64	7.4	-174	
12:41	34.87	180	180	1.8	20.41	10.44	0.923	0.39	2.1	-188	
12:46	34.83	180	180	2.7	20.16	10.47	0.927	0.35	0.1	-191	
12:51	34.78	180	180	3.6	20.17	10.45	0.929	0.33	0.0	-192	
12:56	34.75	180	180	4.5	20.21	10.41	0.929	0.30	0.0	-189	
13:01	34.69	180	180	5.4	20.11	10.39	0.929	0.30	0.0	-191	Stable

Sample ID:	WAP-7S-111225	**Date:**	11/12/2025	**Time:**	13:05	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/12/25

Sampling Data:

Well ID:	WAP-7D	Well Depth as Built:	78.6 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	11:03	Well Depth Measured:	-- ft	Initial Depth To Water:	34.62 ft	Field Parameter Device:	Horiba U-52
Finish Time:	11:40	Depth To Top Of Screen:	68.5 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
		Depth To Bottom Of Scree	78.6 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
11:03	34.6	140	140	0	19.02	6.96	2.02	0.93	0.0	-87	
11:08	34.51	140	140	0.7	19.03	6.95	2.03	0.78	0.0	-87	
11:13	34.48	140	140	1.4	19.11	6.94	2.03	0.60	0.0	-83	
11:18	34.44	140	140	2.1	19.09	6.90	2.03	0.52	0.0	-80	
11:23	34.41	140	140	2.8	19.29	6.90	2.03	0.50	0.0	-81	
11:28	34.38	140	140	3.5	19.40	6.91	2.03	0.47	0.0	-81	
11:33	34.36	140	140	4.2	19.55	6.91	2.03	0.46	0.0	-81	Stable

Sample ID:	WAP-7D-111225	**Date:**	11/12/2025	**Time:**	11:40	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/11/25

Sampling Data:		Well Depth as Built:	50.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-8S	Well Depth Measured:	-- ft	Initial Depth To Water:	30.42 ft	Field Parameter Device:	Horiba U-52
Start time:	14:59	Depth To Top Of Screen:	40.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	15:55	Depth To Bottom Of Scree	50.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
14:59	30.53	140	140	0.7	16.57	7.24	0.929	7.52	24.4	-149	Top of pump = 43.25'
15:04	30.52	140	140	1.4	17.26	7.31	0.989	7.75	30.5	-166	
15:09	30.21	200	200	2.4	17.62	7.29	1.01	6.92	16.6	-167	Increased to 200 mL/mindue to water level rising
15:14	29.94	200	200	3.4	17.74	7.30	1.01	6.81	16.8	-170	
15:19	29.78	200	200	4.4	17.79	7.30	1.01	6.61	18.1	-171	
15:24	29.64	200	200	5.4	17.81	7.30	1.01	6.49	15.7	-171	
15:29	29.56	200	200	6.4	17.80	7.30	1.01	6.22	13.7	-173	
15:34	29.50	200	200	7.4	17.83	7.31	1.01	6.16	11.3	-174	
15:39	29.46	200	200	8.4	17.82	7.31	1.01	5.97	7.8	-174	
15:44	29.44	200	200	9.4	17.81	7.32	1.00	6.00	9.6	-175	
15:49	29.42	200	200	10.4	17.84	7.32	1.00	5.72	0.0	-176	
15:54	29.41	200	200	11.4	17.82	7.31	1.00	5.54	0.0	-176	Stable

Sample ID:	WAP-8S-111125	**Date:**	11/11/2025	**Time:**	15:55	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R.Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/12/25

Sampling Data:		Well Depth as Built:	80.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-8I	Well Depth Measured:	-- ft	Initial Depth To Water:	30.44 ft	Field Parameter Device:	Horiba U-52
Start time:	7:30	Depth To Top Of Screen:	70.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	8:35	Depth To Bottom Of Scree	80.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
7:35	30.48	240	240	1.2	10.85	5.78	0.376	4.16	21.5	273	
7:40	30.63	240	240	2.4	16.85	6.33	0.292	2.00	23.5	245	
7:45	30.36	240	240	3.6	16.75	6.52	0.285	1.62	10.2	186	
7:50	30.15	240	240	4.8	16.93	6.62	0.284	1.47	5.9	79	
7:55	29.93	320	320	6.4	17.02	6.64	0.284	1.40	4.4	23	
8:00	29.84	320	320	8.0	17.04	6.67	0.284	1.32	0.0	-10	
8:05	29.69	320	320	9.6	17.06	6.70	0.283	1.27	0.0	-26	
8:10	29.67	320	320	11.2	17.10	6.71	0.283	1.20	0.0	-36	
8:15	29.65	320	320	12.8	17.14	6.72	0.283	1.15	0.0	-43	
8:20	29.59	320	320	14.4	17.19	6.71	0.283	1.11	0.0	-48	Stable

Sample ID:	WAP-8I-111225	**Date:**	11/12/2025	**Time:**	8:20	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	R. Elwer
CONTRACTOR	N/A	**SAMPLING DATE**	11/12/25

Sampling Data:		Well Depth as Built:	107.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-8D	Well Depth Measured:	-- ft	Initial Depth To Water:	30.96 ft	Field Parameter Device:	Horiba U-52
Start time:	8:35	Depth To Top Of Screen:	97.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	10:50	Depth To Bottom Of Scree	107.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
8:40	30.90	360	360	1.8	17.89	7.04	0.267	2.28	21.1	83	
8:45	31.32	360	360	3.6	17.82	6.86	0.252	0.99	394	-72	
8:50	31.95	360	360	5.4	17.87	6.86	0.251	0.94	212	-95	
8:55	32.21	320	320	7.0	17.98	6.89	0.252	0.92	93.6	-102	
9:00	32.32	200	200	8.0	18.21	6.90	0.252	0.93	61.6	-106	
9:05	32.49	200	200	9.0	18.38	6.91	0.252	0.92	25.1	-110	
9:10	32.62	200	200	10.0	18.44	6.91	0.252	0.92	30.3	-112	
9:15	32.36	200	200	11.0	18.49	6.92	0.252	0.91	17.9	-114	
9:20	31.96	200	200	12.0	18.27	6.91	0.252	0.90	15.7	-115	
9:25	31.55	200	200	13.0	18.20	6.89	0.252	0.88	4.8	-116	
9:30	31.35	360	360	14.8	18.04	6.90	0.252	0.87	35.0	-118	
9:35	31.27	360	360	16.0	18.04	6.92	0.252	0.88	79.9	-117	
9:40	31.07	360	360	18.4	18.01	6.89	0.252	0.88	8.3	-117	
9:45	31.07	360	360	20.2	17.96	6.89	0.252	0.87	2.8	-119	
9:50	31.02	360	360	22.0	17.95	6.89	0.252	0.87	6.3	-120	Stable

Sample ID:	WAP-8D-111225	**Date:**	11/12/2025	**Time:**	9:50	**QAQC Samples:**	MS/MSD

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/13/25

Sampling Data:

Well ID:	WAP-9S	Well Depth as Built:	65.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	12:38	Well Depth Measured:	-- ft	Initial Depth To Water:	39.27 ft	Field Parameter Device:	Horiba U-52
Finish Time:	13:13	Depth To Top Of Screen:	55.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
		Depth To Bottom Of Scree	65.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
12:38	39.51	200	200	0	20.65	7.18	0.402	2.44	0.0	19	Installed pump
12:43	39.61	200	200	1.0	19.29	7.14	0.414	1.04	0.0	-36	
12:48	36.69	200	200	2.0	19.11	7.23	0.419	0.73	0.0	-57	
12:53	39.73	200	200	3.0	19.21	7.28	0.424	0.50	0.0	-73	
12:58	39.76	200	200	4.0	18.93	7.26	0.430	0.49	0.0	-77	
13:03	39.80	200	200	5.0	18.85	7.25	0.432	0.47	0.0	-80	
13:08	39.82	200	200	6.0	18.86	7.23	0.434	0.45	0.0	-82	

Sample ID:	WAP-9S-111325	**Date:**	11/13/2025	**Time:**	13:13	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/13/25

Sampling Data:		Well Depth as Built:	90.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-9I	Well Depth Measured:	-- ft	Initial Depth To Water:	39.34 ft	Field Parameter Device:	Horiba U-52
Start time:	9:07	Depth To Top Of Screen:	80.0 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	10:10	Depth To Bottom Of Scree	90.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
9:07	39.42	200	200	0	17.75	7.26	0.276	1.19	0.0	-113	Installed pump
9:12	39.43	200	200	1.0	17.81	7.27	0.275	0.86	0.0	-116	
9:17	39.39	200	200	2.0	17.84	7.27	0.274	0.70	0.0	-118	
9:22	39.37	200	200	3.0	17.87	7.28	0.274	0.63	0.0	-122	
9:27	39.36	200	200	4.0	17.91	7.30	0.274	0.66	0.0	-123	
9:32	39.35	200	200	5.0	17.98	7.30	0.274	0.64	0.0	-123	
9:37	40.29	200	200	6.0	18.03	7.32	0.274	0.68	0.0	-125	Water level drop
9:42	40.65	200	200	7.0	18.06	7.31	0.274	0.66	0.0	-126	
9:47	40.94	200	200	8.0	18.05	7.30	0.274	0.68	0.0	-127	
9:52	41.13	200	200	9.0	18.08	7.30	0.274	0.69	0.0	-127	
9:57	41.30	200	200	10.0	18.13	7.30	0.274	0.64	0.0	-126	
10:02	41.37	200	200	11.0	18.20	7.31	0.274	0.64	0.0	-127	
10:07	41.43	200	200	12.0	18.23	7.31	0.274	0.63	0.0	-128	Stable

Sample ID:	WAP-9I-111325	**Date:**	11/13/2025	**Time:**	10:10	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	JK
CONTRACTOR	N/A	**SAMPLING DATE**	11/13/25

Sampling Data:		Well Depth as Built:	126.5 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-9D	Well Depth Measured:	-- ft	Initial Depth To Water:	42.55 ft	Field Parameter Device:	Horiba U-52
Start time:	10:56	Depth To Top Of Screen:	116.5 ft	Depth Of Pump Intake:	-- ft	Tubing Present In Well:	[X] Yes [ ] No
Finish Time:	12:00	Depth To Bottom Of Scree	126.5 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (mL/min)	Purge Rate (mL/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
10:56	43.48	180	180	0.9	19.53	7.00	0.289	4.00	0.0	-39	Installed pump
11:01	44.04	180	180	1.8	19.30	6.93	0.284	3.34	0.0	-95	
11:06	44.41	180	180	2.7	19.32	7.07	0.282	1.84	0.0	-117	
11:11	44.68	180	180	3.6	19.67	7.18	0.281	1.46	0.0	-125	
11:16	--	--	--	--	--	--	--	--	--	--	Purge rate dropped unexpectedly
11:21	44.98	140	140	5.0	20.28	7.26	0.282	1.51	0.0	-132	
11:26	45.03	140	140	5.7	19.9	7.26	0.284	1.67	0.0	-133	
11:31	44.08	140	140	6.4	19.25	7.24	0.282	1.59	0.0	-138	Water level rising rapidly
11:36	43.55	140	140	7.1	19.12	7.24	0.281	1.54	0.0	-143	
11:41	43.19	140	140	7.8	19.39	7.26	0.280	1.56	0.0	-144	
11:46	42.94	140	140	8.5	19.66	7.27	0.281	1.70	0.0	-144	
11:51	42.85	140	140	9.2	19.80	7.25	0.282	1.68	0.0	-143	
11:56	42.74	140	140	9.9	19.74	7.27	0.280	1.77	0.0	-143	Stable

Sample ID:	WAP-9D-111325	**Date:**	11/13/2025	**Time:**	12:00	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

GROUNDWATER LEVEL MONITORING REPORT

Form FMG 5.1-01
Rev (06-09-09)

Project: F.B. Culley Generating Station	**Client:** Southern Indiana Gas & Electric Company (SIGECO)	**File Number:** 0129420-040
Location: Newburgh, IN.	**Weather:** Cloudy, 60 deg F	**Project Manager:** Neal Kochis
Reference: Top of Casing	**Units:** Decimal Feet	**Field Representative:** B. Todd
Method: Dip	**Comments:** --	

Monitoring Well ID	Area of Interest	Date	Time	Well Dry? (Y/N)	Depth to Water	Depth to Well Bottom (Measured)	Depth to Well Bottom (Table)	Top of Riser Elevation	Remarks	Measured By
CCR-AP-1R	Background	5/21/2026	9:48	N	54.89	--	65.0	441.64	--	BT
CCR-AP-9	Background	5/21/2026	9:55	Y	Dry	--	70.0	448.53	--	BT
CCR-AP-7	Background	5/21/2026	9:41	N	11.09	--	30.0	432.41	--	BT
WAP-1	Background	5/21/2026	9:15	N	14.95	--	36.0	403.42	--	BT
WAP-2RR	WAP Shallow	5/21/2026	7:49	N	79.16	--	56.0	390.85	--	BT
WAP-3S	WAP Shallow	5/21/2026	12:00	N	36.16	--	70.0	387.51	--	BT
WAP-3D	WAP Deep	5/21/2026	7:39	N	36.11	--	82.5	387.56	Ants in well vault	BT
WAP-4S	WAP Shallow	5/21/2026	6:59	N	30.41	--	45.0	384.19	--	BT
WAP-4I	WAP Intermediate	5/21/2026	6:57	N	30.49	--	75.0	384.11	--	BT
WAP-4D	WAP Deep	5/21/2026	6:55	N	32.92	--	116.0	384.13	--	BT
WAP-5S	WAP Shallow	5/21/2026	6:44	N	29.17	--	40.0	384.26	--	BT
WAP-5I	WAP Intermediate	5/21/2026	6:41	N	29.07	--	75.0	384.26	--	BT
WAP-5D	WAP Deep	5/21/2026	6:38	N	29.63	--	113.0	384.28	--	BT
WAP-6S	WAP Shallow	5/21/2026	8:17	N	33.52	49.8	50.0	385.44	--	BT
WAP-6I	WAP Intermediate	5/21/2026	8:21	N	34.09	--	80.0	385.43	--	BT
WAP-6D	WAP Deep	5/21/2026	8:20	N	38.44	--	115.5	385.37	--	BT
WAP-7S	WAP Shallow	5/21/2026	7:43	N	37.12	--	60.0	388.52	--	BT
WAP-7D	WAP Deep	5/21/2026	7:44	N	36.81	--	78.6	388.81	--	BT
WAP-8S	WAP Shallow	5/21/2026	7:18	N	31.57	--	50.0	384.16	Water in well vault	BT

GROUNDWATER LEVEL MONITORING REPORT

Form FMG 5.1-01
Rev (06-09-09)

Project: F.B. Culley Generating Station	**Client:** Southern Indiana Gas & Electric Company (SIGECO)	**File Number:** 0129420-040
Location: Newburgh, IN.	**Weather:** Cloudy, 60 deg F	**Project Manager:** Neal Kochis
Reference: Top of Casing	**Units:** Decimal Feet	**Field Representative: B. Todd**
Method: Dip	**Comments:** --	

Monitoring Well ID	Area of Interest	Date	Time	Well Dry? (Y/N)	Depth to Water	Depth to Well Bottom (Measured)	Depth to Well Bottom (Table)	Top of Riser Elevation	Remarks	Measured By
WAP-8I	WAP Intermediate	5/21/2026	7:15	N	32.71	--	80.0	384.29	Water in well vault	BT
WAP-8D	WAP Deep	5/21/2026	7:14	N	33.73	--	107.0	384.12	--	BT
WAP-9S	WAP Shallow	5/21/2026	8:13	N	46.28	--	65.0	392.56	--	BT
WAP-9I	WAP Intermediate	5/21/2026	8:11	N	42.44	--	90.0	392.68	--	BT
WAP-9D	WAP Deep	5/21/2026	8:09	N	40.89	--	126.5	392.48	--	BT
PZ-2	WAP Shallow	5/21/2026	-	--	-	--	12.0	388.40	Unable to locate	BT
PZ-3	WAP Shallow	5/21/2026	9:27	N	10.19	17.44	18.0	394.20	Silty bottom	BT
PZ-4	WAP Shallow	5/21/2026	-	--	-	--	20.0	401.60	Unable to locate	BT
PZ-5	WAP Shallow	5/21/2026	8:59	N	3.56	24.5	28.0	388.00	--	BT
PZ-6	WAP Shallow	5/21/2026	9:17	N	12.41	27.59	28.0	403.90	--	BT
PZ-7	WAP Shallow	5/21/2026	9:10	N	11.96	24.53	28.0	400.80	--	BT
CCR-AP-2	EAP Shallow	5/21/2026	10:47	N	35.94	--	46.0	394.02	--	BT
CCR-AP-3	EAP Shallow	5/21/2026	10:29	--	Dry	--	45.0	394.55	Temporarily Inaccessible	BT
CCR-AP-4	EAP Shallow	5/21/2026	10:14	N	23.97	--	35.5	394.98	--	BT
CCR-AP-5	EAP Shallow	5/21/2026	10:55	N	28.45	--	44.0	394.38	--	BT
CCR-AP-5I	EAP Deep	5/21/2026	10:52	N	29.7	--	85.3	394.48	--	BT
CCR-AP-6	EAP Shallow	5/21/2026	10:24	Y	Dry	--	45.5	396.75	--	BT
CCR-AP-6I	EAP Deep	5/21/2026	10:26	N	50.35	--	74.7	396.88	--	BT
CCR-AP-8	EAP Shallow	5/21/2026	11:15	N	36.97	--	45.5	393.68	--	BT

GROUNDWATER LEVEL MONITORING REPORT

Form FMG 5.1-01
Rev (06-09-09)

Project: F.B. Culley Generating Station	**Client:** Southern Indiana Gas & Electric Company (SIGECO)	**File Number:** 0129420-040
Location: Newburgh, IN.	**Weather:** Cloudy, 60 deg F	**Project Manager:** Neal Kochis
Reference: Top of Casing	**Units:** Decimal Feet	**Field Representative: B. Todd**
Method: Dip	**Comments:** --	

Monitoring Well ID	Area of Interest	Date	Time	Well Dry? (Y/N)	Depth to Water	Depth to Well Bottom (Measured)	Depth to Well Bottom (Table)	Top of Riser Elevation	Remarks	Measured By
CCR-AP-8I	EAP Deep	5/21/2026	11:17	N	44.09	--	68.7	393.46	--	BT
CCR-AP-11	EAP Shallow	5/21/2026	11:39	N	17.97	--	54.4	385.10	--	BT
CCR-AP-12I	EAP Deep	5/21/2026	10:40	N	43.73	--	65.5	394.10	--	BT

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	T. Rieman
CONTRACTOR	None	**SAMPLING DATE**	05/28/26

Sampling Data:

Well ID:	WAP-1	Well Depth as Built:	36.0 ft	Well Diameter:	2.0 in	Sampling Device:	Hydrasleeve
Start time:	15:30	Well Depth Measured:	ft	Initial Depth To Water:	ft	Field Parameter Device:	Horiba U-52
Finish Time:	15:35	Depth To Top Of Screen:	26.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☐ Yes ☒ No
		Depth To Bottom Of Scree	36.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
15:35					20.43	7.24	0.672	0.61	54	-55	Appears to be iron oxides in the sleeve.

Sample ID:	WAP-1	**Date:**	5/28/2026	**Time:**	15:35	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	J. Eichman
CONTRACTOR	None	**SAMPLING DATE**	05/28/26

Sampling Data:

Well ID:	WAP-2RR	Well Depth as Built:	56.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	9:10	Well Depth Measured:	ft	Initial Depth To Water:	36.2 ft	Field Parameter Device:	Horiba U-52
Finish Time:	10:00	Depth To Top Of Screen:	46.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	56.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
9:10	36.2		200		18.35	7.11	1.31	6.75	0	170	
9:15	36.2		200		18.28	6.79	1.52	3.35	0	168	
9:20	36.2		200		18.2	6.89	1.52	2.7	0	162	
9:25	36.2		200		18.21	6.67	1.5	2.4	0	159	
9:30	36.2		200		18.21	6.89	1.54	2.37	0	157	
9:35	36.2		200	5 L	18.22	6.69	1.48	2.35	0	153	

Sample ID:	WAP-2RR	**Date:**	5/28/2026	**Time:**	9:40	**QAQC Samples:**	DUP-1-052826

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	J. Eichman
CONTRACTOR	None	**SAMPLING DATE**	05/28/26

Sampling Data:

Well ID:	WAP-3S	Well Depth as Built:	70.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	14:15	Well Depth Measured:	ft	Initial Depth To Water:	30.36 ft	Field Parameter Device:	Horiba U-52
Finish Time:	14:50	Depth To Top Of Screen:	60.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	70.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
14:15	30.76		250		19.28	7.39	0.762	2.19	4.7	-51	
14:20	30.76		250		19.3	7.38	0.756	1.69	1.3	-68	
14:25	30.76		250		19.28	7.38	0.756	1.57	0.5	-77	
14:30	30.76		250		19.32	7.43	0.756	1.48	0	-80	
14:35	30.76		250	5 L	19.25	7.44	0.764	1.49	0	-79	

Sample ID:	WAP-3S	**Date:**	5/28/2026	**Time:**	14:40	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	J. Eichman
CONTRACTOR	None	**SAMPLING DATE**	05/28/26

Sampling Data:		Well Depth as Built:	82.5 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-3D	Well Depth Measured:	ft	Initial Depth To Water:	30.79 ft	Field Parameter Device:	Horiba U-52
Start time:	13:25	Depth To Top Of Screen:	72.5 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:	14:15	Depth To Bottom Of Scree	82.5 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
13:25	30.79		250		22.85	7.42	0.776	5.19	0	31	
13:30	30.79		250		21.4	7.54	0.614	2	0.7	24	
13:35	30.79		250		20.84	7.49	0.65	1.53	0	27	
13:40	30.79		250		20.61	7.55	0.653	1.38	0	28	
13:45	30.79		250		20.67	7.49	0.655	1.32	0	26	
13:50	30.79		250	6.25 L	20	7.5	0.655	1.3	0	29	

Sample ID:	WAP-3D		**Date:**	5/28/2026	**Time:**	13:55	**QAQC Samples:**	None	

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	T. Rieman
CONTRACTOR	None	**SAMPLING DATE**	05/28/26

Sampling Data:		Well Depth as Built:	45.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-4S	Well Depth Measured:	ft	Initial Depth To Water:	ft	Field Parameter Device:	Horbia U-52
Start time:	12:30	Depth To Top Of Screen:	35.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:	14:25	Depth To Bottom Of Scree	45.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
12:30	22.51		300	0.3	21.04	7.49	1.03	2.27	403	32	
12:40	22.51		300	0.6	21.04	7.46	0.856	1.06	26.8	-56	
12:50	22.51		300	0.9	19.62	7.43	0.84	0.8	0	-58	
12:55	22.90		300	1.2	19.69	7.46	0.893	0.61	57.6	-57	
13:05	22.90		300	1.5	20.26	7.55	0.887	0.58	231	-64	Cleaned sediment out of flow cell
13:15	22.85		300	1.8	20.31	7.56	0.892	0.58	148	-60	
13:25	22.85		300	2.1	20.98	7.46	0.882	0.73	129	-48	
13:35	22.85		300	2.4	19.72	7.42	0.874	1.53	234	-69	
13:40	22.85		300	2.7	19.13	7.51	0.868	0.48	413	-69	
13:50	22.85		300	3	20.95	7.59	0.881	0.58	242	-68	
14:00	22.85		300	3.3	21.33	7.6	0.881	0.49	311	-60	
14:10	22.58		250	3.6	21.59	7.56	0.85	1.42	18	-53	
14:15	22.58		250	4	21.21	7.53	0.88	0.78	11.8	-67	
14:20	22.58		250	4.25	21.39	7.55	0.882	0.7	9	-70	
14:25											

Sample ID:	WAP-4S	**Date:**	5/28/2026	**Time:**	14:25	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	T. Rieman
CONTRACTOR	None	**SAMPLING DATE**	05/28/26

Sampling Data:

Well ID:	WAP-4I	Well Depth as Built:	75.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	10:40	Well Depth Measured:	ft	Initial Depth To Water:	ft	Field Parameter Device:	Horiba U-52
Finish Time:	11:30	Depth To Top Of Screen:	65.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	75.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
10:40	21.98		300		18.81	7.83	0.32	7.78	0	61	
10:50	21.98		300	0	15.61	7.80	0.31	1.04	0	-45	
10:55	21.98		300	0.3	15.51	7.73	0.31	0.90	0	-50	
11:00	21.98		300	0.6	15.41	7.78	0.31	0.81	0	-57	
11:05	21.98		300	0.9	15.39	7.71	0.31	0.75	0	-46	
11:10	21.98		300	1.2	15.30	7.76	0.31	1.91	0	-50	
11:15	21.98		300	1.5	15.24	7.78	0.31	1.06	0	-51	
11:20	21.98		300	1.8	15.15	7.81	0.31	0.74	0	-54	
11:25	21.98		300	2.1	15.09	7.80	0.31	0.80	0	-50	
11:30											

Sample ID:	WAP-4I	**Date:**	5/28/2026	**Time:**	11:30	**QAQC Samples:**	MS/MSD

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	T. Rieman
CONTRACTOR	None	**SAMPLING DATE**	05/28/26

Sampling Data:

Well ID:	WAP-4D	Well Depth as Built:	116.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	9:15	Well Depth Measured:	ft	Initial Depth To Water:	ft	Field Parameter Device:	Horiba U-52
Finish Time:	9:50	Depth To Top Of Screen:	106.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	116.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
9:15	24.28		175	0	20.35	7.79	0.359	4.74	0	-94	
9:25	24.65		175	0.15	19.2	7.94	0.359	1.22	0	-143	
9:30	24.85		175	0.3	19.17	7.97	0.362	1.62	0	-148	
9:35	24.85		150	0.45	19.1	7.96	0.363	1.11	0	-149	
9:40	24.85		150	0.55	19.19	7.95	0.362	1.01	0	-151	
9:45	24.80		150	0.7	19.31	7.96	0.362	0.97	0	-151	
9:50											

Sample ID:	WAP-4D		**Date:**	5/28/2026	**Time:**	9:50	**QAQC Samples:**	None	

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	T. Rieman
CONTRACTOR	None	**SAMPLING DATE**	05/27/26

Sampling Data:		Well Depth as Built:	40.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-5S	Well Depth Measured:	ft	Initial Depth To Water:	ft	Field Parameter Device:	Horiba U-52
Start time:	13:50	Depth To Top Of Screen:	30.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:	14:55	Depth To Bottom Of Scree	40.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
13:50			250	0	20.89	6.65	1.41	1.22	0	92	
14:00			250	0.5	20.86	6.68	1.32	6.19	0	105	
14:10			250	1	21.02	6.47	1.321	3.14	0	89	
14:15			300	1.25	20.79	6.76	1.324	0.99	0	77	
14:20			300	1.5	20.79	6.76	1.311	0.79	0	70	
14:25			300	2	20.91	6.71	1.323	0.72	0	66	
14:30			300	2.5	21.09	6.75	1.305	0.74	0	63	
14:35			300	3	21.14	6.72	1.31	0.68	0	59	
14:40			300	3.5	21.52	6.79	1.297	1.36	0	58	Water quality meter timed out and shut down
14:45			300	4	21.57	6.79	1.297	0.86	0	59	
14:50			300	4.5	21.64	6.74	1.296	0.8	0	58	
14:55											

Sample ID:	WAP-5S	**Date:**	5/27/2026	**Time:**	14:55	**QAQC Samples:**	None		

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	T. Rieman
CONTRACTOR	CTI	**SAMPLING DATE**	05/27/26

Sampling Data:

Well ID:	WAP-5I	Well Depth as Built:	75.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	16:05	Well Depth Measured:	ft	Initial Depth To Water:	ft	Field Parameter Device:	Horiba U-52
Finish Time:	17:05	Depth To Top Of Screen:	65.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	75.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
16:05	20.49		100	0	24.32	7.54	0.266	5.14	0	57	
16.15	20.54		215	0.2	17.09	7.62	0.298	1.14	0	-1	
16:25	20.53		215	0.4	18.25	7.63	0.299	0.76	0	-30	
16:30	20.5		215	0.55	19.61	7.65	0.299	0.69	0	-28	
16:35	20.5		215	0.75	19.89	7.69	0.298	0.87	0	-34	
16:40	20.49		215	1	20.02	7.71	0.297	0.67	0	-35	
16:45	20.49		215	1.2	20.11	7.67	0.297	0.61	0	-38	
16:50	20.49		215	1.4	20.19	7.69	0.297	0.6	0	-40	
16:55	20.49		215	1.65	20.19	7.69	0.296	0.6	0	-43	
17:00	20.49		215	1.85	20.2	7.75	0.295	0.59	0	-44	
17:05											

Sample ID:	WAP-5I		**Date:**	5/27/2026	**Time:**	17:05	**QAQC Samples:**	None	

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	T. Rieman
CONTRACTOR	None	**SAMPLING DATE**	05/27/26

Sampling Data:

Well ID:	WAP-5D	Well Depth as Built:	113.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	17:30	Well Depth Measured:	ft	Initial Depth To Water:	ft	Field Parameter Device:	Horiba U-52
Finish Time:	18:25	Depth To Top Of Screen:	103.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	113.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
17:30	21.75		200	0.2	26.66	7.59	0.313	4.58	0	-70	
17:45	21.75		200	0.4	26.94	7.62	0.306	0.88	0	-99	
17:55	21.75		200	0.6	26.88	7.64	0.305	0.63	0	-104	
18:00	21.75		200	0.8	26.83	7.62	0.304	0.45	0	-106	
18:05	21.80		250	1	26.89	7.63	0.316	0.74	0	-101	
18:10	21.80		250	1.2	26.89	7.63	0.315	0.56	0	-106	
18:15	21.80		250	1.4	24.64	7.65	0.317	0.54	0	-108	
18:20	21.80		250	1.5	24.48	7.65	0.318	0.52	0	-109	
18:25											

Sample ID:	WAP-5D		**Date:**	5/27/2026	**Time:**	18:25	**QAQC Samples:**	None	

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	J. Eichman
CONTRACTOR	None	**SAMPLING DATE**	05/27/26

Sampling Data:

		Well Depth as Built:	80.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Well ID:	WAP-6I	Well Depth Measured:	ft	Initial Depth To Water:	27.93 ft	Field Parameter Device:	Horiba U-52
Start time:	13:10	Depth To Top Of Screen:	70.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
Finish Time:	14:00	Depth To Bottom Of Scree	80.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
13:10	28.03		200		20.49	7.32	0.37	8.64	0	28	
13:15	28.05		200		19.81	7.45	0.36	5.73	0	-18	
13:20	28.12		200		19.31	7.46	0.34	4.23	0	-50	
13:25	28.13		200		19.77	7.37	0.339	3.34	0	-67	
13:30	28.15		200		18.94	7.39	0.333	2.77	0	-84	
13:35	28.17		200		18.87	7.47	0.331	2.57	0	-87	
13:40	28.15		200		18.78	7.42	0.33	2.49	0	-85	
13:45	28.13		200	7 L	18.85	7.41	0.329	2.51	0	-89	

Sample ID:	WAP-6I			**Date:**	5/27/2026	**Time:**	13:50	**QAQC Samples:**	None		

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	J. Eichman
CONTRACTOR	None	**SAMPLING DATE**	05/28/26

Sampling Data:

Well ID:	WAP-7S	Well Depth as Built:	60.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	11:30	Well Depth Measured:	ft	Initial Depth To Water:	33.02 ft	Field Parameter Device:	Horiba U-52
Finish Time:	12:20	Depth To Top Of Screen:	50.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	60.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
11:30	33.02		250		20.02	7.44	0.93	9.34	0.00	80	
11:35	33.02		250		18.89	8.06	0.79	3.08	0.00	-7	
11:40	33.02		250		18.77	7.93	0.77	2.35	0.00	-40	
11:45	33.02		250		18.71	7.96	0.77	2.00	0.00	-54	
11:50	33.02		250		18.72	8.02	0.78	1.78	1.30	-66	
11:55	33.02		250		18.69	8.06	0.78	1.60	0.40	-70	
12:00	33.02		250		18.70	8.01	0.78	1.62	0.00	-79	
12:05	33.02		250	8.75 L	18.69	8.08	0.78	1.63	0.00	-80	

Sample ID:	WAP-7S	**Date:**	5/28/2026	**Time:**	12:10	**QAQC Samples:**	MS/MSD

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	J. Eichman
CONTRACTOR	None	**SAMPLING DATE**	05/28/26

Sampling Data:

Well ID:	WAP-7D	Well Depth as Built:	78.6 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	12:35	Well Depth Measured:	ft	Initial Depth To Water:	32.71 ft	Field Parameter Device:	Horiba U-52
Finish Time:	13:10	Depth To Top Of Screen:	68.5 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	78.6 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
12:35	32.71		200		19.70	7.17	1.95	4.14	0.70	-6	
12:40	32.71		200		19.37	7.04	1.99	2.51	0.00	-32	
12:45	32.71		200		19.39	7.00	2.00	1.83	0.00	-39	
12:50	32.71		200		19.23	6.98	2.00	1.78	0.00	-39	
12:55	32.71		200	4 L	19.19	7.03	2.00	1.74	0.00	-42	

Sample ID:	WAP-7D	**Date:**	5/28/2026	**Time:**	13:00	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	J. Eichman
CONTRACTOR	None	**SAMPLING DATE**	05/27/26

Sampling Data:

Well ID:	WAP-9S	Well Depth as Built:	65.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	15:35	Well Depth Measured:	ft	Initial Depth To Water:	33.29 ft	Field Parameter Device:	Horiba U-52
Finish Time:	16:20	Depth To Top Of Screen:	55.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	65.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
15:35	33.23		250		20.8	7.48	0.486	4.35	31.3	88	
15:40	33.25		250		19.68	7.34	0.482	2.67	0	38	
15:45	33.25		250		19.52	7.35	0.494	2.28	0	12	
15:50	33.25		250		19.54	7.44	0.498	2	0	10	
15:55	33.25		250		19.46	7.47	0.499	1.91	0	6	
16:00	33.25		250		19.56	7.47	0.505	1.89	0.9	-5	
16:05	33.25		250		19.34	7.42	0.501	1.83	0.3	-7	
16:10	33.23		250	8.75 L	19.31	7.45	0.502	1.85	0	-12	

Sample ID:	WAP-9S	**Date:**	5/27/2026	**Time:**	16:15	**QAQC Samples:**	None

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

LOW FLOW SAMPLING FORM

PROJECT	F.B. Culley Generating Station - West Ash Pond	**H&A FILE NO.**	0129420
LOCATION	Newburgh, Indiana	**PROJECT MGR.**	Neal Kochis
CLIENT	Southern Indiana Gas and Electric Company	**FIELD REP.**	J. Eichman
CONTRACTOR	None	**SAMPLING DATE**	05/27/26

Sampling Data:

Well ID:	WAP-9I	Well Depth as Built:	90.0 ft	Well Diameter:	2.0 in	Sampling Device:	Bladder Pump
Start time:	16:45	Well Depth Measured:	ft	Initial Depth To Water:	35.21 ft	Field Parameter Device:	Horiba U-52
Finish Time:	17:30	Depth To Top Of Screen:	80.0 ft	Depth Of Pump Intake:	ft	Tubing Present In Well:	☒ Yes ☐ No
		Depth To Bottom Of Scree	90.0 ft	Measuring Point:	Top of Casing (TOC)	Tubing Type:	Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
16:45	35.21		250		20.51	7.16	0.36	7.5	1.8	2	
16:50	35.21		250		18.17	7.39	0.334	7.29	0	-50	
16:55	35.21		250		18.03	7.13	0.334	7.36	0	-66	
17:00	35.21		250		17.99	7.16	0.334	4.72	0	-81	
17:05	35.21		250		17.94	7.15	0.334	4.18	0	-83	
17:10	35.21		250		17.82	7.15	0.334	4.28	0	-80	
17:15	35.21		250	7.51 L	17.85	7.12	0.333	4.26	0	-88	

Sample ID:	WAP-9I		**Date:**	5/27/2026	**Time:**	17:20	**QAQC Samples:**	None	

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

Groundwater Monitoring Field Data Form

Site: F.B. Culley Generating Station
3711 Darlington Rd., Newburgh, IN47630

File No.: 0129420-040

CCR-AP-7

Date:	6/8/2026	Sampler:	Katie McGushin		
Casing Material:	PVC	Depth to Water (ft bmp):	11.99	Volume Units:	gal
Purge Method:	Low Flow	Casing Diameter (in):	2	Well Depth (ft bmp)	30.0
Pump Intake (ft bmp)	25.0	Water Column (ft)	18.01	Water Quality Meter:	Horiba
Purge Start Time:	14:20	Screen Interval (ft bmp):			
Purge End Time:	15:20				
Purge Time (min):	60	Comments:			

Sampling Summary

Sample Date:	6/8/26	COC:	
Sample Time:	14:55	Analysis:	See COC
Sample ID:	CCR-AP-7-060826	Bottles:	
Duplicate Sample ID:		Odor:	None
Duplicate Sample Time:	14:55	Remarks:	

Samplers Signature:
Katie McGushin

Field Stabilization Parameters

Date	Time	Flow Rate	Cuml Volume	DTW	Temp	pH	Spec. Cond	ORP	DO	Turbidity	Remarks
		(mL/min)	(gal)	(ft bmp)	(C)	(SU)	(uS/cm)	(mV)	(mg/l)		
06/08/2026	14:25:00	300	0.5	14.00	17.22	6.87	902	-111	2.95	1.2	
06/08/2026	14:30:00	150	0.75	14.60	17.87	6.89	762	-87	1.65	0.0	
06/08/2026	14:35:00	150	0.90	14.35	19.45	6.85	736	-81	1.67	0.0	
06/08/2026	14:40:00	150	1	14.00	20.20	6.88	731	-79	1.66	0.0	
06/08/2026	14:45:00	150	1.1	13.97	21.30	6.88	726	-78	1.71	0.0	
06/08/2026	14:50:00	150	1.3	13.70	22.01	6.88	726	-79	1.70	0.0	Stable.

Groundwater Monitoring Field Data Form

Site: F.B. Culley Generating Station
3711 Darlington Rd., Newburgh, IN47630

File No.: 0129420-040

WAP-6D

Date:	6/8/2026	Sampler:	Brian Todd		
Casing Material:	PVC	Depth to Water (ft bmp):	37.90	Volume Units:	gal
Purge Method:	Low Flow	Casing Diameter (in):	2	Well Depth (ft bmp)	115.5
Pump Intake (ft bmp)	110.5	Water Column (ft)	77.6	Water Quality Meter:	Horiba
Purge Start Time:	15:00	Screen Interval (ft bmp):			
Purge End Time:	15:43				
Purge Time (min):	43	Comments:			

Sampling Summary

Sample Date:	6/8/2026	COC:	
Sample Time:	15:45	Analysis:	See COC
Sample ID:	WAP-6D-060826	Bottles:	
Duplicate Sample ID:		Odor:	None
Duplicate Sample Time:		Remarks:	
Samplers Signature: Brian Todd			

Field Stabilization Parameters

Date	Time	Flow Rate	Cuml Volume	DTW	Temp	pH	Spec. Cond	ORP	DO	Turbidity	Remarks
		(mL/min)	(gal)	(ft bmp)	(C)	(SU)	(uS/cm)	(mV)	(mg/l)		
06/08/2026	15:05:45	125	0.1	37.90	20.70	6.92	394	-69	3.84	0.0	
06/08/2026	15:10:00	140	0.3	38.10	20.24	6.96	380	-86	2.18	0.0	
06/08/2026	15:15:22	140	0.5	38.17	19.68	6.98	371	-105	1.70	0.0	
06/08/2026	15:20:48	140	0.7	38.28	19.52	6.99	368	-119	1.34	0.0	
06/08/2026	15:25:00	140	0.9	38.30	19.51	6.98	367	-124	1.20	0.0	
06/08/2026	15:30:15	140	1.0	38.30	19.61	6.98	367	-128	1.12	0.0	
06/08/2026	15:35:06	140	1.20	38.30	19.73	6.97	368	-130	1.07	0.0	
06/08/2026	15:40:00	140	1.3	38.30	19.67	7.01	367	-131	1.02	0.0	Stable.

Groundwater Monitoring Field Data Form

Site: F.B. Culley Generating Station
3711 Darlington Rd., Newburgh, IN47630

File No.: 0129420-040

WAP-6S

Date:	6/8/2026	Sampler:	Brian Todd		
Casing Material:	PVC	Depth to Water (ft bmp):	33.22	Volume Units:	gal
Purge Method:	Low Flow	Casing Diameter (in):	2	Well Depth (ft bmp)	50.0
Pump Intake (ft bmp)	45.0	Water Column (ft)	16.78	Water Quality Meter:	Horiba
Purge Start Time:	13:16	Screen Interval (ft bmp):	40.0-50.0		
Purge End Time:	14:37				
Purge Time (min):	81	Comments:	Horiba was leaking		

Sampling Summary

Sample Date:	6/8/2026	COC:	
Sample Time:	14:40	Analysis:	See COC
Sample ID:	WAP-6S-060826	Bottles:	
Duplicate Sample ID:	DUP-2-060826	Odor:	None
Duplicate Sample Time:	14:40	Remarks:	Field Duplicate
Samplers Signature: Brian Todd			

Field Stabilization Parameters

Date	Time	Flow Rate	Cuml Volume	DTW	Temp	pH	Spec. Cond	ORP	DO	Turbidity	Remarks
		(mL/min)	(gal)	(ft bmp)	(C)	(SU)	(uS/cm)	(mV)	(mg/l)		
06/08/2026	14:10:00	125	0.1	33.12	21.43	6.44	884	-21	1.18	9.8	
06/08/2026	14:15:34	125	0.3	33.12	21.29	6.44	876	-22	1.17	0.0	
06/08/2026	14:20:00	125	0.4	33.12	21.30	6.45	865	-30	0.96	0.0	
06/08/2026	14:25:00	125	0.5	33.12	21.42	6.48	851	-33	0.91	0.0	
06/08/2026	14:30:03	125	0.7	33.12	21.50	6.49	841	-33	0.93	0.0	Stable.
06/08/2026	14:35:00	125	0.8	33.12	21.60	6.51	829	-36	0.92	0.0	Stable.

Groundwater Monitoring Field Data Form

Site: F.B. Culley Generating Station
3711 Darlington Rd., Newburgh, IN47630

File No.: 0129420-040

WAP-8D

Date:	6/9/2026	Sampler:	Brian Todd		
Casing Material:	PVC	Depth to Water (ft bmp):	33.55	Volume Units:	gal
Purge Method:	Low Flow	Casing Diameter (in):	2	Well Depth (ft bmp)	107.0
Pump Intake (ft bmp)	102.0	Water Column (ft)	73.45	Water Quality Meter:	Horiba
Purge Start Time:	11:46	Screen Interval (ft bmp):			
Purge End Time:	12:39				
Purge Time (min):	53	Comments:			

Sampling Summary

Sample Date:	6/9/2026	COC:	
Sample Time:	12:40	Analysis:	See COC
Sample ID:	WAP-8D-060926	Bottles:	
Duplicate Sample ID:		Odor:	None
Duplicate Sample Time:		Remarks:	
Samplers Signature: Brian Todd			

Field Stabilization Parameters

Date	Time	Flow Rate	Cuml Volume	DTW	Temp	pH	Spec. Cond	ORP	DO	Turbidity	Remarks
		(mL/min)	(gal)	(ft bmp)	(C)	(SU)	(uS/cm)	(mV)	(mg/l)		
06/09/2026	11:50:18	110	0.1	33.60	24.42	6.33	401	-62	0.74	12.4	
06/09/2026	11:55:18	120	0.2	33.60	23.57	6.28	409	-77	0.86	0.0	
06/09/2026	12:00:18	125	0.3	33.60	22.83	6.25	414	-92	0.75	0.0	
06/09/2026	12:05:18	125	0.4	33.72	22.47	6.19	417	-97	0.65	0.0	
06/09/2026	12:10:18	125	0.6	33.90	22.48	6.16	417	-98	0.59	0.0	
06/09/2026	12:15:23	125	0.7	34.10	22.39	6.15	416	-101	0.57	0.0	
06/09/2026	12:20:06	125	0.8	34.20	22.27	6.40	416	-117	0.57	0.0	
06/09/2026	12:25:12	125	1.0	34.30	22.25	6.67	417	-134	0.56	0.0	
06/09/2026	12:30:00	125	1.1	34.40	22.25	6.74	417	-140	0.55	0.0	
06/09/2026	12:35:06	125	1.2	34.45	22.09	6.74	418	-141	0.53	0.0	Stable.

Groundwater Monitoring Field Data Form

Site: F.B. Culley Generating Station
3711 Darlington Rd., Newburgh, IN47630

File No.: 0129420-040

WAP-8I

Date:	6/9/2026	Sampler:	Brian Todd		
Casing Material:	PVC	Depth to Water (ft bmp):	32.13	Volume Units:	gal
Purge Method:	Low Flow	Casing Diameter (in):	2	Well Depth (ft bmp)	80.0
Pump Intake (ft bmp)	75.0	Water Column (ft)	47.87	Water Quality Meter:	Horiba
Purge Start Time:	10:27	Screen Interval (ft bmp):			
Purge End Time:	11:02				
Purge Time (min):	35	Comments:			

Sampling Summary

Sample Date:	6/9/2026	COC:	
Sample Time:	11:05	Analysis:	See COC
Sample ID:	WAP-8I-060926	Bottles:	
Duplicate Sample ID:		Odor:	None
Duplicate Sample Time:		Remarks:	
Samplers Signature: Brian Todd			

Field Stabilization Parameters

Date	Time	Flow Rate	Cuml Volume	DTW	Temp	pH	Spec. Cond	ORP	DO	Turbidity	Remarks
		(mL/min)	(gal)	(ft bmp)	(C)	(SU)	(uS/cm)	(mV)	(mg/l)		
06/09/2026	10:35:39	150	0.2	31.70	21.20	6.27	453	-3	1.10	20.5	
06/09/2026	10:40:09	150	0.3	31.70	20.62	6.52	452	-45	0.73	0.0	
06/09/2026	10:45:46	150	0.4	31.70	20.49	6.64	456	-65	0.72	0.0	
06/09/2026	10:50:47	150	1.2	31.70	20.68	6.67	455	-73	0.71	0.0	
06/09/2026	10:55:54	150	1.3	31.70	20.72	6.65	455	-77	0.65	0.0	
06/09/2026	11:00:05	150	0.9	31.70	20.70	6.68	454	-80	0.65	0.0	Stable.

Groundwater Monitoring Field Data Form

Site: F.B. Culley Generating Station
3711 Darlington Rd., Newburgh, IN47630

File No.: 0129420-040

WAP-8S

Date:	6/9/2026	Sampler:	Brian Todd		
Casing Material:	PVC	Depth to Water (ft bmp):	31.17	Volume Units:	gal
Purge Method:	Low Flow	Casing Diameter (in):	2	Well Depth (ft bmp)	50.0
Pump Intake (ft bmp)	45.0	Water Column (ft)	18.83	Water Quality Meter:	Horiba
Purge Start Time:	09:07	Screen Interval (ft bmp):			
Purge End Time:	09:56				
Purge Time (min):	49	Comments:			

Sampling Summary

Sample Date:	6/9/2026	COC:	
Sample Time:	10:00	Analysis:	See COC
Sample ID:	WAP-8S-060926	Bottles:	
Duplicate Sample ID:		Odor:	None
Duplicate Sample Time:		Remarks:	
Samplers Signature: Brian Todd			

Field Stabilization Parameters

Date	Time	Flow Rate	Cuml Volume	DTW	Temp	pH	Spec. Cond	ORP	DO	Turbidity	Remarks
		(mL/min)	(gal)	(ft bmp)	(C)	(SU)	(uS/cm)	(mV)	(mg/l)		
06/09/2026	09:15:04	145	0.3	31.30	19.84	6.05	1040	-56	2.30	5.6	
06/09/2026	09:20:20	145	0.4	31.45	19.59	6.27	1060	-108	1.58	0.0	
06/09/2026	09:25:08	145	0.6	31.60	19.70	6.34	1060	-123	1.47	0.0	
06/09/2026	09:30:01	145	0.7	31.85	19.63	6.37	1050	-133	1.01	0.0	
06/09/2026	09:35:23	145	0.9	32.00	19.57	6.40	1040	-137	1.12	0.0	
06/09/2026	09:40:30	145	1.1	32.03	19.51	6.42	1040	-143	1.05	0.0	
06/09/2026	09:45:35	145	1.3	32.05	19.45	6.48	1040	-146	0.99	0.0	
06/09/2026	09:50:32	145	1.4	32.10	19.53	6.50	1030	-147	1.01	0.0	Stable.

HALEY ALDRICH

Groundwater Monitoring Field Data Form

Site: F.B. Culley Generating Station
3711 Darlington Rd., Newburgh, IN47630

File No.: 0129420-040

WAP-9D

Date:	6/9/2026	Sampler:	Katie McGushin		
Casing Material:	PVC	Depth to Water (ft bmp):	46.58	Volume Units:	gal
Purge Method:	Low Flow	Casing Diameter (in):	2	Well Depth (ft bmp)	126.5
Pump Intake (ft bmp)	121.5	Water Column (ft)	79.92	Water Quality Meter:	Horiba
Purge Start Time:	09:07	Screen Interval (ft bmp):			
Purge End Time:					
Purge Time (min):		Comments:			

Sampling Summary

Sample Date:	6/9/2026	COC:	
Sample Time:	10:40	Analysis:	See COC
Sample ID:	WAP-9D-060926	Bottles:	
Duplicate Sample ID:		Odor:	None
Duplicate Sample Time:		Remarks:	

Samplers Signature:
Katie McGushin

Field Stabilization Parameters

Date	Time	Flow Rate	Cuml Volume	DTW	Temp	pH	Spec. Cond	ORP	DO	Turbidity	Remarks
		(mL/min)	(gal)	(ft bmp)	(C)	(SU)	(uS/cm)	(mV)	(mg/l)		
06/09/2026	09:45:00	125	0.40	47.34	22.31	6.76	429	38	4.34	0.0	Paused between initial purging and fist set of parameters for lighning stand down.
06/09/2026	09:50:00	100	0.42	47.35	22.35	6.80	428	7	3.49	0.0	
06/09/2026	09:55:00	100	0.42	47.36	22.39	6.81	427	10	3.25	0.0	
06/09/2026	10:00:00	100	0.44	47.36	22.45	6.83	426	-6	3.01	0.0	
06/09/2026	10:05:00	100	0.44	47.35	22.50	6.85	424	-22	2.74	0.0	
06/09/2026	10:10:00	100	0.46	47.15	22.57	6.88	422	-39	2.61	0.0	
06/09/2026	10:15:00	125	0.48	46.70	22.64	6.90	415	-52	2.45	0.0	Note that well started recharging at a fast rate and water level is rising in well. Increased purge rate.
06/09/2026	10:20:49	125	0.50	46.65	22.68	6.93	410	-62	2.33	0.0	
06/09/2026	10:25:00	125	0.52	46.50	22.69	6.94	406	-66	2.28	0.0	
06/09/2026	10:30:00	125	0.55	46.55	22.71	6.95	400	-68	2.29	0.0	
06/09/2026	10:35:00	130	0.70	46.55	22.72	6.96	395	-73	2.26	0.0	Stable

APPENDIX C
Laboratory Analytical Reports

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13

ANALYTICAL REPORT

PREPARED FOR

Attn: Todd Plating
Haley & Aldrich, Inc.
400 Augusta Street
Suite 100
Greenville, South Carolina 29601

Generated 7/9/2025 12:33:29 PM

JOB DESCRIPTION

CCR Groundwater Monitoring FB Culley West
FB Culley West

JOB NUMBER

180-191166-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

myEOL

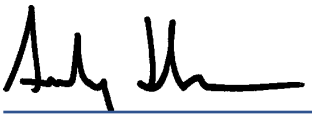
Job Notes

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.

PA Lab ID: 02-00416

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 Pittsburgh Project Manager.

Authorization



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Authorized for release by
Andy Johnson, Senior Project Manager
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(615)818-9567

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Job ID: 180-191166-1 Eurofins Pittsburgh

Job Narrative
180-191166-1

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 6/3/2025 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9°C and 4.2°C.

Gas Flow Proportional Counter
Method 9320_Ra228: Radium-228 prep batch 160-721982: The Ra-228 laboratory control sample (LCS) associated with the following samples recovered at 135% (LCS 160-721982/2-A). The limits in our LIMS system at (125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (68-154%). The LCS is within criteria and no further action is required.

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

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

Job ID: 180-191166-2 Eurofins Pittsburgh

Job Narrative
180-191166-2

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.
- 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 6/3/2025 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9°C and 4.2°C.

HPLC/IC
Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: WAP-2RR-053025 (180-191166-1), WAP-3S-053025 (180-191166-2), WAP-3D-053025 (180-191166-3), WAP-7S-053025 (180-191166-4), WAP-7D-053025 (180-191166-5) and WAP-8S-053025 (180-191166-6). 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.

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.

Definitions/Glossary

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00690	06-28-25
California	State	3122	05-30-26
Connecticut	State	PH-0820	09-30-26
Florida	NELAP	E871008	06-30-25
Georgia	State	PA 02-00416	04-30-26
Illinois	NELAP	200005	07-31-25
Kansas	NELAP	E-10350	01-31-26
Kentucky (UST)	State	162013	04-30-26
Kentucky (WW)	State	KY98043	12-31-25
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-25
Maine	State	PA00164	03-06-26
Minnesota	NELAP	042-999-482	12-31-25
New Hampshire	NELAP	2030	04-04-26
New Jersey	NELAP	PA005	06-30-25
New York	NELAP	11182	03-31-26
North Carolina (WW/SW)	State	434	12-31-25
North Dakota	State	R-227	04-30-24 *
Oregon	NELAP	PA-2151	02-06-26
Pennsylvania	NELAP	02-00416	04-30-26
Rhode Island	State	LAO00375	12-30-25
South Carolina	State	89014	04-30-25 *
Texas	NELAP	T104704528	03-31-26
US Fish & Wildlife	US Federal Programs	A21930	04-30-26
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462024-14	03-31-24 *
Virginia	NELAP	460189	09-14-25
West Virginia DEP	State	142	01-31-26
Wisconsin	State	998027800	08-31-25

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25 *
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Laboratory: Eurofins Cleveland (Continued)

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704517-22-19	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.
Job ID: 180-191166-1
Project/Site: CCR Groundwater Monitoring FB Culley West
SDG: FB Culley West

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-27
ANAB	Dept. of Defense ELAP	L2305	04-06-27
ANAB	Dept. of Energy	L2305.01	04-06-27
ANAB	ISO/IEC 17025	L2305	04-06-27
Arizona	State	AZ0813	12-08-25
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25 *
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-26
HI - RadChem Recognition	State	n/a	06-30-25 *
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-25
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-25
Louisiana (All)	NELAP	106151	06-30-26
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-26
MI - RadChem Recognition	State	9005	06-30-25 *
Missouri	State	780	06-30-25 *
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-26
New Mexico	State	MO00054	06-30-25 *
New York	NELAP	11616	03-31-26
North Carolina (DW)	State	29700	08-02-25
North Dakota	State	R-207	06-30-25 *
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Laboratory: Eurofins St. Louis (Continued)

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25 *
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-26
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-191166-1	WAP-2RR-053025	Water	05/30/25 11:50	06/03/25 09:05
180-191166-2	WAP-3S-053025	Water	05/30/25 15:05	06/03/25 09:05
180-191166-3	WAP-3D-053025	Water	05/30/25 15:55	06/03/25 09:05
180-191166-4	WAP-7S-053025	Water	05/30/25 13:45	06/03/25 09:05
180-191166-5	WAP-7D-053025	Water	05/30/25 12:55	06/03/25 09:05
180-191166-6	WAP-8S-053025	Water	05/30/25 18:00	06/03/25 09:05
180-191166-7	WAP-8I-053025	Water	05/30/25 17:15	06/03/25 09:05

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Client Sample ID: WAP-2RR-053025

Lab Sample ID: 180-191166-1

Date Collected: 05/30/25 11:50

Matrix: Water

Date Received: 06/03/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	497463	06/10/25 16:26	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	655156	06/10/25 06:35	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			656382	06/11/25 17:03	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	659210	06/10/25 14:00	BN	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			659511	06/11/25 15:06	S4FJ	EET CLE
	Instrument ID: I15									
Total/NA	Prep	7470A			20.0 mL	20.0 mL	658634	06/17/25 10:40	X3ZX	ELLE
Total/NA	Analysis	EPA 7470A		1			659095	06/17/25 18:52	IJ3I	ELLE
	Instrument ID: M10 – 31820									
Total/NA	Analysis	EPA 9040C		1			497222	06/05/25 10:56	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	497238	06/05/25 13:50	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1008.01 mL	1.0 g	721981	06/12/25 07:27	JTR	EET SL
Total/NA	Analysis	9315		1			726097	07/07/25 07:49	SWS	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			1008.01 mL	1.0 g	721982	06/12/25 07:33	JTR	EET SL
Total/NA	Analysis	9320		1			725542	07/02/25 10:03	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			725932	07/07/25 06:57	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-3S-053025

Lab Sample ID: 180-191166-2

Date Collected: 05/30/25 15:05

Matrix: Water

Date Received: 06/03/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	497463	06/10/25 16:55	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	655156	06/10/25 06:35	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			656382	06/11/25 17:34	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	659210	06/10/25 14:00	BN	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			659511	06/11/25 15:09	S4FJ	EET CLE
	Instrument ID: I15									
Total/NA	Prep	7470A			20 mL	20.0 mL	656666	06/16/25 23:55	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			659095	06/17/25 16:51	IJ3I	ELLE
	Instrument ID: M10 – 31820									
Total/NA	Analysis	EPA 9040C		1			497201	06/04/25 14:03	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	497238	06/05/25 13:50	LWM	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Client Sample ID: WAP-3S-053025

Date Collected: 05/30/25 15:05
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.70 mL	1.0 g	721981	06/12/25 07:27	JTR	EET SL
Total/NA	Analysis	9315		1			726097	07/07/25 07:49	SWS	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			1002.70 mL	1.0 g	721982	06/12/25 07:33	JTR	EET SL
Total/NA	Analysis	9320		1			725542	07/02/25 10:03	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			725932	07/07/25 06:57	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-3D-053025

Date Collected: 05/30/25 15:55
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	497463	06/10/25 17:24	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	497463	06/10/25 17:39	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	655156	06/10/25 06:35	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			656382	06/11/25 17:37	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	659210	06/10/25 14:00	BN	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			659511	06/11/25 15:12	S4FJ	EET CLE
	Instrument ID: I15									
Total/NA	Prep	7470A			20 mL	20.0 mL	656666	06/16/25 23:55	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			659095	06/17/25 16:13	IJ3I	ELLE
	Instrument ID: M10 – 31820									
Total/NA	Analysis	EPA 9040C		1			497222	06/05/25 11:10	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	497238	06/05/25 13:50	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1005.67 mL	1.0 g	721981	06/12/25 07:27	JTR	EET SL
Total/NA	Analysis	9315		1			726071	07/07/25 09:57	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1005.67 mL	1.0 g	721982	06/12/25 07:33	JTR	EET SL
Total/NA	Analysis	9320		1			725542	07/02/25 10:04	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			725932	07/07/25 06:57	FLC	EET SL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Client Sample ID: WAP-7S-053025

Date Collected: 05/30/25 13:45
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	497463	06/10/25 17:53	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	497463	06/10/25 18:37	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	655156	06/10/25 06:35	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			656382	06/11/25 17:59	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	659210	06/10/25 14:00	BN	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			659511	06/11/25 15:14	S4FJ	EET CLE
	Instrument ID: I15									
Total/NA	Prep	7470A			20 mL	20.0 mL	656666	06/16/25 23:55	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			659095	06/17/25 16:20	IJ3I	ELLE
	Instrument ID: M10 – 31820									
Total/NA	Analysis	EPA 9040C		1			497222	06/05/25 11:05	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	497238	06/05/25 13:50	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1001.78 mL	1.0 g	721981	06/12/25 07:27	JTR	EET SL
Total/NA	Analysis	9315		1			726071	07/07/25 09:57	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1001.78 mL	1.0 g	721982	06/12/25 07:33	JTR	EET SL
Total/NA	Analysis	9320		1			725542	07/02/25 10:04	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			725932	07/07/25 06:57	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-7D-053025

Date Collected: 05/30/25 12:55
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	497463	06/10/25 18:51	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		10	1 mL	1 mL	497463	06/10/25 19:06	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	655156	06/10/25 06:35	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			656382	06/11/25 18:36	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	659210	06/10/25 14:00	BN	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			659511	06/11/25 15:17	S4FJ	EET CLE
	Instrument ID: I15									
Total/NA	Prep	7470A			20.0 mL	20.0 mL	658634	06/17/25 10:40	X3ZX	ELLE
Total/NA	Analysis	EPA 7470A		1			659095	06/17/25 18:54	IJ3I	ELLE
	Instrument ID: M10 – 31820									

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Client Sample ID: WAP-7D-053025

Lab Sample ID: 180-191166-5

Date Collected: 05/30/25 12:55

Matrix: Water

Date Received: 06/03/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9040C		1			497222	06/05/25 11:00	BAB	EET PIT
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	497238	06/05/25 13:50	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1000.38 mL	1.0 g	721981	06/12/25 07:27	JTR	EET SL
Total/NA	Analysis	9315		1			726071	07/07/25 09:57	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1000.38 mL	1.0 g	721982	06/12/25 07:33	JTR	EET SL
Total/NA	Analysis	9320		1			725551	07/02/25 09:47	SCB	EET SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Analysis	Ra226_Ra228		1			725932	07/07/25 06:57	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-8S-053025

Lab Sample ID: 180-191166-6

Date Collected: 05/30/25 18:00

Matrix: Water

Date Received: 06/03/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	497463	06/10/25 19:20	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	655156	06/10/25 06:35	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			656382	06/11/25 17:47	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	659210	06/10/25 14:00	BN	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			659511	06/11/25 15:19	S4FJ	EET CLE
	Instrument ID: I15									
Total/NA	Prep	7470A			20.0 mL	20.0 mL	658634	06/17/25 10:40	X3ZX	ELLE
Total/NA	Analysis	EPA 7470A		1			659095	06/17/25 18:56	IJ3I	ELLE
	Instrument ID: M10 – 31820									
Total/NA	Analysis	EPA 9040C		1			497222	06/05/25 11:19	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	497238	06/05/25 13:50	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			753.23 mL	1.0 g	721981	06/12/25 07:27	JTR	EET SL
Total/NA	Analysis	9315		1			726071	07/07/25 09:57	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			753.23 mL	1.0 g	721982	06/12/25 07:33	JTR	EET SL
Total/NA	Analysis	9320		1			725551	07/02/25 09:46	SCB	EET SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Analysis	Ra226_Ra228		1			725932	07/07/25 06:57	FLC	EET SL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Client Sample ID: WAP-8I-053025

Date Collected: 05/30/25 17:15
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	497463	06/10/25 19:49	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	655156	06/10/25 06:35	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			656382	06/11/25 17:50	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	659210	06/10/25 14:00	BN	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			659511	06/11/25 15:22	S4FJ	EET CLE
	Instrument ID: I15									
Total/NA	Prep	7470A			20 mL	20.0 mL	656666	06/16/25 23:55	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			659095	06/17/25 16:22	IJ3I	ELLE
	Instrument ID: M10 – 31820									
Total/NA	Analysis	EPA 9040C		1			497222	06/05/25 11:14	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	497238	06/05/25 13:50	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1004.80 mL	1.0 g	721981	06/12/25 07:27	JTR	EET SL
Total/NA	Analysis	9315		1			726071	07/07/25 09:57	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1004.80 mL	1.0 g	721982	06/12/25 07:33	JTR	EET SL
Total/NA	Analysis	9320		1			725551	07/02/25 10:04	SCB	EET SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Analysis	Ra226_Ra228		1			725932	07/07/25 06:57	FLC	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

Analyst References:

Lab: EET CLE
- Batch Type: Prep
  - BN = Benjamin Norman
- Batch Type: Analysis
  - S4FJ = Katherine Wise

Lab: EET PIT
- Batch Type: Analysis
  - BAB = Brooke Batyi
  - ERP = Evan Papak
  - LWM = Leslie McIntire

Lab: EET SL
- Batch Type: Prep
  - JTR = Josh Roglon
- Batch Type: Analysis
  - FLC = Fernando Cruz
  - SCB = Sarah Bernsen
  - SWS = Seth Stubblefield

Lab: ELLE
- Batch Type: Prep
  - UAMX = Annamaria Kuhns
  - UJL8 = James Mertz
  - X3ZX = Skyler Ruf
- Batch Type: Analysis
  - IJ3I = Elizabeth Brittingham
  - T8CQ = Sera Bargo

Client Sample ID: WAP-2RR-053025

Date Collected: 05/30/25 11:50
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-1

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40**		1.0	0.71	mg/L			06/10/25 16:26	1
Fluoride	**0.25**		0.10	0.026	mg/L			06/10/25 16:26	1
Sulfate	**110**		1.0	0.76	mg/L			06/10/25 16:26	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.5**		0.050	0.012	mg/L		06/10/25 06:35	06/11/25 17:03	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		06/10/25 14:00	06/11/25 15:06	1
Arsenic	**0.0013**	**J**	0.0050	0.00075	mg/L		06/10/25 14:00	06/11/25 15:06	1
Barium	**0.029**		0.0050	0.00077	mg/L		06/10/25 14:00	06/11/25 15:06	1
Beryllium	ND		0.0010	0.00027	mg/L		06/10/25 14:00	06/11/25 15:06	1
Cadmium	**0.00037**	**J**	0.0010	0.000077	mg/L		06/10/25 14:00	06/11/25 15:06	1
Calcium	**110**		1.0	0.25	mg/L		06/10/25 14:00	06/11/25 15:06	1
Chromium	ND		0.0050	0.0012	mg/L		06/10/25 14:00	06/11/25 15:06	1
Cobalt	**0.0014**		0.0010	0.000086	mg/L		06/10/25 14:00	06/11/25 15:06	1
Lead	ND		0.0010	0.00045	mg/L		06/10/25 14:00	06/11/25 15:06	1
Lithium	**0.020**		0.0080	0.0034	mg/L		06/10/25 14:00	06/11/25 15:06	1
Molybdenum	**0.079**		0.0050	0.0011	mg/L		06/10/25 14:00	06/11/25 15:06	1
Selenium	**0.0039**	**J**	0.0050	0.00089	mg/L		06/10/25 14:00	06/11/25 15:06	1
Thallium	ND		0.0010	0.00051	mg/L		06/10/25 14:00	06/11/25 15:06	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		06/17/25 10:40	06/17/25 18:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**530**		10	10	mg/L			06/05/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**6.7**	**HF**	0.1	0.1	SU			06/05/25 10:56	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.154	U	0.108	0.109	1.00	0.155	pCi/L	06/12/25 07:27	07/07/25 07:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*06/12/25 07:27*	*07/07/25 07:49*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.642	U	0.456	0.460	1.00	0.695	pCi/L	06/12/25 07:33	07/02/25 10:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*06/12/25 07:33*	*07/02/25 10:03*	*1*

Client Sample ID: WAP-2RR-053025

Lab Sample ID: 180-191166-1

Date Collected: 05/30/25 11:50
Matrix: Water
Date Received: 06/03/25 09:05

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	71.0		30 - 110	06/12/25 07:33	07/02/25 10:03	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.796		0.469	0.473	5.00	0.695	pCi/L		07/07/25 06:57	1

Client Sample ID: WAP-3S-053025

Date Collected: 05/30/25 15:05
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-2

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47		1.0	0.71	mg/L			06/10/25 16:55	1
Fluoride	0.38		0.10	0.026	mg/L			06/10/25 16:55	1
Sulfate	190		1.0	0.76	mg/L			06/10/25 16:55	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.8		0.050	0.012	mg/L		06/10/25 06:35	06/11/25 17:34	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		06/10/25 14:00	06/11/25 15:09	1
Arsenic	0.00095	J	0.0050	0.00075	mg/L		06/10/25 14:00	06/11/25 15:09	1
Barium	0.045		0.0050	0.00077	mg/L		06/10/25 14:00	06/11/25 15:09	1
Beryllium	ND		0.0010	0.00027	mg/L		06/10/25 14:00	06/11/25 15:09	1
Cadmium	0.000093	J	0.0010	0.000077	mg/L		06/10/25 14:00	06/11/25 15:09	1
Calcium	110		1.0	0.25	mg/L		06/10/25 14:00	06/11/25 15:09	1
Chromium	ND		0.0050	0.0012	mg/L		06/10/25 14:00	06/11/25 15:09	1
Cobalt	0.00089	J	0.0010	0.000086	mg/L		06/10/25 14:00	06/11/25 15:09	1
Lead	ND		0.0010	0.00045	mg/L		06/10/25 14:00	06/11/25 15:09	1
Lithium	0.10		0.0080	0.0034	mg/L		06/10/25 14:00	06/11/25 15:09	1
Molybdenum	0.40		0.0050	0.0011	mg/L		06/10/25 14:00	06/11/25 15:09	1
Selenium	ND		0.0050	0.00089	mg/L		06/10/25 14:00	06/11/25 15:09	1
Thallium	ND		0.0010	0.00051	mg/L		06/10/25 14:00	06/11/25 15:09	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		06/16/25 23:55	06/17/25 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	550		10	10	mg/L			06/05/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.8	HF	0.1	0.1	SU			06/04/25 14:03	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.209		0.116	0.117	1.00	0.149	pCi/L	06/12/25 07:27	07/07/25 07:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*30 - 110*	*06/12/25 07:27*	*07/07/25 07:49*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.808		0.448	0.455	1.00	0.645	pCi/L	06/12/25 07:33	07/02/25 10:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*30 - 110*	*06/12/25 07:33*	*07/02/25 10:03*	*1*

Client Sample ID: WAP-3S-053025
Lab Sample ID: 180-191166-2

Date Collected: 05/30/25 15:05
Matrix: Water
Date Received: 06/03/25 09:05

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.5		30 - 110	06/12/25 07:33	07/02/25 10:03	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.02		0.463	0.470	5.00	0.645	pCi/L		07/07/25 06:57	1

Client Sample ID: WAP-3D-053025

Date Collected: 05/30/25 15:55
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-3

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53**		1.0	0.71	mg/L			06/10/25 17:24	1
Fluoride	**0.28**		0.10	0.026	mg/L			06/10/25 17:24	1
Sulfate	**290**		5.0	3.8	mg/L			06/10/25 17:39	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**3.2**		0.050	0.012	mg/L		06/10/25 06:35	06/11/25 17:37	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		06/10/25 14:00	06/11/25 15:12	1
Arsenic	ND		0.0050	0.00075	mg/L		06/10/25 14:00	06/11/25 15:12	1
Barium	**0.018**		0.0050	0.00077	mg/L		06/10/25 14:00	06/11/25 15:12	1
Beryllium	ND		0.0010	0.00027	mg/L		06/10/25 14:00	06/11/25 15:12	1
Cadmium	**0.00016**	**J**	0.0010	0.000077	mg/L		06/10/25 14:00	06/11/25 15:12	1
Calcium	**140**		1.0	0.25	mg/L		06/10/25 14:00	06/11/25 15:12	1
Chromium	ND		0.0050	0.0012	mg/L		06/10/25 14:00	06/11/25 15:12	1
Cobalt	**0.0010**		0.0010	0.000086	mg/L		06/10/25 14:00	06/11/25 15:12	1
Lead	ND		0.0010	0.00045	mg/L		06/10/25 14:00	06/11/25 15:12	1
Lithium	**0.094**		0.0080	0.0034	mg/L		06/10/25 14:00	06/11/25 15:12	1
Molybdenum	**0.27**		0.0050	0.0011	mg/L		06/10/25 14:00	06/11/25 15:12	1
Selenium	ND		0.0050	0.00089	mg/L		06/10/25 14:00	06/11/25 15:12	1
Thallium	ND		0.0010	0.00051	mg/L		06/10/25 14:00	06/11/25 15:12	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		06/16/25 23:55	06/17/25 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**720**		10	10	mg/L			06/05/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.5**	**HF**	0.1	0.1	SU			06/05/25 11:10	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0463	U	0.0781	0.0782	1.00	0.137	pCi/L	06/12/25 07:27	07/07/25 09:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*06/12/25 07:27*	*07/07/25 09:57*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.36**		0.496	0.512	1.00	0.612	pCi/L	06/12/25 07:33	07/02/25 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*06/12/25 07:33*	*07/02/25 10:04*	*1*

Client Sample ID: WAP-3D-053025

Date Collected: 05/30/25 15:55
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-3

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	76.3		30 - 110	06/12/25 07:33	07/02/25 10:04	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.41		0.502	0.518	5.00	0.612	pCi/L		07/07/25 06:57	1

Client Sample ID: WAP-7S-053025

Date Collected: 05/30/25 13:45
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-4

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73**		1.0	0.71	mg/L			06/10/25 17:53	1
Fluoride	**0.080**	**J**	0.10	0.026	mg/L			06/10/25 17:53	1
Sulfate	**370**		5.0	3.8	mg/L			06/10/25 18:37	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**11**		0.25	0.060	mg/L		06/10/25 06:35	06/11/25 17:59	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00097**	**J**	0.0020	0.00057	mg/L		06/10/25 14:00	06/11/25 15:14	1
Arsenic	**0.0062**		0.0050	0.00075	mg/L		06/10/25 14:00	06/11/25 15:14	1
Barium	**0.049**		0.0050	0.00077	mg/L		06/10/25 14:00	06/11/25 15:14	1
Beryllium	ND		0.0010	0.00027	mg/L		06/10/25 14:00	06/11/25 15:14	1
Cadmium	ND		0.0010	0.000077	mg/L		06/10/25 14:00	06/11/25 15:14	1
Calcium	**160**		1.0	0.25	mg/L		06/10/25 14:00	06/11/25 15:14	1
Chromium	ND		0.0050	0.0012	mg/L		06/10/25 14:00	06/11/25 15:14	1
Cobalt	ND		0.0010	0.000086	mg/L		06/10/25 14:00	06/11/25 15:14	1
Lead	ND		0.0010	0.00045	mg/L		06/10/25 14:00	06/11/25 15:14	1
Lithium	**0.20**		0.0080	0.0034	mg/L		06/10/25 14:00	06/11/25 15:14	1
Molybdenum	**0.24**		0.0050	0.0011	mg/L		06/10/25 14:00	06/11/25 15:14	1
Selenium	ND		0.0050	0.00089	mg/L		06/10/25 14:00	06/11/25 15:14	1
Thallium	ND		0.0010	0.00051	mg/L		06/10/25 14:00	06/11/25 15:14	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		06/16/25 23:55	06/17/25 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**770**		10	10	mg/L			06/05/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**9.5**	**HF**	0.1	0.1	SU			06/05/25 11:05	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.117	U	0.0906	0.0912	1.00	0.129	pCi/L	06/12/25 07:27	07/07/25 09:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*06/12/25 07:27*	*07/07/25 09:57*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.145	U	0.374	0.374	1.00	0.656	pCi/L	06/12/25 07:33	07/02/25 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*06/12/25 07:33*	*07/02/25 10:04*	*1*

Client Sample ID: WAP-7S-053025

Lab Sample ID: 180-191166-4

Date Collected: 05/30/25 13:45
Matrix: Water
Date Received: 06/03/25 09:05

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*83.0*		*30 - 110*	*06/12/25 07:33*	*07/02/25 10:04*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.262	U	0.385	0.385	5.00	0.656	pCi/L		07/07/25 06:57	1

Client Sample ID: WAP-7D-053025

Date Collected: 05/30/25 12:55
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-5

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99**		1.0	0.71	mg/L			06/10/25 18:51	1
Fluoride	**0.33**		0.10	0.026	mg/L			06/10/25 18:51	1
Sulfate	**910**		10	7.6	mg/L			06/10/25 19:06	10

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**8.7**		0.25	0.060	mg/L		06/10/25 06:35	06/11/25 18:36	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		06/10/25 14:00	06/11/25 15:17	1
Arsenic	**0.0016**	**J**	0.0050	0.00075	mg/L		06/10/25 14:00	06/11/25 15:17	1
Barium	**0.028**		0.0050	0.00077	mg/L		06/10/25 14:00	06/11/25 15:17	1
Beryllium	ND		0.0010	0.00027	mg/L		06/10/25 14:00	06/11/25 15:17	1
Cadmium	ND		0.0010	0.000077	mg/L		06/10/25 14:00	06/11/25 15:17	1
Calcium	**320**		1.0	0.25	mg/L		06/10/25 14:00	06/11/25 15:17	1
Chromium	ND		0.0050	0.0012	mg/L		06/10/25 14:00	06/11/25 15:17	1
Cobalt	**0.0034**		0.0010	0.000086	mg/L		06/10/25 14:00	06/11/25 15:17	1
Lead	ND		0.0010	0.00045	mg/L		06/10/25 14:00	06/11/25 15:17	1
Lithium	**0.053**		0.0080	0.0034	mg/L		06/10/25 14:00	06/11/25 15:17	1
Molybdenum	**0.17**		0.0050	0.0011	mg/L		06/10/25 14:00	06/11/25 15:17	1
Selenium	ND		0.0050	0.00089	mg/L		06/10/25 14:00	06/11/25 15:17	1
Thallium	ND		0.0010	0.00051	mg/L		06/10/25 14:00	06/11/25 15:17	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		06/17/25 10:40	06/17/25 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1800**		10	10	mg/L			06/05/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.2**	**HF**	0.1	0.1	SU			06/05/25 11:00	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.559**		0.161	0.169	1.00	0.139	pCi/L	06/12/25 07:27	07/07/25 09:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*30 - 110*	*06/12/25 07:27*	*07/07/25 09:57*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.724	U	0.486	0.491	1.00	0.737	pCi/L	06/12/25 07:33	07/02/25 09:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*30 - 110*	*06/12/25 07:33*	*07/02/25 09:47*	*1*

Client Sample ID: WAP-7D-053025

Lab Sample ID: 180-191166-5

Date Collected: 05/30/25 12:55
Matrix: Water
Date Received: 06/03/25 09:05

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*81.1*		*30 - 110*	*06/12/25 07:33*	*07/02/25 09:47*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.28**		0.512	0.519	5.00	0.737	pCi/L		07/07/25 06:57	1

Client Sample ID: WAP-8S-053025

Date Collected: 05/30/25 18:00
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-6

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60**		1.0	0.71	mg/L			06/10/25 19:20	1
Fluoride	**0.22**		0.10	0.026	mg/L			06/10/25 19:20	1
Sulfate	**180**		1.0	0.76	mg/L			06/10/25 19:20	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**1.4**		0.050	0.012	mg/L		06/10/25 06:35	06/11/25 17:47	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		06/10/25 14:00	06/11/25 15:19	1
Arsenic	**0.015**		0.0050	0.00075	mg/L		06/10/25 14:00	06/11/25 15:19	1
Barium	**0.091**		0.0050	0.00077	mg/L		06/10/25 14:00	06/11/25 15:19	1
Beryllium	ND		0.0010	0.00027	mg/L		06/10/25 14:00	06/11/25 15:19	1
Cadmium	ND		0.0010	0.000077	mg/L		06/10/25 14:00	06/11/25 15:19	1
Calcium	**94**		1.0	0.25	mg/L		06/10/25 14:00	06/11/25 15:19	1
Chromium	ND		0.0050	0.0012	mg/L		06/10/25 14:00	06/11/25 15:19	1
Cobalt	**0.0012**		0.0010	0.000086	mg/L		06/10/25 14:00	06/11/25 15:19	1
Lead	ND		0.0010	0.00045	mg/L		06/10/25 14:00	06/11/25 15:19	1
Lithium	**0.018**		0.0080	0.0034	mg/L		06/10/25 14:00	06/11/25 15:19	1
Molybdenum	**0.18**		0.0050	0.0011	mg/L		06/10/25 14:00	06/11/25 15:19	1
Selenium	ND		0.0050	0.00089	mg/L		06/10/25 14:00	06/11/25 15:19	1
Thallium	ND		0.0010	0.00051	mg/L		06/10/25 14:00	06/11/25 15:19	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		06/17/25 10:40	06/17/25 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**550**		10	10	mg/L			06/05/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.4**	**HF**	0.1	0.1	SU			06/05/25 11:19	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.240**		0.154	0.155	1.00	0.214	pCi/L	06/12/25 07:27	07/07/25 09:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.0*		*30 - 110*	*06/12/25 07:27*	*07/07/25 09:57*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.380	U	0.501	0.502	1.00	0.836	pCi/L	06/12/25 07:33	07/02/25 09:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.0*		*30 - 110*	*06/12/25 07:33*	*07/02/25 09:46*	*1*

Client Sample ID: WAP-8S-053025

Lab Sample ID: 180-191166-6

Date Collected: 05/30/25 18:00
Matrix: Water
Date Received: 06/03/25 09:05

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*80.4*		*30 - 110*	*06/12/25 07:33*	*07/02/25 09:46*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.620	U	0.524	0.525	5.00	0.836	pCi/L		07/07/25 06:57	1

Client Sample ID: WAP-8I-053025

Date Collected: 05/30/25 17:15
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-7

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28**		1.0	0.71	mg/L			06/10/25 19:49	1
Fluoride	**0.20**		0.10	0.026	mg/L			06/10/25 19:49	1
Sulfate	**64**		1.0	0.76	mg/L			06/10/25 19:49	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.11**		0.050	0.012	mg/L		06/10/25 06:35	06/11/25 17:50	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		06/10/25 14:00	06/11/25 15:22	1
Arsenic	**0.0052**		0.0050	0.00075	mg/L		06/10/25 14:00	06/11/25 15:22	1
Barium	**0.062**		0.0050	0.00077	mg/L		06/10/25 14:00	06/11/25 15:22	1
Beryllium	ND		0.0010	0.00027	mg/L		06/10/25 14:00	06/11/25 15:22	1
Cadmium	ND		0.0010	0.000077	mg/L		06/10/25 14:00	06/11/25 15:22	1
Calcium	**43**		1.0	0.25	mg/L		06/10/25 14:00	06/11/25 15:22	1
Chromium	ND		0.0050	0.0012	mg/L		06/10/25 14:00	06/11/25 15:22	1
Cobalt	**0.00048**	**J**	0.0010	0.000086	mg/L		06/10/25 14:00	06/11/25 15:22	1
Lead	ND		0.0010	0.00045	mg/L		06/10/25 14:00	06/11/25 15:22	1
Lithium	ND		0.0080	0.0034	mg/L		06/10/25 14:00	06/11/25 15:22	1
Molybdenum	**0.021**		0.0050	0.0011	mg/L		06/10/25 14:00	06/11/25 15:22	1
Selenium	ND		0.0050	0.00089	mg/L		06/10/25 14:00	06/11/25 15:22	1
Thallium	ND		0.0010	0.00051	mg/L		06/10/25 14:00	06/11/25 15:22	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		06/16/25 23:55	06/17/25 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**260**		10	10	mg/L			06/05/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.4**	**HF**	0.1	0.1	SU			06/05/25 11:14	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.261**		0.129	0.131	1.00	0.161	pCi/L	06/12/25 07:27	07/07/25 09:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*06/12/25 07:27*	*07/07/25 09:57*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.681	U	0.478	0.482	1.00	0.729	pCi/L	06/12/25 07:33	07/02/25 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*06/12/25 07:33*	*07/02/25 10:04*	*1*

Client Sample ID: WAP-8I-053025

Date Collected: 05/30/25 17:15
Date Received: 06/03/25 09:05

Lab Sample ID: 180-191166-7

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*82.2*		*30 - 110*	*06/12/25 07:33*	*07/02/25 10:04*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.942**		0.495	0.499	5.00	0.729	pCi/L		07/07/25 06:57	1

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-497463/6
Matrix: Water
Analysis Batch: 497463

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			06/10/25 10:32	1
Fluoride	ND		0.10	0.026	mg/L			06/10/25 10:32	1
Sulfate	ND		1.0	0.76	mg/L			06/10/25 10:32	1

Lab Sample ID: LCS 180-497463/7
Matrix: Water
Analysis Batch: 497463

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.7		mg/L		95	80 - 120
Fluoride	2.50	2.43		mg/L		97	80 - 120
Sulfate	50.0	47.5		mg/L		95	80 - 120

Method: EPA 6010D - Metals (ICP)

Lab Sample ID: MB 410-655156/1-A
Matrix: Water
Analysis Batch: 656382

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 655156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.012	mg/L		06/10/25 06:35	06/11/25 16:57	1

Lab Sample ID: LCS 410-655156/2-A
Matrix: Water
Analysis Batch: 656382

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 655156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.474		mg/L		95	83 - 119

Lab Sample ID: 180-191166-1 MS
Matrix: Water
Analysis Batch: 656382

Client Sample ID: WAP-2RR-053025
Prep Type: Total Recoverable
Prep Batch: 655156

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2.5		0.500	2.91	4	mg/L		88	75 - 125

Lab Sample ID: 180-191166-1 MSD
Matrix: Water
Analysis Batch: 656382

Client Sample ID: WAP-2RR-053025
Prep Type: Total Recoverable
Prep Batch: 655156

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	2.5		0.500	2.91	4	mg/L		88	75 - 125	0	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-659210/1-A
Matrix: Water
Analysis Batch: 659511

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 659210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		06/10/25 14:00	06/11/25 14:43	1
Arsenic	ND		0.0050	0.00075	mg/L		06/10/25 14:00	06/11/25 14:43	1
Barium	ND		0.0050	0.00077	mg/L		06/10/25 14:00	06/11/25 14:43	1
Beryllium	ND		0.0010	0.00027	mg/L		06/10/25 14:00	06/11/25 14:43	1
Cadmium	ND		0.0010	0.000077	mg/L		06/10/25 14:00	06/11/25 14:43	1
Calcium	ND		1.0	0.25	mg/L		06/10/25 14:00	06/11/25 14:43	1
Chromium	ND		0.0050	0.0012	mg/L		06/10/25 14:00	06/11/25 14:43	1
Cobalt	ND		0.0010	0.000086	mg/L		06/10/25 14:00	06/11/25 14:43	1
Lead	ND		0.0010	0.00045	mg/L		06/10/25 14:00	06/11/25 14:43	1
Lithium	ND		0.0080	0.0034	mg/L		06/10/25 14:00	06/11/25 14:43	1
Molybdenum	ND		0.0050	0.0011	mg/L		06/10/25 14:00	06/11/25 14:43	1
Selenium	ND		0.0050	0.00089	mg/L		06/10/25 14:00	06/11/25 14:43	1
Thallium	ND		0.0010	0.00051	mg/L		06/10/25 14:00	06/11/25 14:43	1

Lab Sample ID: LCS 240-659210/2-A
Matrix: Water
Analysis Batch: 659511

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 659210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.100		mg/L		100	80 - 120
Arsenic	1.00	0.991		mg/L		99	80 - 120
Barium	1.00	0.989		mg/L		99	80 - 120
Beryllium	0.500	0.504		mg/L		101	80 - 120
Cadmium	0.500	0.496		mg/L		99	80 - 120
Calcium	25.0	25.5		mg/L		102	80 - 120
Chromium	0.500	0.508		mg/L		102	80 - 120
Cobalt	0.500	0.488		mg/L		98	80 - 120
Lead	0.500	0.537		mg/L		107	80 - 120
Lithium	0.500	0.532		mg/L		106	80 - 120
Molybdenum	0.500	0.501		mg/L		100	80 - 120
Selenium	1.00	0.976		mg/L		98	80 - 120
Thallium	1.00	1.15		mg/L		115	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-656666/1-A
Matrix: Water
Analysis Batch: 659095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 656666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		06/16/25 23:55	06/17/25 15:57	1

Lab Sample ID: LCS 410-656666/2-A
Matrix: Water
Analysis Batch: 659095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 656666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.000949		mg/L		95	80 - 118

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-658634/1-A
Matrix: Water
Analysis Batch: 659095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 658634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		06/17/25 10:40	06/17/25 18:33	1

Lab Sample ID: LCS 410-658634/2-A
Matrix: Water
Analysis Batch: 659095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 658634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00115		mg/L		115	80 - 118

Method: EPA 9040C - pH

Lab Sample ID: LCS 180-497201/24
Matrix: Water
Analysis Batch: 497201

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 180-191166-2 DU
Matrix: Water
Analysis Batch: 497201

Client Sample ID: WAP-3S-053025
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.8	HF	7.8		SU		0.3	2

Lab Sample ID: LCS 180-497222/1
Matrix: Water
Analysis Batch: 497222

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

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

Lab Sample ID: MB 180-497238/1
Matrix: Water
Analysis Batch: 497238

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		10	10	mg/L			06/05/25 13:50	1

Lab Sample ID: LCS 180-497238/2
Matrix: Water
Analysis Batch: 497238

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	176	156		mg/L		89	85 - 115

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

Lab Sample ID: 180-191166-6 DU
Matrix: Water
Analysis Batch: 497238

Client Sample ID: WAP-8S-053025
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	550			553		mg/L				0.7	10

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-721981/1-A
Matrix: Water
Analysis Batch: 725812

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721981

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05087	U	0.0798	0.0799	1.00	0.138	pCi/L	06/12/25 07:27	07/07/25 07:47	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.6*		*30 - 110*	*06/12/25 07:27*	*07/07/25 07:47*	*1*

Lab Sample ID: LCS 160-721981/2-A
Matrix: Water
Analysis Batch: 725812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721981

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	9.208		1.03	1.00	0.157	pCi/L	96	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*82.6*		*30 - 110*

Lab Sample ID: 180-191166-1 DU
Matrix: Water
Analysis Batch: 726097

Client Sample ID: WAP-2RR-053025
Prep Type: Total/NA
Prep Batch: 721981

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.154	U		0.000948 2	U	0.0770	1.00	0.155	pCi/L			0.83	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*85.1*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-721982/1-A
Matrix: Water
Analysis Batch: 725542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721982

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5078	U	0.418	0.421	1.00	0.653	pCi/L	06/12/25 07:33	07/02/25 10:02	1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-721982/1-A
Matrix: Water
Analysis Batch: 725542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721982

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		30 - 110	06/12/25 07:33	07/02/25 10:02	1
Y Carrier	81.1		30 - 110	06/12/25 07:33	07/02/25 10:02	1

Lab Sample ID: LCS 160-721982/2-A
Matrix: Water
Analysis Batch: 725542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721982

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.30	12.58		1.64	1.00	0.582	pCi/L	135	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	82.6		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: 180-191166-1 DU
Matrix: Water
Analysis Batch: 725542

Client Sample ID: WAP-2RR-053025
Prep Type: Total/NA
Prep Batch: 721982

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.642	U		0.4747	U	0.426	1.00	0.671	pCi/L			0.19	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.1		30 - 110
Y Carrier	75.9		30 - 110

HPLC/IC

Analysis Batch: 497463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total/NA	Water	EPA 9056A	
180-191166-2	WAP-3S-053025	Total/NA	Water	EPA 9056A	
180-191166-3	WAP-3D-053025	Total/NA	Water	EPA 9056A	
180-191166-3	WAP-3D-053025	Total/NA	Water	EPA 9056A	
180-191166-4	WAP-7S-053025	Total/NA	Water	EPA 9056A	
180-191166-4	WAP-7S-053025	Total/NA	Water	EPA 9056A	
180-191166-5	WAP-7D-053025	Total/NA	Water	EPA 9056A	
180-191166-5	WAP-7D-053025	Total/NA	Water	EPA 9056A	
180-191166-6	WAP-8S-053025	Total/NA	Water	EPA 9056A	
180-191166-7	WAP-8I-053025	Total/NA	Water	EPA 9056A	
MB 180-497463/6	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-497463/7	Lab Control Sample	Total/NA	Water	EPA 9056A	

Metals

Prep Batch: 655156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total Recoverable	Water	3005A	
180-191166-2	WAP-3S-053025	Total Recoverable	Water	3005A	
180-191166-3	WAP-3D-053025	Total Recoverable	Water	3005A	
180-191166-4	WAP-7S-053025	Total Recoverable	Water	3005A	
180-191166-5	WAP-7D-053025	Total Recoverable	Water	3005A	
180-191166-6	WAP-8S-053025	Total Recoverable	Water	3005A	
180-191166-7	WAP-8I-053025	Total Recoverable	Water	3005A	
MB 410-655156/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-655156/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-191166-1 MS	WAP-2RR-053025	Total Recoverable	Water	3005A	
180-191166-1 MSD	WAP-2RR-053025	Total Recoverable	Water	3005A	

Analysis Batch: 656382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total Recoverable	Water	EPA 6010D	655156
180-191166-2	WAP-3S-053025	Total Recoverable	Water	EPA 6010D	655156
180-191166-3	WAP-3D-053025	Total Recoverable	Water	EPA 6010D	655156
180-191166-4	WAP-7S-053025	Total Recoverable	Water	EPA 6010D	655156
180-191166-5	WAP-7D-053025	Total Recoverable	Water	EPA 6010D	655156
180-191166-6	WAP-8S-053025	Total Recoverable	Water	EPA 6010D	655156
180-191166-7	WAP-8I-053025	Total Recoverable	Water	EPA 6010D	655156
MB 410-655156/1-A	Method Blank	Total Recoverable	Water	EPA 6010D	655156
LCS 410-655156/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6010D	655156
180-191166-1 MS	WAP-2RR-053025	Total Recoverable	Water	EPA 6010D	655156
180-191166-1 MSD	WAP-2RR-053025	Total Recoverable	Water	EPA 6010D	655156

Prep Batch: 656666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-2	WAP-3S-053025	Total/NA	Water	7470A	
180-191166-3	WAP-3D-053025	Total/NA	Water	7470A	
180-191166-4	WAP-7S-053025	Total/NA	Water	7470A	
180-191166-7	WAP-8I-053025	Total/NA	Water	7470A	
MB 410-656666/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-656666/2-A	Lab Control Sample	Total/NA	Water	7470A	

Metals

Prep Batch: 658634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total/NA	Water	7470A	
180-191166-5	WAP-7D-053025	Total/NA	Water	7470A	
180-191166-6	WAP-8S-053025	Total/NA	Water	7470A	
MB 410-658634/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-658634/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 659095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total/NA	Water	EPA 7470A	658634
180-191166-2	WAP-3S-053025	Total/NA	Water	EPA 7470A	656666
180-191166-3	WAP-3D-053025	Total/NA	Water	EPA 7470A	656666
180-191166-4	WAP-7S-053025	Total/NA	Water	EPA 7470A	656666
180-191166-5	WAP-7D-053025	Total/NA	Water	EPA 7470A	658634
180-191166-6	WAP-8S-053025	Total/NA	Water	EPA 7470A	658634
180-191166-7	WAP-8I-053025	Total/NA	Water	EPA 7470A	656666
MB 410-656666/1-A	Method Blank	Total/NA	Water	EPA 7470A	656666
MB 410-658634/1-A	Method Blank	Total/NA	Water	EPA 7470A	658634
LCS 410-656666/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	656666
LCS 410-658634/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	658634

Prep Batch: 659210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total Recoverable	Water	3005A	
180-191166-2	WAP-3S-053025	Total Recoverable	Water	3005A	
180-191166-3	WAP-3D-053025	Total Recoverable	Water	3005A	
180-191166-4	WAP-7S-053025	Total Recoverable	Water	3005A	
180-191166-5	WAP-7D-053025	Total Recoverable	Water	3005A	
180-191166-6	WAP-8S-053025	Total Recoverable	Water	3005A	
180-191166-7	WAP-8I-053025	Total Recoverable	Water	3005A	
MB 240-659210/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-659210/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 659511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total Recoverable	Water	EPA 6020B	659210
180-191166-2	WAP-3S-053025	Total Recoverable	Water	EPA 6020B	659210
180-191166-3	WAP-3D-053025	Total Recoverable	Water	EPA 6020B	659210
180-191166-4	WAP-7S-053025	Total Recoverable	Water	EPA 6020B	659210
180-191166-5	WAP-7D-053025	Total Recoverable	Water	EPA 6020B	659210
180-191166-6	WAP-8S-053025	Total Recoverable	Water	EPA 6020B	659210
180-191166-7	WAP-8I-053025	Total Recoverable	Water	EPA 6020B	659210
MB 240-659210/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	659210
LCS 240-659210/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	659210

General Chemistry

Analysis Batch: 497201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-2	WAP-3S-053025	Total/NA	Water	EPA 9040C	
LCS 180-497201/24	Lab Control Sample	Total/NA	Water	EPA 9040C	
180-191166-2 DU	WAP-3S-053025	Total/NA	Water	EPA 9040C	

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-191166-1
SDG: FB Culley West

General Chemistry

Analysis Batch: 497222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total/NA	Water	EPA 9040C	
180-191166-3	WAP-3D-053025	Total/NA	Water	EPA 9040C	
180-191166-4	WAP-7S-053025	Total/NA	Water	EPA 9040C	
180-191166-5	WAP-7D-053025	Total/NA	Water	EPA 9040C	
180-191166-6	WAP-8S-053025	Total/NA	Water	EPA 9040C	
180-191166-7	WAP-8I-053025	Total/NA	Water	EPA 9040C	
LCS 180-497222/1	Lab Control Sample	Total/NA	Water	EPA 9040C	

Analysis Batch: 497238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total/NA	Water	SM 2540C	
180-191166-2	WAP-3S-053025	Total/NA	Water	SM 2540C	
180-191166-3	WAP-3D-053025	Total/NA	Water	SM 2540C	
180-191166-4	WAP-7S-053025	Total/NA	Water	SM 2540C	
180-191166-5	WAP-7D-053025	Total/NA	Water	SM 2540C	
180-191166-6	WAP-8S-053025	Total/NA	Water	SM 2540C	
180-191166-7	WAP-8I-053025	Total/NA	Water	SM 2540C	
MB 180-497238/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-497238/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-191166-6 DU	WAP-8S-053025	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 721981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total/NA	Water	PrecSep-21	
180-191166-2	WAP-3S-053025	Total/NA	Water	PrecSep-21	
180-191166-3	WAP-3D-053025	Total/NA	Water	PrecSep-21	
180-191166-4	WAP-7S-053025	Total/NA	Water	PrecSep-21	
180-191166-5	WAP-7D-053025	Total/NA	Water	PrecSep-21	
180-191166-6	WAP-8S-053025	Total/NA	Water	PrecSep-21	
180-191166-7	WAP-8I-053025	Total/NA	Water	PrecSep-21	
MB 160-721981/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-721981/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-191166-1 DU	WAP-2RR-053025	Total/NA	Water	PrecSep-21	

Prep Batch: 721982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-191166-1	WAP-2RR-053025	Total/NA	Water	PrecSep_0	
180-191166-2	WAP-3S-053025	Total/NA	Water	PrecSep_0	
180-191166-3	WAP-3D-053025	Total/NA	Water	PrecSep_0	
180-191166-4	WAP-7S-053025	Total/NA	Water	PrecSep_0	
180-191166-5	WAP-7D-053025	Total/NA	Water	PrecSep_0	
180-191166-6	WAP-8S-053025	Total/NA	Water	PrecSep_0	
180-191166-7	WAP-8I-053025	Total/NA	Water	PrecSep_0	
MB 160-721982/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-721982/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-191166-1 DU	WAP-2RR-053025	Total/NA	Water	PrecSep_0	

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

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Client Information	Sampler: Francis Reed	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-114068-14503 1
Client Contact: Britton Hundley	Phone: 614-288-8619	E-Mail: Andy Johnson@et.eurofinsus com	State of Origin: IN	Page: Page 1 of 1
Company: Haley & Aldrich, Inc	PWSID:	Analysis Requested		Job #: 0129420-032
Address: 400 Augusta Street Suite 100	Due Date Requested:			Preservation Codes: N - None D - HNO3
City: Greenville	TAT Requested (days): STD			
State, Zip: SC, 29601	Compliance Project: Δ Yes Δ No			
Phone	PO #: 0129420-032-001-02			
Email: BHundley@haleyaldrich.com	WO #: See Chain			
Project Name: CCR GW Monitoring FB Culley West	Project #: 18016014			Other:
Site	SSOW#:			

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)	9040C, 9056A_ORGFM_28D	2540C_Calcd - TDS by 2540C	9315_Ra226, 9320_Ra228	6020B - Metals by 6020B	7470A - Hg by 7470A	6010D - Boron by 6010D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	D	D	D		
WAP-2RR -053025	05/30/25	11:50	G	Water	N	N	X	X	X	X	X	X	6	
WAP-3S -053025		15:05	G	Water	N	N	X	X	X	X	X	X	6	
WAP-3D -053025		15:55	G	Water	N	N	X	X	X	X	X	X	6	
WAP-7S -053025		13:45	G	Water	N	N	X	X	X	X	X	X	6	
WAP-7D -053025		12:55	G	Water	N	N	X	X	X	X	X	X	6	
WAP-8S -053025		18:00	G	Water	N	N	X	X	X	X	X	X	6	
WAP-8I -053025		17:15	G	Water	N	N	X	X	X	X	X	X	6	

180-191166 Chain of Custody

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
Francis Reed	6/2/25 10:00	H&A		6/3/25 0905	EPHMS
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

Ver: 10/10/2024

ORIGIN ID:AGCA (412) 579-4082
N CORPORATION
(OA)
NEWBURGH,
UNITED STATE
30

SHIP DATE: 21MAY25
ACTWGT: 30.00 LB MAN
CAD: 0522321/CAFE3907

Part # 159469-434 MTW EXP 11/25

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 3.8 °C
Thermometer ID #26-09
CF -0.9 Initials

FedEx Express

TRK# 0221 4359 6084 0505

65 AGCA

TUE - 03 JUN 10:30A
PRIORITY OVERNIGHT

15238
PA-US PIT

180-191166 Waybill

1BGJ4557259F2

P 03/26 PT-WI-SR-001 effective 7/26/13

ORIGIN ID:AGCA (317) 579-4082
LINDSEY GISH
FB CULLEY VECTREN CORPORATION
3711 DARLINGTON ROAD

NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 21MAY25
ACTWGT: 30.00 LB MAN
CAD: 0522321/CAFE3907

Part # 159469-434 MTW EXP 11/25
58CC4/E836/FE2D

TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 5.1 °C
Thermometer ID #20
CF -0.9 Initials fh
PT-WI-SR-001 effective 7/26/13

FedEx Express

2411140101

Uncorrected temp °C

TRK#

TUE - 03 JUN 10:30A
PRIORITY OVERNIGHT

15238
PIT
PA-US

FedEx
TRK# 0221
4359 6084 0516

65 AGCA

5GGJ4557259F2

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Andy	Carrier Tracking No(s): N/A	COC No: 180-540112.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Indiana	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 180-191166-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 7/7/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: CCR Groundwater Monitoring FB Culley West	Project #: 18016014			Other: N/A
Site: N/A	SSOW#: 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)	9315_Ra226/PrecSep_21 Radium-226 (GFPC) by 9315 (21-day decay)	9320_Ra228/PrecSep_0 Radium-228 (GFPC) by 9320	Ra226Ra228_GFPC/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
Preservation Code:											
WAP-2RR-053025 (180-191166-1)	5/30/25	11:50 Eastern	G	Water			X	X	X	2	
WAP-3S-053025 (180-191166-2)	5/30/25	15:05 Eastern	G	Water			X	X	X	2	
WAP-3D-053025 (180-191166-3)	5/30/25	15:55 Eastern	G	Water			X	X	X	2	
WAP-7S-053025 (180-191166-4)	5/30/25	13:45 Eastern	G	Water			X	X	X	2	
WAP-7D-053025 (180-191166-5)	5/30/25	12:55 Eastern	G	Water			X	X	X	2	
WAP-8S-053025 (180-191166-6)	5/30/25	18:00 Eastern	G	Water			X	X	X	2	
WAP-8I-053025 (180-191166-7)	5/30/25	17:15 Eastern	G	Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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 Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

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: 6/10/25 1700	Company CR.HLO	Received by:	Date/Time: 0820 JUN 11 2025	Company
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	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:

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 180-191166-1
SDG Number: FB Culley West

Login Number: 191166
List Number: 1
Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

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	
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.	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.

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 180-191166-1
SDG Number: FB Culley West

Login Number: 191166
List Number: 4
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 06/11/25 11:54 AM

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.	N/A	
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?	N/A	
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").	N/A	
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.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13

ANALYTICAL REPORT

PREPARED FOR

Attn: Britton Hundley
Haley & Aldrich Inc
400 Augusta Street
Suite 100
Greenville, South Carolina 29601

Generated 12/22/2025 6:20:24 PM

JOB DESCRIPTION

CCR Groundwater Monitoring FB Culley West
FB Culley West

JOB NUMBER

180-198516-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

myEOL

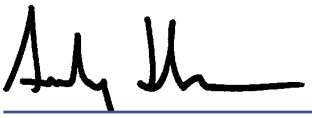
Job Notes

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.

PA Lab ID: 02-00416

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 Pittsburgh Project Manager.

Authorization



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Authorized for release by
Andy Johnson, Senior Project Manager
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(615)818-9567

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Job Narrative
180-198516-1

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 11/14/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 2.7°C, 2.7°C, 3.7°C, 3.7°C, 4.1°C, 4.4°C, 4.6°C, 4.7°C and 4.8°C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WAP-9D-111325 (180-198516-21). The container labels list a sample time of 1200. Logged per the chain.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WAP-9I-111325 (180-198516-20). The container labels list a sample time of 1010. Logged per the chain.

Limited volume notated on chain - only one RAD container submitted for analysis. WAP-1-111325 (180-198516-1)

Container was received with a low volume of 400mL. No leakage was found nor is the container broken. WAP-1-111325 (180-198516-1)

Gas Flow Proportional Counter
Method 9320_Ra228: Radium 228 batch 746143
The sample duplicate (DUP) precision for Radium-228 was outside the control limits. However the original sample and DUP activity is below the RL making the measurement of precision less critical. The lab does not believe this discrepancy to have a negative impact on the data being reported. WAP-4I-111125 (180-198516-6[DU])

Method 9320_Ra228: Radium 228 batch 746143
The LCS recovered at (135%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (68%-154%) per method requirements. The LCS passes, no further action is required. (LCS 160-746143/2-A)

Method 9320_Ra228: Radium-228 batch 746143
The detection goal was not met for the following sample due to the reduced sample volume used in prep attributed to the presence of matrix interferences: WAP-1-111325 (180-198516-1). Analytical results are reported with the detection limit achieved.

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

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

Job ID: 180-198516-2 Eurofins Pittsburgh

Job Narrative
180-198516-2

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 11/14/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 2.7°C, 2.7°C, 3.7°C, 3.7°C, 4.1°C, 4.4°C, 4.6°C, 4.7°C and 4.8°C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WAP-9D-111325 (180-198516-21). The container labels list a sample time of 1200. Logged per the chain.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WAP-9I-111325 (180-198516-20). The container labels list a sample time of 1010. Logged per the chain.

Limited volume notated on chain - only one RAD container submitted for analysis.

WAP-1-111325 (180-198516-1)

Container was received with a low volume of 400mL. No leakage was found nor is the container broken.

WAP-1-111325 (180-198516-1)

HPLC/IC
Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: WAP-1-111325 (180-198516-1), WAP-3D-111225 (180-198516-4), WAP-4S-111125 (180-198516-5), WAP-5S-111125 (180-198516-8), WAP-7S-111225 (180-198516-14), WAP-7D-111225 (180-198516-15) and WAP-8S-111125 (180-198516-16). Elevated reporting limits (RLs) are provided.

Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: WAP-3S-111225 (180-198516-3) and DUP-2-111225 (180-198516-24). 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.

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.

Definitions/Glossary

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Rad

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

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

Accreditation/Certification Summary

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00690	06-28-25 *
California	State	2891	04-30-26
Connecticut	State	PH-0820	09-30-26
Florida	NELAP	E871008	06-30-25 *
Georgia	State	PA 02-00416	04-30-26
Illinois	NELAP	200005	07-31-25 *
Kansas	NELAP	E-10350	01-31-26
Kentucky (UST)	State	162013	04-30-26
Kentucky (WW)	State	KY98043	12-31-25
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-25 *
Maine	State	PA00164	03-06-26
Minnesota	NELAP	042-999-482	12-31-25
New Hampshire	NELAP	2030	04-04-26
New Jersey	NELAP	PA005	06-30-25 *
New York	NELAP	11182	03-31-26
North Carolina (WW/SW)	State	434	12-31-25
North Dakota	State	R-227	04-30-24 *
Oregon	NELAP	PA-2151	02-06-26
Pennsylvania	NELAP	02-00416	04-30-26
Rhode Island	State	LAO00375	12-30-25
South Carolina	State	89014	04-30-25 *
Texas	NELAP	T104704528	03-31-26
US Fish & Wildlife	US Federal Programs	A21930	04-30-26
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462024-14	03-31-24 *
Virginia	NELAP	460189	09-30-26
West Virginia DEP	State	142	01-31-26
Wisconsin	State	998027800	08-31-26

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	09-30-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	2250	09-30-26
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	02-27-26
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Laboratory: Eurofins Cleveland (Continued)

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704517	08-31-26
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-30-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-26
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-26
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-26
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-26
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Ohio	State	87787	01-31-26
Oklahoma	NELAP	9804	12-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	PA200001	09-11-26
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-26
USDA	US Federal Programs	525-22-298-19481	01-23-26
Vermont	State	VT - 36037	10-28-26
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-26
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-27
ANAB	Dept. of Defense ELAP	L2305	04-06-27
ANAB	Dept. of Energy	L2305.01	04-06-27
ANAB	ISO/IEC 17025	L2305	04-06-27
Arizona	State	AZ0813	12-08-26
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	07-01-26
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-26
HI - RadChem Recognition	State	n/a	06-30-26
Illinois	NELAP	200023	11-30-26
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-26
Kentucky (DW)	State	KY90125	12-31-25
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-25
Louisiana (All)	NELAP	106151	06-30-26
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	10-01-26
Massachusetts	State	M-MO054	06-30-26
MI - RadChem Recognition	State	9005	06-30-26
Missouri	State	780	06-30-28
Nevada	State	MO00054	07-31-26
New Jersey	NELAP	MO002	06-30-26
New Mexico	State	MO00054	06-30-26
New York	NELAP	11616	03-31-26
North Carolina (DW)	State	29700	06-30-26
North Dakota	State	R-207	06-30-26
Oklahoma	NELAP	9997	12-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Laboratory: Eurofins St. Louis (Continued)

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4157	09-01-26
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-26
Texas	NELAP	T104704193	07-31-26
US Fish & Wildlife	US Federal Programs	058448	07-31-26
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-26
Virginia	NELAP	460230	06-14-26
Washington	State	C592	08-31-26
West Virginia DEP	State	381	10-31-26

Sample Summary

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
180-198516-1	WAP-1-111325	Water	11/13/25 11:40	11/14/25 09:00	Indiana
180-198516-2	WAP-2RR-111225	Water	11/12/25 14:30	11/14/25 09:00	Indiana
180-198516-3	WAP-3S-111225	Water	11/12/25 08:30	11/14/25 09:00	Indiana
180-198516-4	WAP-3D-111225	Water	11/12/25 09:50	11/14/25 09:00	Indiana
180-198516-5	WAP-4S-111125	Water	11/11/25 09:35	11/14/25 09:00	Indiana
180-198516-6	WAP-4I-111125	Water	11/11/25 11:30	11/14/25 09:00	Indiana
180-198516-7	WAP-4D-111125	Water	11/11/25 13:40	11/14/25 09:00	Indiana
180-198516-8	WAP-5S-111125	Water	11/11/25 16:35	11/14/25 09:00	Indiana
180-198516-9	WAP-5I-111125	Water	11/11/25 15:45	11/14/25 09:00	Indiana
180-198516-10	WAP-5D-111125	Water	11/11/25 14:15	11/14/25 09:00	Indiana
180-198516-11	WAP-6S-111325	Water	11/13/25 08:50	11/14/25 09:00	Indiana
180-198516-12	WAP-6I-111125	Water	11/11/25 09:40	11/14/25 09:00	Indiana
180-198516-13	WAP-6D-111125	Water	11/11/25 11:25	11/14/25 09:00	Indiana
180-198516-14	WAP-7S-111225	Water	11/12/25 13:05	11/14/25 09:00	Indiana
180-198516-15	WAP-7D-111225	Water	11/12/25 11:40	11/14/25 09:00	Indiana
180-198516-16	WAP-8S-111125	Water	11/11/25 15:55	11/14/25 09:00	Indiana
180-198516-17	WAP-8I-111125	Water	11/11/25 08:20	11/14/25 09:00	Indiana
180-198516-18	WAP-8D-111225	Water	11/12/25 09:50	11/14/25 09:00	Indiana
180-198516-19	WAP-9S-111325	Water	11/13/25 13:13	11/14/25 09:00	Indiana
180-198516-20	WAP-9I-111325	Water	11/13/25 12:00	11/14/25 09:00	Indiana
180-198516-21	WAP-9D-111325	Water	11/13/25 10:10	11/14/25 09:00	Indiana
180-198516-22	CCR-AP-7-111325	Water	11/13/25 10:20	11/14/25 09:00	Indiana
180-198516-23	DUP-1-111125	Water	11/11/25 11:30	11/14/25 09:00	Indiana
180-198516-24	DUP-2-111225	Water	11/12/25 00:00	11/14/25 09:00	Indiana
180-198516-25	FB-1-111325	Water	11/13/25 08:00	11/14/25 09:00	Indiana

Method Summary

Client: Haley & Aldrich Inc
Job ID: 180-198516-1
Project/Site: CCR Groundwater Monitoring FB Culley West
SDG: FB Culley West

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Haley & Aldrich Inc
Job ID: 180-198516-1
Project/Site: CCR Groundwater Monitoring FB Culley West
SDG: FB Culley West

Client Sample ID: WAP-1-111325
Lab Sample ID: 180-198516-1
Date Collected: 11/13/25 11:40
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 00:39	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506495	11/18/25 00:53	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 18:35	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:01	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:40	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 12:26	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506515	11/17/25 13:06	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			394.96 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 13:31	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			394.96 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:17	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-2RR-111225
Lab Sample ID: 180-198516-2
Date Collected: 11/12/25 14:30
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 01:08	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 18:38	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:09	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:42	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 12:21	BAB	EET PIT
	Instrument ID: OZ									

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-2RR-111225

Lab Sample ID: 180-198516-2

Date Collected: 11/12/25 14:30
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506515	11/17/25 13:06	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1000.94 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 13:31	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1000.94 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:17	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-3S-111225

Lab Sample ID: 180-198516-3

Date Collected: 11/12/25 08:30
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 01:22	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		2	1 mL	1 mL	506577	11/18/25 19:59	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 18:45	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:12	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:44	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 14:10	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506515	11/17/25 13:06	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			994.64 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 13:33	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			994.64 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:17	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-3D-111225

Date Collected: 11/12/25 09:50
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 01:37	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506495	11/18/25 01:51	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 18:41	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:15	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:45	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 13:23	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506515	11/17/25 13:06	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			997.83 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 13:33	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			997.83 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:17	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-4S-111125

Date Collected: 11/11/25 09:35
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 02:06	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506495	11/18/25 02:50	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			735018	11/24/25 20:53	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:17	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:51	IJ3I	ELLE
	Instrument ID: M16									

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-4S-111125

Date Collected: 11/11/25 09:35
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 13:50	BAB	EET PIT
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506515	11/17/25 13:06	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1004.21 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 13:32	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1004.21 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:17	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-4I-111125

Date Collected: 11/11/25 11:30
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 04:17	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 18:08	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 14:48	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:32	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 11:45	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1003.56 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 13:32	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1003.56 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-4D-111125
Lab Sample ID: 180-198516-7

Date Collected: 11/11/25 13:40
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 03:04	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 18:51	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:20	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:53	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 12:17	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1004.37 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 16:22	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1004.37 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-5S-111125
Lab Sample ID: 180-198516-8

Date Collected: 11/11/25 16:35
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 03:19	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506495	11/18/25 03:33	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			735018	11/24/25 20:56	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:23	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:55	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 12:50	BAB	EET PIT
	Instrument ID: OZ									

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-5S-111125

Date Collected: 11/11/25 16:35
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
Total/NA	Prep	PrecSep-21			751.72 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 16:22	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			751.72 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-5I-111125

Date Collected: 11/11/25 15:45
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 03:48	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 19:21	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:25	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:57	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 13:41	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			751.84 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 16:23	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			751.84 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:24	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-5D-111125

Date Collected: 11/11/25 14:15
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 04:02	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 19:24	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:28	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 11:59	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 14:15	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			994.31 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 16:23	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			994.31 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-6S-111325

Date Collected: 11/13/25 08:50
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 05:00	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 19:18	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:31	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 12:00	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 14:00	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-6S-111325
Lab Sample ID: 180-198516-11
Date Collected: 11/13/25 08:50
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.66 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 16:23	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1003.66 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-6I-111125
Lab Sample ID: 180-198516-12
Date Collected: 11/11/25 09:40
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 05:44	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 18:58	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:39	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 12:02	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 12:55	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1005.24 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 16:24	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1005.24 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749173	12/12/25 12:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/16/25 18:52	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-6D-111125
Lab Sample ID: 180-198516-13
Date Collected: 11/11/25 11:25
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 05:59	ERP	EET PIT
	Instrument ID: INTEGRION									

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-6D-111125

Date Collected: 11/11/25 11:25
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 19:13	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:41	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 12:04	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 13:14	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1000.85 mL	1.0 g	746142	11/20/25 09:10	AMS	EET SL
Total/NA	Analysis	9315		1			749244	12/14/25 16:24	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1000.85 mL	1.0 g	746143	11/20/25 09:12	AMS	EET SL
Total/NA	Analysis	9320		1			749175	12/12/25 12:22	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-7S-111225

Date Collected: 11/12/25 13:05
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 06:13	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506495	11/18/25 06:28	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734251	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			735735	11/25/25 18:40	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:44	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 12:06	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 13:04	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-7S-111225

Date Collected: 11/12/25 13:05
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.35 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749683	12/16/25 21:14	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1000.35 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:50	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-7D-111225

Date Collected: 11/12/25 11:40
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 06:42	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		10	1 mL	1 mL	506495	11/18/25 06:57	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734251	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			735735	11/25/25 18:43	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:47	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 12:08	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 12:12	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			993.52 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749683	12/16/25 21:15	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			993.52 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:51	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Haley & Aldrich Inc
Job ID: 180-198516-1
Project/Site: CCR Groundwater Monitoring FB Culley West
SDG: FB Culley West

Client Sample ID: WAP-8S-111125
Lab Sample ID: 180-198516-16
Date Collected: 11/11/25 15:55
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 07:11	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506495	11/18/25 07:26	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734251	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735026	11/24/25 18:38	T8CQ	ELLE
	Instrument ID: T73 - 18255									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:49	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 12:56	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 12:08	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1008.04 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749683	12/16/25 21:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1008.04 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:50	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-8I-111125
Lab Sample ID: 180-198516-17
Date Collected: 11/11/25 08:20
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 07:40	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734251	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735026	11/24/25 17:45	T8CQ	ELLE
	Instrument ID: T73 - 18255									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:52	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 12:58	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 13:55	BAB	EET PIT
	Instrument ID: OZ									

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-8I-111125

Lab Sample ID: 180-198516-17

Date Collected: 11/11/25 08:20
Date Received: 11/14/25 09:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
Total/NA	Prep	PrecSep-21			992.45 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749683	12/16/25 21:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			992.45 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:51	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-8D-111225

Lab Sample ID: 180-198516-18

Date Collected: 11/12/25 09:50
Date Received: 11/14/25 09:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506577	11/18/25 12:42	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734251	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735026	11/24/25 18:59	T8CQ	ELLE
	Instrument ID: T73 - 18255									
Total Recoverable	Prep	3005A			50 mL	50 mL	681411	11/20/25 14:00	TQ6W	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681609	11/21/25 14:23	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735831	12/01/25 10:38	RFN5	ELLE
Total/NA	Analysis	EPA 7470A		1			737343	12/01/25 18:31	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 12:40	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1003.34 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749683	12/16/25 21:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1003.34 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:50	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-9S-111325
Lab Sample ID: 180-198516-19
Date Collected: 11/13/25 13:13
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/18/25 07:55	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734251	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735026	11/24/25 17:48	T8CQ	ELLE
	Instrument ID: T73 - 18255									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:54	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 13:00	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 14:05	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			987.85 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749683	12/16/25 21:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			987.85 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:50	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-9I-111325
Lab Sample ID: 180-198516-20
Date Collected: 11/13/25 12:00
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506577	11/18/25 13:36	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734251	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735026	11/24/25 18:22	T8CQ	ELLE
	Instrument ID: T73 - 18255									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 15:57	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735831	12/01/25 10:38	RFN5	ELLE
Total/NA	Analysis	EPA 7470A		1			737343	12/01/25 18:43	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 12:03	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-9I-111325
Lab Sample ID: 180-198516-20
Date Collected: 11/13/25 12:00
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			989.04 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749683	12/16/25 21:16	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			989.04 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:50	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAP-9D-111325
Lab Sample ID: 180-198516-21
Date Collected: 11/13/25 10:10
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506577	11/18/25 13:50	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 19:27	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681399	11/21/25 05:00	MN7X	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681766	11/22/25 16:00	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735831	12/01/25 10:38	RFN5	ELLE
Total/NA	Analysis	EPA 7470A		1			737343	12/01/25 18:45	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 11:59	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1008.90 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749687	12/16/25 21:25	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1008.90 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:50	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: CCR-AP-7-111325
Lab Sample ID: 180-198516-22
Date Collected: 11/13/25 10:20
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506577	11/18/25 14:05	ERP	EET PIT
	Instrument ID: INTEGRION									

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: CCR-AP-7-111325

Date Collected: 11/13/25 10:20
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 19:30	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681411	11/20/25 14:00	TQ6W	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681609	11/21/25 14:36	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735831	12/01/25 10:38	RFN5	ELLE
Total/NA	Analysis	EPA 7470A		1			737343	12/01/25 18:46	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 11:35	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1005.51 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749687	12/16/25 21:25	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1005.51 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:50	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:29	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-1-111125

Date Collected: 11/11/25 11:30
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506577	11/18/25 14:19	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734116	11/17/25 02:55	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735018	11/24/25 19:40	T8CQ	ELLE
	Instrument ID: T75 - 27278									
Total Recoverable	Prep	3005A			50 mL	50 mL	681411	11/20/25 14:00	TQ6W	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681609	11/21/25 14:39	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735831	12/01/25 10:38	RFN5	ELLE
Total/NA	Analysis	EPA 7470A		1			737343	12/01/25 18:48	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 11:21	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			991.58 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749687	12/16/25 21:25	SWS	EET SL
	Instrument ID: GFPCBLUE									

Client Sample ID: DUP-1-111125
Lab Sample ID: 180-198516-23
Date Collected: 11/11/25 11:30
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			991.58 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749698	12/16/25 09:50	SWS	EET SL
	Instrument ID: GFPCORANGE									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:30	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-2-111225
Lab Sample ID: 180-198516-24
Date Collected: 11/12/25 00:00
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506577	11/18/25 14:34	ERP	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506577	11/18/25 15:17	ERP	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			50 mL	50 mL	734251	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			735026	11/24/25 18:44	T8CQ	ELLE
	Instrument ID: T73 - 18255									
Total Recoverable	Prep	3005A			50 mL	50 mL	681411	11/20/25 14:00	TQ6W	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681609	11/21/25 14:47	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 13:02	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506683	11/19/25 11:16	BAB	EET PIT
	Instrument ID: OZ									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1002.14 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749687	12/16/25 21:26	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1002.14 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749659	12/16/25 09:52	SWS	EET SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:30	CMM	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: FB-1-111325
Lab Sample ID: 180-198516-25
Date Collected: 11/13/25 08:00
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/17/25 23:55	ERP	EET PIT
	Instrument ID: INTEGRION									

Lab Chronicle

Client: Haley & Aldrich Inc
Job ID: 180-198516-1
Project/Site: CCR Groundwater Monitoring FB Culley West
SDG: FB Culley West

Client Sample ID: FB-1-111325
Lab Sample ID: 180-198516-25
Date Collected: 11/13/25 08:00
Matrix: Water
Date Received: 11/14/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	734251	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			735026	11/24/25 17:58	T8CQ	ELLE
	Instrument ID: T73 - 18255									
Total Recoverable	Prep	3005A			50 mL	50 mL	681411	11/20/25 14:00	TQ6W	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			681609	11/21/25 14:50	S4FJ	EET CLE
	Instrument ID: I16									
Total/NA	Prep	7470A			20 mL	20.0 mL	735826	11/30/25 23:00	UAMX	ELLE
Total/NA	Analysis	EPA 7470A		1			737162	12/01/25 13:04	IJ3I	ELLE
	Instrument ID: M16									
Total/NA	Analysis	EPA 9040C		1			506685	11/19/25 16:52	BAB	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506520	11/17/25 13:50	A1K	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	PrecSep-21			1006.32 mL	1.0 g	746138	11/20/25 08:59	AMS	EET SL
Total/NA	Analysis	9315		1			749687	12/16/25 21:26	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1006.32 mL	1.0 g	746139	11/20/25 09:02	AMS	EET SL
Total/NA	Analysis	9320		1			749659	12/16/25 09:51	SWS	EET SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Analysis	Ra226_Ra228		1			749775	12/17/25 16:30	CMM	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Analyst References:

Lab: EET CLE
- Batch Type: Prep
  - MN7X = Matigan Hammer
  - TQ6W = Bryan Perelka
- Batch Type: Analysis
  - S4FJ = Katherine Wise

Lab: EET PIT
- Batch Type: Analysis
  - A1K = Agnes Komlos
  - BAB = Brooke Batyi
  - ERP = Evan Papak

Lab: EET SL
- Batch Type: Prep
  - AMS = Ashley Stone
- Batch Type: Analysis
  - CMM = Chelsea Mazariegos
  - SWS = Seth Stubblefield

Lab: ELLE
- Batch Type: Prep
  - RFN5 = Aniyah Oxendine
  - UAMX = Annamaria Kuhns
  - UJL8 = James Mertz
- Batch Type: Analysis
  - IJ3I = Elizabeth Brittingham
  - T8CQ = Sera Bargo

Client Sample ID: WAP-1-111325

Date Collected: 11/13/25 11:40
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-1

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91		1.0	0.71	mg/L			11/18/25 00:39	1
Fluoride	0.18		0.10	0.026	mg/L			11/18/25 00:39	1
Sulfate	400		5.0	3.8	mg/L			11/18/25 00:53	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.11		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 18:35	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0055		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:01	1
Arsenic	0.011		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:01	1
Barium	0.64		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:01	1
Beryllium	0.0011		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:01	1
Cadmium	0.00076	J	0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:01	1
Calcium	220		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:01	1
Chromium	0.024		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:01	1
Cobalt	0.014		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:01	1
Lead	0.029		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:01	1
Lithium	0.019		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:01	1
Molybdenum	0.0026	J	0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:01	1
Selenium	0.0033	J	0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:01	1
Thallium	0.0014		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:01	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10	10	mg/L			11/17/25 13:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.2	HF	0.1	0.1	SU			11/19/25 12:26	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.110	U	0.284	0.285	1.00	0.531	pCi/L	11/20/25 09:10	12/14/25 13:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.4*		*30 - 110*	*11/20/25 09:10*	*12/14/25 13:31*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.527	U G	1.02	1.02	1.00	1.76	pCi/L	11/20/25 09:12	12/12/25 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.4*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Client Sample ID: WAP-1-111325
Lab Sample ID: 180-198516-1

Date Collected: 11/13/25 11:40
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*81.9*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.637	U	1.06	1.06	5.00	1.76	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-2RR-111225

Date Collected: 11/12/25 14:30
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-2

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38**		1.0	0.71	mg/L			11/18/25 01:08	1
Fluoride	**0.28**		0.10	0.026	mg/L			11/18/25 01:08	1
Sulfate	**110**		1.0	0.76	mg/L			11/18/25 01:08	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.1**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 18:38	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:09	1
Arsenic	**0.0013**	**J**	0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:09	1
Barium	**0.044**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:09	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:09	1
Cadmium	**0.00024**	**J**	0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:09	1
Calcium	**100**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:09	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:09	1
Cobalt	**0.00082**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:09	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:09	1
Lithium	**0.017**		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:09	1
Molybdenum	**0.061**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:09	1
Selenium	**0.0060**		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:09	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:09	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**530**		10	10	mg/L			11/17/25 13:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**6.9**	**HF**	0.1	0.1	SU			11/19/25 12:21	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.176	U	0.144	0.144	1.00	0.209	pCi/L	11/20/25 09:10	12/14/25 13:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.9*		*30 - 110*	*11/20/25 09:10*	*12/14/25 13:31*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.490	U	0.483	0.485	1.00	0.779	pCi/L	11/20/25 09:12	12/12/25 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.9*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Client Sample ID: WAP-2RR-111225

Date Collected: 11/12/25 14:30
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-2

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*80.7*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.666	U	0.504	0.506	5.00	0.779	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-3S-111225

Date Collected: 11/12/25 08:30
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-3

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65**		1.0	0.71	mg/L			11/18/25 01:22	1
Fluoride	**0.37**		0.10	0.026	mg/L			11/18/25 01:22	1
Sulfate	**330**		2.0	1.5	mg/L			11/18/25 19:59	2

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**4.5**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 18:45	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:12	1
Arsenic	**0.00084**	**J**	0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:12	1
Barium	**0.062**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:12	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:12	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:12	1
Calcium	**160**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:12	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:12	1
Cobalt	**0.00094**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:12	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:12	1
Lithium	**0.13**		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:12	1
Molybdenum	**0.39**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:12	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:12	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:12	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**820**		10	10	mg/L			11/17/25 13:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.8**	**HF**	0.1	0.1	SU			11/19/25 14:10	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.481**		0.193	0.198	1.00	0.192	pCi/L	11/20/25 09:10	12/14/25 13:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.4*		*30 - 110*	*11/20/25 09:10*	*12/14/25 13:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.607	U	0.459	0.462	1.00	0.702	pCi/L	11/20/25 09:12	12/12/25 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.4*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Client Sample ID: WAP-3S-111225

Date Collected: 11/12/25 08:30
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-3

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*79.3*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.09**		0.498	0.503	5.00	0.702	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-3D-111225

Date Collected: 11/12/25 09:50
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-4

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71**		1.0	0.71	mg/L			11/18/25 01:37	1
Fluoride	**0.31**		0.10	0.026	mg/L			11/18/25 01:37	1
Sulfate	**450**		5.0	3.8	mg/L			11/18/25 01:51	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**4.1**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 18:41	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:15	1
Arsenic	ND		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:15	1
Barium	**0.025**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:15	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:15	1
Cadmium	**0.00056**	**J**	0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:15	1
Calcium	**190**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:15	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:15	1
Cobalt	**0.0015**		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:15	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:15	1
Lithium	**0.11**		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:15	1
Molybdenum	**0.27**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:15	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:15	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:15	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1000**		10	10	mg/L			11/17/25 13:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.6**	**HF**	0.1	0.1	SU			11/19/25 13:23	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.279**		0.172	0.174	1.00	0.224	pCi/L	11/20/25 09:10	12/14/25 13:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*68.9*		*30 - 110*	*11/20/25 09:10*	*12/14/25 13:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.450	U	0.477	0.479	1.00	0.775	pCi/L	11/20/25 09:12	12/12/25 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*68.9*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Client Sample ID: WAP-3D-111225
Lab Sample ID: 180-198516-4

Date Collected: 11/12/25 09:50
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*79.6*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.729	U	0.507	0.510	5.00	0.775	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-4S-111125

Date Collected: 11/11/25 09:35
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-5

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82**		1.0	0.71	mg/L			11/18/25 02:06	1
Fluoride	**0.22**		0.10	0.026	mg/L			11/18/25 02:06	1
Sulfate	**330**		5.0	3.8	mg/L			11/18/25 02:50	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**11**		0.25	0.060	mg/L		11/17/25 02:55	11/24/25 20:53	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:17	1
Arsenic	**0.0076**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:17	1
Barium	**0.048**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:17	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:17	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:17	1
Calcium	**240**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:17	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:17	1
Cobalt	**0.0013**		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:17	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:17	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:17	1
Molybdenum	**0.51**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:17	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:17	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:17	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1000**		10	10	mg/L			11/17/25 13:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.5**	**HF**	0.1	0.1	SU			11/19/25 13:50	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0933	U	0.156	0.156	1.00	0.273	pCi/L	11/20/25 09:10	12/14/25 13:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*60.8*		*30 - 110*	*11/20/25 09:10*	*12/14/25 13:32*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.667	U	0.546	0.549	1.00	0.848	pCi/L	11/20/25 09:12	12/12/25 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*60.8*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Client Sample ID: WAP-4S-111125
Lab Sample ID: 180-198516-5

Date Collected: 11/11/25 09:35
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*78.9*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:17*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.761	U	0.568	0.571	5.00	0.848	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-4I-111125

Date Collected: 11/11/25 11:30
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-6

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21**		1.0	0.71	mg/L			11/18/25 04:17	1
Fluoride	**0.15**		0.10	0.026	mg/L			11/18/25 04:17	1
Sulfate	**42**		1.0	0.76	mg/L			11/18/25 04:17	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.075**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 18:08	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 14:48	1
Arsenic	**0.0061**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 14:48	1
Barium	**0.17**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 14:48	1
Beryllium	**0.00028**	**J**	0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 14:48	1
Cadmium	**0.00021**	**J**	0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 14:48	1
Calcium	**42**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 14:48	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 14:48	1
Cobalt	**0.00059**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 14:48	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 14:48	1
Lithium	**0.0034**	**J**	0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 14:48	1
Molybdenum	**0.0030**	**J**	0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 14:48	1
Selenium	**0.0011**	**J**	0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 14:48	1
Thallium	**0.00060**	**J**	0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 14:48	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**200**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.4**	**HF**	0.1	0.1	SU			11/19/25 11:45	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.206**		0.140	0.141	1.00	0.183	pCi/L	11/20/25 09:10	12/14/25 13:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.1*		*30 - 110*	*11/20/25 09:10*	*12/14/25 13:32*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.293	U	0.292	0.294	1.00	0.653	pCi/L	11/20/25 09:12	12/12/25 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.1*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Client Sample ID: WAP-4I-111125
Lab Sample ID: 180-198516-6

Date Collected: 11/11/25 11:30
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*78.9*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0873	U	0.324	0.326	5.00	0.653	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-4D-111125

Date Collected: 11/11/25 13:40
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-7

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22**		1.0	0.71	mg/L			11/18/25 03:04	1
Fluoride	**0.14**		0.10	0.026	mg/L			11/18/25 03:04	1
Sulfate	**25**		1.0	0.76	mg/L			11/18/25 03:04	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.058**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 18:51	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:20	1
Arsenic	**0.0087**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:20	1
Barium	**0.28**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:20	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:20	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:20	1
Calcium	**47**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:20	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:20	1
Cobalt	**0.00015**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:20	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:20	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:20	1
Molybdenum	**0.0063**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:20	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:20	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:20	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**220**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.6**	**HF**	0.1	0.1	SU			11/19/25 12:17	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.331**		0.186	0.188	1.00	0.237	pCi/L	11/20/25 09:10	12/14/25 16:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*65.3*		*30 - 110*	*11/20/25 09:10*	*12/14/25 16:22*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.194	U	0.446	0.447	1.00	0.788	pCi/L	11/20/25 09:12	12/12/25 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*65.3*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Client Sample ID: WAP-4D-111125
Lab Sample ID: 180-198516-7

Date Collected: 11/11/25 13:40
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*73.6*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.524	U	0.483	0.485	5.00	0.788	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-5S-111125

Date Collected: 11/11/25 16:35
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-8

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55**		1.0	0.71	mg/L			11/18/25 03:19	1
Fluoride	**0.10**		0.10	0.026	mg/L			11/18/25 03:19	1
Sulfate	**520**		5.0	3.8	mg/L			11/18/25 03:33	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**5.8**		0.25	0.060	mg/L		11/17/25 02:55	11/24/25 20:56	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:23	1
Arsenic	**0.0021**	**J**	0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:23	1
Barium	**0.047**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:23	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:23	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:23	1
Calcium	**230**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:23	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:23	1
Cobalt	**0.0072**		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:23	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:23	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:23	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:23	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:23	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:23	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1200**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**6.9**	**HF**	0.1	0.1	SU			11/19/25 12:50	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.341**		0.215	0.217	1.00	0.272	pCi/L	11/20/25 09:10	12/14/25 16:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*62.2*		*30 - 110*	*11/20/25 09:10*	*12/14/25 16:22*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.201	U	0.548	0.548	1.00	0.981	pCi/L	11/20/25 09:12	12/12/25 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*62.2*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Client Sample ID: WAP-5S-111125
Lab Sample ID: 180-198516-8

Date Collected: 11/11/25 16:35
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*77.4*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.542	U	0.589	0.589	5.00	0.981	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-5I-111125

Date Collected: 11/11/25 15:45
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-9

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**		1.0	0.71	mg/L			11/18/25 03:48	1
Fluoride	**0.15**		0.10	0.026	mg/L			11/18/25 03:48	1
Sulfate	**45**		1.0	0.76	mg/L			11/18/25 03:48	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.074**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 19:21	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:25	1
Arsenic	**0.011**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:25	1
Barium	**0.11**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:25	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:25	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:25	1
Calcium	**42**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:25	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:25	1
Cobalt	**0.00043**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:25	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:25	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:25	1
Molybdenum	**0.0018**	**J**	0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:25	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:25	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:25	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**220**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.5**	**HF**	0.1	0.1	SU			11/19/25 13:41	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.194	U	0.171	0.172	1.00	0.258	pCi/L	11/20/25 09:10	12/14/25 16:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.0*		*30 - 110*	*11/20/25 09:10*	*12/14/25 16:23*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0813	U	0.442	0.442	1.00	0.808	pCi/L	11/20/25 09:12	12/12/25 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.0*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:24*	*1*

Client Sample ID: WAP-5I-111125
Lab Sample ID: 180-198516-9

Date Collected: 11/11/25 15:45
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*81.1*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:24*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.275	U	0.474	0.474	5.00	0.808	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-5D-111125

Date Collected: 11/11/25 14:15
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-10

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**		1.0	0.71	mg/L			11/18/25 04:02	1
Fluoride	**0.13**		0.10	0.026	mg/L			11/18/25 04:02	1
Sulfate	**37**		1.0	0.76	mg/L			11/18/25 04:02	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.038**	**J**	0.050	0.012	mg/L		11/17/25 02:55	11/24/25 19:24	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:28	1
Arsenic	**0.010**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:28	1
Barium	**0.22**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:28	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:28	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:28	1
Calcium	**51**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:28	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:28	1
Cobalt	ND		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:28	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:28	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:28	1
Molybdenum	**0.0040**	**J**	0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:28	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:28	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:28	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**230**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.5**	**HF**	0.1	0.1	SU			11/19/25 14:15	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.913**		0.254	0.267	1.00	0.209	pCi/L	11/20/25 09:10	12/14/25 16:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.9*		*30 - 110*	*11/20/25 09:10*	*12/14/25 16:23*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0667	U	0.329	0.329	1.00	0.605	pCi/L	11/20/25 09:12	12/12/25 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.9*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Client Sample ID: WAP-5D-111125

Date Collected: 11/11/25 14:15
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-10

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	83.0		30 - 110	11/20/25 09:12	12/12/25 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.980		0.416	0.424	5.00	0.605	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-6S-111325

Date Collected: 11/13/25 08:50
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-11

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31**		1.0	0.71	mg/L			11/18/25 05:00	1
Fluoride	**0.38**		0.10	0.026	mg/L			11/18/25 05:00	1
Sulfate	**120**		1.0	0.76	mg/L			11/18/25 05:00	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.0**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 19:18	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:31	1
Arsenic	**0.0012**	**J**	0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:31	1
Barium	**0.050**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:31	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:31	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:31	1
Calcium	**100**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:31	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:31	1
Cobalt	**0.00095**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:31	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:31	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:31	1
Molybdenum	**0.13**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:31	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:31	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:31	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**510**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.4**	**HF**	0.1	0.1	SU			11/19/25 14:00	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.142	U	0.146	0.146	1.00	0.228	pCi/L	11/20/25 09:10	12/14/25 16:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*64.7*		*30 - 110*	*11/20/25 09:10*	*12/14/25 16:23*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.829**		0.507	0.513	1.00	0.735	pCi/L	11/20/25 09:12	12/12/25 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*64.7*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Client Sample ID: WAP-6S-111325

Date Collected: 11/13/25 08:50
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-11

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	80.7		30 - 110	11/20/25 09:12	12/12/25 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.971		0.528	0.533	5.00	0.735	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-6I-111125

Date Collected: 11/11/25 09:40
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-12

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19**		1.0	0.71	mg/L			11/18/25 05:44	1
Fluoride	**0.14**		0.10	0.026	mg/L			11/18/25 05:44	1
Sulfate	**36**		1.0	0.76	mg/L			11/18/25 05:44	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.075**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 18:58	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:39	1
Arsenic	**0.0053**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:39	1
Barium	**0.18**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:39	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:39	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:39	1
Calcium	**40**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:39	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:39	1
Cobalt	**0.00024**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:39	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:39	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:39	1
Molybdenum	**0.0047**	**J**	0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:39	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:39	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:39	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**210**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.6**	**HF**	0.1	0.1	SU			11/19/25 12:55	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.45**		0.306	0.333	1.00	0.197	pCi/L	11/20/25 09:10	12/14/25 16:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.0*		*30 - 110*	*11/20/25 09:10*	*12/14/25 16:24*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.581	U	0.429	0.432	1.00	0.652	pCi/L	11/20/25 09:12	12/12/25 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.0*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Client Sample ID: WAP-6I-111125

Date Collected: 11/11/25 09:40
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-12

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*80.4*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:16*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**2.03**		0.527	0.545	5.00	0.652	pCi/L		12/16/25 18:52	1

Client Sample ID: WAP-6D-111125

Date Collected: 11/11/25 11:25
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-13

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21**		1.0	0.71	mg/L			11/18/25 05:59	1
Fluoride	**0.15**		0.10	0.026	mg/L			11/18/25 05:59	1
Sulfate	**39**		1.0	0.76	mg/L			11/18/25 05:59	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.047**	**J**	0.050	0.012	mg/L		11/17/25 02:55	11/24/25 19:13	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:41	1
Arsenic	**0.0058**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:41	1
Barium	**0.18**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:41	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:41	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:41	1
Calcium	**42**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:41	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:41	1
Cobalt	ND		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:41	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:41	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:41	1
Molybdenum	**0.0028**	**J**	0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:41	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:41	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:41	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**210**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.6**	**HF**	0.1	0.1	SU			11/19/25 13:14	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.809**		0.228	0.240	1.00	0.197	pCi/L	11/20/25 09:10	12/14/25 16:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*11/20/25 09:10*	*12/14/25 16:24*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.431	U	0.370	0.372	1.00	0.581	pCi/L	11/20/25 09:12	12/12/25 12:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*11/20/25 09:12*	*12/12/25 12:22*	*1*

Client Sample ID: WAP-6D-111125

Date Collected: 11/11/25 11:25
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-13

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	84.1		30 - 110	11/20/25 09:12	12/12/25 12:22	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.24		0.435	0.443	5.00	0.581	pCi/L		12/17/25 16:29	1

Client Sample ID: WAP-7S-111225

Date Collected: 11/12/25 13:05
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-14

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80		1.0	0.71	mg/L			11/18/25 06:13	1
Fluoride	0.11		0.10	0.026	mg/L			11/18/25 06:13	1
Sulfate	480		5.0	3.8	mg/L			11/18/25 06:28	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		0.25	0.060	mg/L		11/24/25 02:46	11/25/25 18:40	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	J	0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:44	1
Arsenic	0.0073		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:44	1
Barium	0.050		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:44	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:44	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:44	1
Calcium	210		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:44	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:44	1
Cobalt	0.000087	J	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:44	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:44	1
Lithium	0.22		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:44	1
Molybdenum	0.40		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:44	1
Selenium	0.0096		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:44	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:44	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	950		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	9.9	HF	0.1	0.1	SU			11/19/25 13:04	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.458		0.233	0.237	1.00	0.277	pCi/L	11/20/25 08:59	12/16/25 21:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:14*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.618	U	0.478	0.482	1.00	0.745	pCi/L	11/20/25 09:02	12/16/25 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Client Sample ID: WAP-7S-111225

Date Collected: 11/12/25 13:05
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-14

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	78.5		30 - 110	11/20/25 09:02	12/16/25 09:50	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.532	0.537	5.00	0.745	pCi/L		12/17/25 16:29	1

Client Sample ID: WAP-7D-111225

Date Collected: 11/12/25 11:40
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-15

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		1.0	0.71	mg/L			11/18/25 06:42	1
Fluoride	**0.35**		0.10	0.026	mg/L			11/18/25 06:42	1
Sulfate	**910**		10	7.6	mg/L			11/18/25 06:57	10

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**8.6**		0.25	0.060	mg/L		11/24/25 02:46	11/25/25 18:43	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:47	1
Arsenic	**0.0012**	**J**	0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:47	1
Barium	**0.027**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:47	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:47	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:47	1
Calcium	**320**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:47	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:47	1
Cobalt	**0.0036**		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:47	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:47	1
Lithium	**0.052**		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:47	1
Molybdenum	**0.17**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:47	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:47	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:47	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1700**		20	20	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.3**	**HF**	0.1	0.1	SU			11/19/25 12:12	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.366**		0.223	0.226	1.00	0.294	pCi/L	11/20/25 08:59	12/16/25 21:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:15*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0357	U	0.399	0.399	1.00	0.726	pCi/L	11/20/25 09:02	12/16/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:51*	*1*

Client Sample ID: WAP-7D-111225
Lab Sample ID: 180-198516-15

Date Collected: 11/12/25 11:40
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*80.7*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:51*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.402	U	0.457	0.459	5.00	0.726	pCi/L		12/17/25 16:29	1

Client Sample ID: WAP-8S-111125

Date Collected: 11/11/25 15:55
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-16

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89**		1.0	0.71	mg/L			11/18/25 07:11	1
Fluoride	**0.17**		0.10	0.026	mg/L			11/18/25 07:11	1
Sulfate	**410**		5.0	3.8	mg/L			11/18/25 07:26	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**3.2**		0.050	0.012	mg/L		11/24/25 02:46	11/24/25 18:38	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:49	1
Arsenic	**0.018**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:49	1
Barium	**0.11**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:49	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:49	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:49	1
Calcium	**170**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:49	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:49	1
Cobalt	**0.0023**		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:49	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:49	1
Lithium	**0.026**		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:49	1
Molybdenum	**0.28**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:49	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:49	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:49	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**920**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.4**	**HF**	0.1	0.1	SU			11/19/25 12:08	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0549	U	0.150	0.150	1.00	0.286	pCi/L	11/20/25 08:59	12/16/25 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.7*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:16*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.313	U	0.460	0.461	1.00	0.776	pCi/L	11/20/25 09:02	12/16/25 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.7*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Client Sample ID: WAP-8S-111125

Date Collected: 11/11/25 15:55
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-16

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.1		30 - 110	11/20/25 09:02	12/16/25 09:50	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.368	U	0.484	0.485	5.00	0.776	pCi/L		12/17/25 16:29	1

Client Sample ID: WAP-8I-111125

Date Collected: 11/11/25 08:20
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-17

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21**		1.0	0.71	mg/L			11/18/25 07:40	1
Fluoride	**0.18**		0.10	0.026	mg/L			11/18/25 07:40	1
Sulfate	**45**		1.0	0.76	mg/L			11/18/25 07:40	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.087**		0.050	0.012	mg/L		11/24/25 02:46	11/24/25 17:45	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:52	1
Arsenic	**0.0035**	**J**	0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:52	1
Barium	**0.055**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:52	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:52	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:52	1
Calcium	**42**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:52	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:52	1
Cobalt	**0.00039**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:52	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:52	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:52	1
Molybdenum	**0.020**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:52	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:52	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:52	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**240**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.6**	**HF**	0.1	0.1	SU			11/19/25 13:55	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0152	U	0.128	0.128	1.00	0.267	pCi/L	11/20/25 08:59	12/16/25 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:16*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.550	U	0.456	0.459	1.00	0.714	pCi/L	11/20/25 09:02	12/16/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:51*	*1*

Client Sample ID: WAP-8I-111125
Lab Sample ID: 180-198516-17

Date Collected: 11/11/25 08:20
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*82.2*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:51*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.565	U	0.474	0.477	5.00	0.714	pCi/L		12/17/25 16:29	1

Client Sample ID: WAP-8D-111225

Date Collected: 11/12/25 09:50
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-18

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		1.0	0.71	mg/L			11/18/25 12:42	1
Fluoride	0.17		0.10	0.026	mg/L			11/18/25 12:42	1
Sulfate	44		1.0	0.76	mg/L			11/18/25 12:42	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.075		0.050	0.012	mg/L		11/24/25 02:46	11/24/25 18:59	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/20/25 14:00	11/21/25 14:23	1
Arsenic	0.0036	J	0.0050	0.00075	mg/L		11/20/25 14:00	11/21/25 14:23	1
Barium	0.073		0.0050	0.00077	mg/L		11/20/25 14:00	11/21/25 14:23	1
Beryllium	ND		0.0010	0.00027	mg/L		11/20/25 14:00	11/21/25 14:23	1
Cadmium	ND		0.0010	0.000077	mg/L		11/20/25 14:00	11/21/25 14:23	1
Calcium	40		1.0	0.25	mg/L		11/20/25 14:00	11/21/25 14:23	1
Chromium	ND		0.0050	0.0012	mg/L		11/20/25 14:00	11/21/25 14:23	1
Cobalt	0.00011	J B	0.0010	0.000086	mg/L		11/20/25 14:00	11/21/25 14:23	1
Lead	ND		0.0010	0.00045	mg/L		11/20/25 14:00	11/21/25 14:23	1
Lithium	ND		0.0080	0.0034	mg/L		11/20/25 14:00	11/21/25 14:23	1
Molybdenum	0.0022	J	0.0050	0.0011	mg/L		11/20/25 14:00	11/21/25 14:23	1
Selenium	ND		0.0050	0.00089	mg/L		11/20/25 14:00	11/21/25 14:23	1
Thallium	ND		0.0010	0.00051	mg/L		11/20/25 14:00	11/21/25 14:23	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		12/01/25 10:38	12/01/25 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	210		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.4	HF	0.1	0.1	SU			11/19/25 12:40	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.592		0.275	0.280	1.00	0.309	pCi/L	11/20/25 08:59	12/16/25 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.5*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:16*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.01		0.533	0.541	1.00	0.761	pCi/L	11/20/25 09:02	12/16/25 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.5*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-8D-111225
Date Collected: 11/12/25 09:50
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-18
Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.1		30 - 110	11/20/25 09:02	12/16/25 09:50	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.60		0.600	0.609	5.00	0.761	pCi/L		12/17/25 16:29	1

Client Sample ID: WAP-9S-111325

Date Collected: 11/13/25 13:13
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-19

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21**		1.0	0.71	mg/L			11/18/25 07:55	1
Fluoride	**0.46**		0.10	0.026	mg/L			11/18/25 07:55	1
Sulfate	**38**		1.0	0.76	mg/L			11/18/25 07:55	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**1.2**		0.050	0.012	mg/L		11/24/25 02:46	11/24/25 17:48	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:54	1
Arsenic	**0.0011**	**J**	0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:54	1
Barium	**0.11**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:54	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:54	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:54	1
Calcium	**73**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:54	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:54	1
Cobalt	**0.00049**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:54	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:54	1
Lithium	**0.0059**	**J**	0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:54	1
Molybdenum	**0.099**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:54	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:54	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:54	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**350**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.8**	**HF**	0.1	0.1	SU			11/19/25 14:05	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.139	U	0.190	0.190	1.00	0.320	pCi/L	11/20/25 08:59	12/16/25 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.3*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:16*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.01**		0.529	0.537	1.00	0.749	pCi/L	11/20/25 09:02	12/16/25 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.3*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Client: Haley & Aldrich Inc
Project/Site: CCR Groundwater Monitoring FB Culley West

Job ID: 180-198516-1
SDG: FB Culley West

Client Sample ID: WAP-9S-111325
Date Collected: 11/13/25 13:13
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-19
Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	80.4		30 - 110	11/20/25 09:02	12/16/25 09:50	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.14		0.562	0.570	5.00	0.749	pCi/L		12/17/25 16:29	1

Client Sample ID: WAP-9I-111325

Date Collected: 11/13/25 12:00
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-20

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22**		1.0	0.71	mg/L			11/18/25 13:36	1
Fluoride	**0.16**		0.10	0.026	mg/L			11/18/25 13:36	1
Sulfate	**39**		1.0	0.76	mg/L			11/18/25 13:36	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.055**		0.050	0.012	mg/L		11/24/25 02:46	11/24/25 18:22	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 15:57	1
Arsenic	**0.0058**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 15:57	1
Barium	**0.19**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 15:57	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 15:57	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 15:57	1
Calcium	**42**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 15:57	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 15:57	1
Cobalt	ND		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 15:57	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 15:57	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 15:57	1
Molybdenum	**0.0029**	**J**	0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 15:57	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 15:57	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 15:57	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		12/01/25 10:38	12/01/25 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**220**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.6**	**HF**	0.1	0.1	SU			11/19/25 12:03	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.207	U	0.180	0.181	1.00	0.261	pCi/L	11/20/25 08:59	12/16/25 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:16*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.13**		0.539	0.549	1.00	0.747	pCi/L	11/20/25 09:02	12/16/25 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Client Sample ID: WAP-9I-111325

Date Collected: 11/13/25 12:00
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-20

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*78.9*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.33**		0.568	0.578	5.00	0.747	pCi/L		12/17/25 16:29	1

Client Sample ID: WAP-9D-111325

Date Collected: 11/13/25 10:10
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-21

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19**		1.0	0.71	mg/L			11/18/25 13:50	1
Fluoride	**0.15**		0.10	0.026	mg/L			11/18/25 13:50	1
Sulfate	**35**		1.0	0.76	mg/L			11/18/25 13:50	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.069**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 19:27	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 16:00	1
Arsenic	**0.0063**		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 16:00	1
Barium	**0.14**		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 16:00	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 16:00	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 16:00	1
Calcium	**40**		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 16:00	1
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 16:00	1
Cobalt	**0.00025**	**J**	0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 16:00	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 16:00	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 16:00	1
Molybdenum	**0.0063**		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 16:00	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 16:00	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 16:00	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		12/01/25 10:38	12/01/25 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**220**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.6**	**HF**	0.1	0.1	SU			11/19/25 11:59	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.240	U	0.202	0.204	1.00	0.300	pCi/L	11/20/25 08:59	12/16/25 21:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.1*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:25*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.609	U	0.434	0.438	1.00	0.657	pCi/L	11/20/25 09:02	12/16/25 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.1*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Client Sample ID: WAP-9D-111325
Lab Sample ID: 180-198516-21

Date Collected: 11/13/25 10:10
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	80.0		30 - 110	11/20/25 09:02	12/16/25 09:50	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.850		0.479	0.483	5.00	0.657	pCi/L		12/17/25 16:29	1

Client Sample ID: CCR-AP-7-111325

Date Collected: 11/13/25 10:20
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-22

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		1.0	0.71	mg/L			11/18/25 14:05	1
Fluoride	0.29		0.10	0.026	mg/L			11/18/25 14:05	1
Sulfate	93		1.0	0.76	mg/L			11/18/25 14:05	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.016	J	0.050	0.012	mg/L		11/17/25 02:55	11/24/25 19:30	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/20/25 14:00	11/21/25 14:36	1
Arsenic	0.0048	J	0.0050	0.00075	mg/L		11/20/25 14:00	11/21/25 14:36	1
Barium	0.13		0.0050	0.00077	mg/L		11/20/25 14:00	11/21/25 14:36	1
Beryllium	ND		0.0010	0.00027	mg/L		11/20/25 14:00	11/21/25 14:36	1
Cadmium	0.00016	J	0.0010	0.000077	mg/L		11/20/25 14:00	11/21/25 14:36	1
Calcium	130		1.0	0.25	mg/L		11/20/25 14:00	11/21/25 14:36	1
Chromium	ND		0.0050	0.0012	mg/L		11/20/25 14:00	11/21/25 14:36	1
Cobalt	0.00053	J B	0.0010	0.000086	mg/L		11/20/25 14:00	11/21/25 14:36	1
Lead	0.00054	J	0.0010	0.00045	mg/L		11/20/25 14:00	11/21/25 14:36	1
Lithium	0.0093		0.0080	0.0034	mg/L		11/20/25 14:00	11/21/25 14:36	1
Molybdenum	0.0015	J	0.0050	0.0011	mg/L		11/20/25 14:00	11/21/25 14:36	1
Selenium	0.0012	J	0.0050	0.00089	mg/L		11/20/25 14:00	11/21/25 14:36	1
Thallium	0.00052	J	0.0010	0.00051	mg/L		11/20/25 14:00	11/21/25 14:36	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		12/01/25 10:38	12/01/25 18:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	620		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.2	HF	0.1	0.1	SU			11/19/25 11:35	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.132	U	0.178	0.178	1.00	0.298	pCi/L	11/20/25 08:59	12/16/25 21:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:25*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.796		0.499	0.504	1.00	0.741	pCi/L	11/20/25 09:02	12/16/25 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Client Sample ID: CCR-AP-7-111325
Lab Sample ID: 180-198516-22

Date Collected: 11/13/25 10:20
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*74.4*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.928**		0.530	0.535	5.00	0.741	pCi/L		12/17/25 16:29	1

Client Sample ID: DUP-1-111125

Date Collected: 11/11/25 11:30
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-23

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21**		1.0	0.71	mg/L			11/18/25 14:19	1
Fluoride	**0.15**		0.10	0.026	mg/L			11/18/25 14:19	1
Sulfate	**40**		1.0	0.76	mg/L			11/18/25 14:19	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.055**		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 19:40	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/20/25 14:00	11/21/25 14:39	1
Arsenic	**0.0055**		0.0050	0.00075	mg/L		11/20/25 14:00	11/21/25 14:39	1
Barium	**0.18**		0.0050	0.00077	mg/L		11/20/25 14:00	11/21/25 14:39	1
Beryllium	ND		0.0010	0.00027	mg/L		11/20/25 14:00	11/21/25 14:39	1
Cadmium	ND		0.0010	0.000077	mg/L		11/20/25 14:00	11/21/25 14:39	1
Calcium	**42**		1.0	0.25	mg/L		11/20/25 14:00	11/21/25 14:39	1
Chromium	ND		0.0050	0.0012	mg/L		11/20/25 14:00	11/21/25 14:39	1
Cobalt	**0.00013**	**J B**	0.0010	0.000086	mg/L		11/20/25 14:00	11/21/25 14:39	1
Lead	ND		0.0010	0.00045	mg/L		11/20/25 14:00	11/21/25 14:39	1
Lithium	ND		0.0080	0.0034	mg/L		11/20/25 14:00	11/21/25 14:39	1
Molybdenum	**0.0026**	**J**	0.0050	0.0011	mg/L		11/20/25 14:00	11/21/25 14:39	1
Selenium	ND		0.0050	0.00089	mg/L		11/20/25 14:00	11/21/25 14:39	1
Thallium	ND		0.0010	0.00051	mg/L		11/20/25 14:00	11/21/25 14:39	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		12/01/25 10:38	12/01/25 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**220**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.6**	**HF**	0.1	0.1	SU			11/19/25 11:21	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.248	U	0.239	0.240	1.00	0.375	pCi/L	11/20/25 08:59	12/16/25 21:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.5*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:25*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.858**		0.514	0.520	1.00	0.757	pCi/L	11/20/25 09:02	12/16/25 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.5*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:50*	*1*

Client Sample ID: DUP-1-111125

Date Collected: 11/11/25 11:30
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-23

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	78.5		30 - 110	11/20/25 09:02	12/16/25 09:50	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.11		0.567	0.573	5.00	0.757	pCi/L		12/17/25 16:30	1

Client Sample ID: DUP-2-111225

Date Collected: 11/12/25 00:00
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-24

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72**		1.0	0.71	mg/L			11/18/25 14:34	1
Fluoride	**0.33**		0.10	0.026	mg/L			11/18/25 14:34	1
Sulfate	**460**		5.0	3.8	mg/L			11/18/25 15:17	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**4.6**		0.25	0.060	mg/L		11/24/25 02:46	11/24/25 18:44	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/20/25 14:00	11/21/25 14:47	1
Arsenic	ND		0.0050	0.00075	mg/L		11/20/25 14:00	11/21/25 14:47	1
Barium	**0.024**		0.0050	0.00077	mg/L		11/20/25 14:00	11/21/25 14:47	1
Beryllium	ND		0.0010	0.00027	mg/L		11/20/25 14:00	11/21/25 14:47	1
Cadmium	**0.00050**	**J**	0.0010	0.000077	mg/L		11/20/25 14:00	11/21/25 14:47	1
Calcium	**190**		1.0	0.25	mg/L		11/20/25 14:00	11/21/25 14:47	1
Chromium	ND		0.0050	0.0012	mg/L		11/20/25 14:00	11/21/25 14:47	1
Cobalt	**0.0014**	**B**	0.0010	0.000086	mg/L		11/20/25 14:00	11/21/25 14:47	1
Lead	ND		0.0010	0.00045	mg/L		11/20/25 14:00	11/21/25 14:47	1
Lithium	**0.10**		0.0080	0.0034	mg/L		11/20/25 14:00	11/21/25 14:47	1
Molybdenum	**0.26**		0.0050	0.0011	mg/L		11/20/25 14:00	11/21/25 14:47	1
Selenium	ND		0.0050	0.00089	mg/L		11/20/25 14:00	11/21/25 14:47	1
Thallium	ND		0.0010	0.00051	mg/L		11/20/25 14:00	11/21/25 14:47	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1000**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**7.6**	**HF**	0.1	0.1	SU			11/19/25 11:16	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.268	U	0.233	0.235	1.00	0.357	pCi/L	11/20/25 08:59	12/16/25 21:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.4*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:26*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.791**		0.472	0.477	1.00	0.690	pCi/L	11/20/25 09:02	12/16/25 09:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.4*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:52*	*1*

Client Sample ID: DUP-2-111225

Date Collected: 11/12/25 00:00
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-24

Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	*78.1*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:52*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.06**		0.526	0.532	5.00	0.690	pCi/L		12/17/25 16:30	1

Client Sample ID: FB-1-111325

Date Collected: 11/13/25 08:00
Date Received: 11/14/25 09:00

Lab Sample ID: 180-198516-25

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/17/25 23:55	1
Fluoride	ND		0.10	0.026	mg/L			11/17/25 23:55	1
Sulfate	ND		1.0	0.76	mg/L			11/17/25 23:55	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.024**	**J**	0.050	0.012	mg/L		11/24/25 02:46	11/24/25 17:58	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/20/25 14:00	11/21/25 14:50	1
Arsenic	ND		0.0050	0.00075	mg/L		11/20/25 14:00	11/21/25 14:50	1
Barium	**0.0034**	**J**	0.0050	0.00077	mg/L		11/20/25 14:00	11/21/25 14:50	1
Beryllium	ND		0.0010	0.00027	mg/L		11/20/25 14:00	11/21/25 14:50	1
Cadmium	ND		0.0010	0.000077	mg/L		11/20/25 14:00	11/21/25 14:50	1
Calcium	**0.68**	**J**	1.0	0.25	mg/L		11/20/25 14:00	11/21/25 14:50	1
Chromium	ND		0.0050	0.0012	mg/L		11/20/25 14:00	11/21/25 14:50	1
Cobalt	ND		0.0010	0.000086	mg/L		11/20/25 14:00	11/21/25 14:50	1
Lead	ND		0.0010	0.00045	mg/L		11/20/25 14:00	11/21/25 14:50	1
Lithium	ND		0.0080	0.0034	mg/L		11/20/25 14:00	11/21/25 14:50	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/20/25 14:00	11/21/25 14:50	1
Selenium	ND		0.0050	0.00089	mg/L		11/20/25 14:00	11/21/25 14:50	1
Thallium	ND		0.0010	0.00051	mg/L		11/20/25 14:00	11/21/25 14:50	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**13**		10	10	mg/L			11/17/25 13:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	**9.4**	**HF**	0.1	0.1	SU			11/19/25 16:52	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.176	U	0.208	0.208	1.00	0.340	pCi/L	11/20/25 08:59	12/16/25 21:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.0*		*30 - 110*	*11/20/25 08:59*	*12/16/25 21:26*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.379	U	0.449	0.450	1.00	0.740	pCi/L	11/20/25 09:02	12/16/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.0*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:51*	*1*

Client Sample ID: FB-1-111325
Lab Sample ID: 180-198516-25

Date Collected: 11/13/25 08:00
Matrix: Water
Date Received: 11/14/25 09:00

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*72.9*		*30 - 110*	*11/20/25 09:02*	*12/16/25 09:51*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.555	U	0.495	0.496	5.00	0.740	pCi/L		12/17/25 16:30	1

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-506495/38
Matrix: Water
Analysis Batch: 506495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/17/25 22:57	1
Fluoride	ND		0.10	0.026	mg/L			11/17/25 22:57	1
Sulfate	ND		1.0	0.76	mg/L			11/17/25 22:57	1

Lab Sample ID: LCS 180-506495/39
Matrix: Water
Analysis Batch: 506495

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.0		mg/L		98	80 - 120
Fluoride	2.50	2.63		mg/L		105	80 - 120
Sulfate	50.0	50.4		mg/L		101	80 - 120

Lab Sample ID: 180-198516-6 MS
Matrix: Water
Analysis Batch: 506495

Client Sample ID: WAP-4I-111125
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	21		50.0	68.7		mg/L		95	80 - 120
Fluoride	0.15		2.50	2.66		mg/L		101	80 - 120
Sulfate	42		50.0	88.7		mg/L		94	80 - 120

Lab Sample ID: 180-198516-6 MSD
Matrix: Water
Analysis Batch: 506495

Client Sample ID: WAP-4I-111125
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21		50.0	68.6		mg/L		95	80 - 120	0	15
Fluoride	0.15		2.50	2.68		mg/L		101	80 - 120	1	15
Sulfate	42		50.0	88.6		mg/L		94	80 - 120	0	15

Lab Sample ID: 180-198516-25 MS
Matrix: Water
Analysis Batch: 506495

Client Sample ID: FB-1-111325
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		50.0	49.3		mg/L		99	80 - 120
Fluoride	ND		2.50	2.61		mg/L		104	80 - 120
Sulfate	ND		50.0	51.0		mg/L		102	80 - 120

Lab Sample ID: 180-198516-25 MSD
Matrix: Water
Analysis Batch: 506495

Client Sample ID: FB-1-111325
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	49.2		mg/L		98	80 - 120	0	15
Fluoride	ND		2.50	2.60		mg/L		104	80 - 120	0	15
Sulfate	ND		50.0	50.9		mg/L		102	80 - 120	0	15

Method: EPA 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-506577/6
Matrix: Water
Analysis Batch: 506577

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/18/25 12:13	1
Fluoride	ND		0.10	0.026	mg/L			11/18/25 12:13	1
Sulfate	ND		1.0	0.76	mg/L			11/18/25 12:13	1

Lab Sample ID: LCS 180-506577/7
Matrix: Water
Analysis Batch: 506577

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.1		mg/L		98	80 - 120
Fluoride	2.50	2.63		mg/L		105	80 - 120
Sulfate	50.0	50.5		mg/L		101	80 - 120

Lab Sample ID: 180-198516-18 MS
Matrix: Water
Analysis Batch: 506577

Client Sample ID: WAP-8D-111225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	21		50.0	69.8		mg/L		97	80 - 120
Fluoride	0.17		2.50	2.76		mg/L		103	80 - 120
Sulfate	44		50.0	92.0		mg/L		96	80 - 120

Lab Sample ID: 180-198516-18 MSD
Matrix: Water
Analysis Batch: 506577

Client Sample ID: WAP-8D-111225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21		50.0	68.6		mg/L		95	80 - 120	2	15
Fluoride	0.17		2.50	2.72		mg/L		102	80 - 120	1	15
Sulfate	44		50.0	90.3		mg/L		93	80 - 120	2	15

Method: EPA 6010D - Metals (ICP)

Lab Sample ID: MB 410-734116/1-A
Matrix: Water
Analysis Batch: 735018

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.012	mg/L		11/17/25 02:55	11/24/25 18:02	1

Lab Sample ID: LCS 410-734116/2-A
Matrix: Water
Analysis Batch: 735018

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.459		mg/L		92	83 - 119

Method: EPA 6010D - Metals (ICP) (Continued)

Lab Sample ID: 180-198516-6 MS
Matrix: Water
Analysis Batch: 735018

Client Sample ID: WAP-4I-111125
Prep Type: Total Recoverable
Prep Batch: 734116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.075		0.500	0.540		mg/L		93	75 - 125

Lab Sample ID: 180-198516-6 MSD
Matrix: Water
Analysis Batch: 735018

Client Sample ID: WAP-4I-111125
Prep Type: Total Recoverable
Prep Batch: 734116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.075		0.500	0.544		mg/L		94	75 - 125	1	20

Lab Sample ID: MB 410-734251/1-A
Matrix: Water
Analysis Batch: 735026

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.012	mg/L		11/24/25 02:46	11/24/25 16:51	1

Lab Sample ID: LCS 410-734251/2-A
Matrix: Water
Analysis Batch: 735026

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.521		mg/L		104	83 - 119

Lab Sample ID: 180-198516-18 MS
Matrix: Water
Analysis Batch: 735026

Client Sample ID: WAP-8D-111225
Prep Type: Total Recoverable
Prep Batch: 734251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.075		0.500	0.582		mg/L		101	75 - 125

Lab Sample ID: 180-198516-18 MSD
Matrix: Water
Analysis Batch: 735026

Client Sample ID: WAP-8D-111225
Prep Type: Total Recoverable
Prep Batch: 734251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.075		0.500	0.594		mg/L		104	75 - 125	2	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-681399/1-A
Matrix: Water
Analysis Batch: 681766

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 681399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/21/25 05:00	11/22/25 14:43	1
Arsenic	ND		0.0050	0.00075	mg/L		11/21/25 05:00	11/22/25 14:43	1
Barium	ND		0.0050	0.00077	mg/L		11/21/25 05:00	11/22/25 14:43	1
Beryllium	ND		0.0010	0.00027	mg/L		11/21/25 05:00	11/22/25 14:43	1
Cadmium	ND		0.0010	0.000077	mg/L		11/21/25 05:00	11/22/25 14:43	1
Calcium	ND		1.0	0.25	mg/L		11/21/25 05:00	11/22/25 14:43	1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-681399/1-A
Matrix: Water
Analysis Batch: 681766

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 681399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0050	0.0012	mg/L		11/21/25 05:00	11/22/25 14:43	1
Cobalt	ND		0.0010	0.000086	mg/L		11/21/25 05:00	11/22/25 14:43	1
Lead	ND		0.0010	0.00045	mg/L		11/21/25 05:00	11/22/25 14:43	1
Lithium	ND		0.0080	0.0034	mg/L		11/21/25 05:00	11/22/25 14:43	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/21/25 05:00	11/22/25 14:43	1
Selenium	ND		0.0050	0.00089	mg/L		11/21/25 05:00	11/22/25 14:43	1
Thallium	ND		0.0010	0.00051	mg/L		11/21/25 05:00	11/22/25 14:43	1

Lab Sample ID: LCS 240-681399/2-A
Matrix: Water
Analysis Batch: 681766

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 681399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0983		mg/L		98	80 - 120
Arsenic	1.00	0.973		mg/L		97	80 - 120
Barium	1.00	0.966		mg/L		97	80 - 120
Beryllium	0.500	0.477		mg/L		95	80 - 120
Cadmium	0.500	0.479		mg/L		96	80 - 120
Calcium	25.0	25.2		mg/L		101	80 - 120
Chromium	0.500	0.500		mg/L		100	80 - 120
Cobalt	0.500	0.486		mg/L		97	80 - 120
Lead	0.500	0.504		mg/L		101	80 - 120
Lithium	0.500	0.510		mg/L		102	80 - 120
Molybdenum	0.500	0.487		mg/L		97	80 - 120
Selenium	1.00	0.946		mg/L		95	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: 180-198516-6 MS
Matrix: Water
Analysis Batch: 681766

Client Sample ID: WAP-4I-111125
Prep Type: Total Recoverable
Prep Batch: 681399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.100	0.105		mg/L		105	80 - 120
Arsenic	0.0061		1.00	0.983		mg/L		98	80 - 120
Barium	0.17		1.00	1.13		mg/L		96	80 - 120
Beryllium	0.00028	J	0.500	0.489		mg/L		98	80 - 120
Cadmium	0.00021	J	0.500	0.479		mg/L		96	80 - 120
Calcium	42		25.0	66.5		mg/L		98	80 - 120
Chromium	ND		0.500	0.500		mg/L		100	80 - 120
Cobalt	0.00059	J	0.500	0.483		mg/L		97	80 - 120
Lead	ND		0.500	0.506		mg/L		101	80 - 120
Lithium	0.0034	J	0.500	0.523		mg/L		105	80 - 120
Molybdenum	0.0030	J	0.500	0.495		mg/L		98	80 - 120
Selenium	0.0011	J	1.00	0.958		mg/L		96	80 - 120
Thallium	0.00060	J	1.00	1.05		mg/L		105	80 - 120

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-198516-6 MSD
Matrix: Water
Analysis Batch: 681766

Client Sample ID: WAP-4I-111125
Prep Type: Total Recoverable
Prep Batch: 681399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.100	0.104		mg/L		104	80 - 120	0	20
Arsenic	0.0061		1.00	1.01		mg/L		100	80 - 120	3	20
Barium	0.17		1.00	1.16		mg/L		99	80 - 120	3	20
Beryllium	0.00028	J	0.500	0.501		mg/L		100	80 - 120	2	20
Cadmium	0.00021	J	0.500	0.493		mg/L		99	80 - 120	3	20
Calcium	42		25.0	66.9		mg/L		100	80 - 120	1	20
Chromium	ND		0.500	0.510		mg/L		102	80 - 120	2	20
Cobalt	0.00059	J	0.500	0.504		mg/L		101	80 - 120	4	20
Lead	ND		0.500	0.515		mg/L		103	80 - 120	2	20
Lithium	0.0034	J	0.500	0.532		mg/L		106	80 - 120	2	20
Molybdenum	0.0030	J	0.500	0.507		mg/L		101	80 - 120	2	20
Selenium	0.0011	J	1.00	0.973		mg/L		97	80 - 120	2	20
Thallium	0.00060	J	1.00	1.06		mg/L		105	80 - 120	1	20

Lab Sample ID: MB 240-681411/1-A
Matrix: Water
Analysis Batch: 681609

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 681411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/20/25 14:00	11/21/25 14:18	1
Arsenic	ND		0.0050	0.00075	mg/L		11/20/25 14:00	11/21/25 14:18	1
Barium	ND		0.0050	0.00077	mg/L		11/20/25 14:00	11/21/25 14:18	1
Beryllium	ND		0.0010	0.00027	mg/L		11/20/25 14:00	11/21/25 14:18	1
Cadmium	ND		0.0010	0.000077	mg/L		11/20/25 14:00	11/21/25 14:18	1
Calcium	ND		1.0	0.25	mg/L		11/20/25 14:00	11/21/25 14:18	1
Chromium	ND		0.0050	0.0012	mg/L		11/20/25 14:00	11/21/25 14:18	1
Cobalt	0.0000970	J	0.0010	0.000086	mg/L		11/20/25 14:00	11/21/25 14:18	1
Lead	ND		0.0010	0.00045	mg/L		11/20/25 14:00	11/21/25 14:18	1
Lithium	ND		0.0080	0.0034	mg/L		11/20/25 14:00	11/21/25 14:18	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/20/25 14:00	11/21/25 14:18	1
Selenium	ND		0.0050	0.00089	mg/L		11/20/25 14:00	11/21/25 14:18	1
Thallium	ND		0.0010	0.00051	mg/L		11/20/25 14:00	11/21/25 14:18	1

Lab Sample ID: LCS 240-681411/2-A
Matrix: Water
Analysis Batch: 681609

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 681411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0956		mg/L		96	80 - 120
Arsenic	1.00	0.929		mg/L		93	80 - 120
Barium	1.00	0.939		mg/L		94	80 - 120
Beryllium	0.500	0.472		mg/L		94	80 - 120
Cadmium	0.500	0.460		mg/L		92	80 - 120
Calcium	25.0	24.4		mg/L		97	80 - 120
Chromium	0.500	0.487		mg/L		97	80 - 120
Cobalt	0.500	0.452		mg/L		90	80 - 120
Lead	0.500	0.484		mg/L		97	80 - 120
Lithium	0.500	0.500		mg/L		100	80 - 120
Molybdenum	0.500	0.462		mg/L		92	80 - 120

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-681411/2-A
Matrix: Water
Analysis Batch: 681609

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 681411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	1.00	0.934		mg/L		93	80 - 120
Thallium	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: 180-198516-18 MS
Matrix: Water
Analysis Batch: 681609

Client Sample ID: WAP-8D-111225
Prep Type: Total Recoverable
Prep Batch: 681411

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.100	0.103		mg/L		103	80 - 120
Arsenic	0.0036	J	1.00	0.967		mg/L		96	80 - 120
Barium	0.073		1.00	1.06		mg/L		98	80 - 120
Beryllium	ND		0.500	0.487		mg/L		97	80 - 120
Cadmium	ND		0.500	0.478		mg/L		96	80 - 120
Calcium	40		25.0	65.1		mg/L		102	80 - 120
Chromium	ND		0.500	0.506		mg/L		101	80 - 120
Cobalt	0.00011	J B	0.500	0.464		mg/L		93	80 - 120
Lead	ND		0.500	0.507		mg/L		101	80 - 120
Lithium	ND		0.500	0.523		mg/L		105	80 - 120
Molybdenum	0.0022	J	0.500	0.483		mg/L		96	80 - 120
Selenium	ND		1.00	0.970		mg/L		97	80 - 120
Thallium	ND		1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: 180-198516-18 MSD
Matrix: Water
Analysis Batch: 681609

Client Sample ID: WAP-8D-111225
Prep Type: Total Recoverable
Prep Batch: 681411

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.100	0.101		mg/L		101	80 - 120	2	20
Arsenic	0.0036	J	1.00	0.953		mg/L		95	80 - 120	1	20
Barium	0.073		1.00	1.04		mg/L		97	80 - 120	2	20
Beryllium	ND		0.500	0.490		mg/L		98	80 - 120	1	20
Cadmium	ND		0.500	0.474		mg/L		95	80 - 120	1	20
Calcium	40		25.0	64.3		mg/L		99	80 - 120	1	20
Chromium	ND		0.500	0.496		mg/L		99	80 - 120	2	20
Cobalt	0.00011	J B	0.500	0.465		mg/L		93	80 - 120	0	20
Lead	ND		0.500	0.502		mg/L		100	80 - 120	1	20
Lithium	ND		0.500	0.516		mg/L		103	80 - 120	1	20
Molybdenum	0.0022	J	0.500	0.474		mg/L		94	80 - 120	2	20
Selenium	ND		1.00	0.950		mg/L		95	80 - 120	2	20
Thallium	ND		1.00	1.04		mg/L		104	80 - 120	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-735826/1-A
Matrix: Water
Analysis Batch: 737162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/30/25 23:00	12/01/25 11:28	1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 410-735826/2-A
Matrix: Water
Analysis Batch: 737162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00100	0.00100		mg/L		100	80 - 120		

Lab Sample ID: 180-198516-6 MS
Matrix: Water
Analysis Batch: 737162

Client Sample ID: WAP-4I-111125
Prep Type: Total/NA
Prep Batch: 735826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00100	0.00104		mg/L		104	80 - 120		

Lab Sample ID: 180-198516-6 MSD
Matrix: Water
Analysis Batch: 737162

Client Sample ID: WAP-4I-111125
Prep Type: Total/NA
Prep Batch: 735826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000976		mg/L		98	80 - 120	6	20

Lab Sample ID: MB 410-735831/1-A
Matrix: Water
Analysis Batch: 737343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		12/01/25 10:38	12/01/25 18:27	1

Lab Sample ID: LCS 410-735831/2-A
Matrix: Water
Analysis Batch: 737343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735831

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00100	0.000961		mg/L		96	80 - 120		

Lab Sample ID: 180-198516-18 MS
Matrix: Water
Analysis Batch: 737343

Client Sample ID: WAP-8D-111225
Prep Type: Total/NA
Prep Batch: 735831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00100	0.000952		mg/L		95	80 - 120		

Lab Sample ID: 180-198516-18 MSD
Matrix: Water
Analysis Batch: 737343

Client Sample ID: WAP-8D-111225
Prep Type: Total/NA
Prep Batch: 735831

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000965		mg/L		97	80 - 120	1	20

Method: EPA 9040C - pH

Lab Sample ID: LCS 180-506683/1
Matrix: Water
Analysis Batch: 506683

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-506683/24
Matrix: Water
Analysis Batch: 506683

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		101	99 - 101

Lab Sample ID: LCS 180-506685/24
Matrix: Water
Analysis Batch: 506685

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

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

Lab Sample ID: MB 180-506515/1
Matrix: Water
Analysis Batch: 506515

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		10	10	mg/L			11/17/25 13:06	1

Lab Sample ID: LCS 180-506515/2
Matrix: Water
Analysis Batch: 506515

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	285	268		mg/L		94	85 - 115

Lab Sample ID: MB 180-506520/1
Matrix: Water
Analysis Batch: 506520

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		10	10	mg/L			11/17/25 13:50	1

Lab Sample ID: LCS 180-506520/2
Matrix: Water
Analysis Batch: 506520

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	285	256		mg/L		90	85 - 115

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-746138/1-A
Matrix: Water
Analysis Batch: 749683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746138

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05642	U	0.151	0.151	1.00	0.282	pCi/L	11/20/25 08:59	12/16/25 21:14	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110	11/20/25 08:59	12/16/25 21:14	1

Lab Sample ID: LCS 160-746138/2-A
Matrix: Water
Analysis Batch: 749683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746138

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.57	8.274		1.11	1.00	0.277	pCi/L	86	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.8		30 - 110

Lab Sample ID: 180-198516-18 DU
Matrix: Water
Analysis Batch: 749683

Client Sample ID: WAP-8D-111225
Prep Type: Total/NA
Prep Batch: 746138

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.592			0.5722		0.294	1.00	0.354	pCi/L			0.03	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	72.8		30 - 110

Lab Sample ID: MB 160-746142/1-A
Matrix: Water
Analysis Batch: 749245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746142

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.3377	U	0.264	0.266	1.00	0.398	pCi/L	11/20/25 09:10	12/14/25 13:34	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	56.0		30 - 110	11/20/25 09:10	12/14/25 13:34	1

Lab Sample ID: LCS 160-746142/2-A
Matrix: Water
Analysis Batch: 749246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746142

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.57	10.84		1.26	1.00	0.225	pCi/L	113	75 - 125		

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-746142/2-A
Matrix: Water
Analysis Batch: 749246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746142

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	79.6		30 - 110

Lab Sample ID: 180-198516-6 DU
Matrix: Water
Analysis Batch: 749244

Client Sample ID: WAP-4I-111125
Prep Type: Total/NA
Prep Batch: 746142

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.206			0.1721	U	0.134	1.00	0.189	pCi/L			0.12	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	77.0		30 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-746139/1-A
Matrix: Water
Analysis Batch: 749698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746139

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5066	U	0.415	0.418	1.00	0.650	pCi/L	11/20/25 09:02	12/16/25 09:48	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110	11/20/25 09:02	12/16/25 09:48	1
Y Carrier	80.7		30 - 110	11/20/25 09:02	12/16/25 09:48	1

Lab Sample ID: LCS 160-746139/2-A
Matrix: Water
Analysis Batch: 749698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746139

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.85	9.692		1.37	1.00	0.674	pCi/L	123	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.8		30 - 110
Y Carrier	83.0		30 - 110

Lab Sample ID: 180-198516-18 DU
Matrix: Water
Analysis Batch: 749698

Client Sample ID: WAP-8D-111225
Prep Type: Total/NA
Prep Batch: 746139

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.01			0.3948	U	0.588	1.00	0.989	pCi/L			0.54	1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 180-198516-18 DU
Matrix: Water
Analysis Batch: 749698

Client Sample ID: WAP-8D-111225
Prep Type: Total/NA
Prep Batch: 746139

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	72.8		30 - 110
Y Carrier	74.8		30 - 110

Lab Sample ID: MB 160-746143/1-A
Matrix: Water
Analysis Batch: 749172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746143

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5881	U	0.616	0.618	1.00	1.00	pCi/L	11/20/25 09:12	12/12/25 12:13	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	56.0		30 - 110	11/20/25 09:12	12/12/25 12:13	1
Y Carrier	84.9		30 - 110	11/20/25 09:12	12/12/25 12:13	1

Lab Sample ID: LCS 160-746143/2-A
Matrix: Water
Analysis Batch: 749172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746143

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.86	10.58		1.51	1.00	0.732	pCi/L	135	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	79.6		30 - 110
Y Carrier	82.6		30 - 110

Lab Sample ID: 180-198516-6 DU
Matrix: Water
Analysis Batch: 749173

Client Sample ID: WAP-4I-111125
Prep Type: Total/NA
Prep Batch: 746143

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	-0.293	U		0.8990	F	0.432	1.00	0.555	pCi/L			1.64	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	77.0		30 - 110
Y Carrier	81.5		30 - 110

HPLC/IC

Analysis Batch: 506495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total/NA	Water	EPA 9056A	
180-198516-1	WAP-1-111325	Total/NA	Water	EPA 9056A	
180-198516-2	WAP-2RR-111225	Total/NA	Water	EPA 9056A	
180-198516-3	WAP-3S-111225	Total/NA	Water	EPA 9056A	
180-198516-4	WAP-3D-111225	Total/NA	Water	EPA 9056A	
180-198516-4	WAP-3D-111225	Total/NA	Water	EPA 9056A	
180-198516-5	WAP-4S-111125	Total/NA	Water	EPA 9056A	
180-198516-5	WAP-4S-111125	Total/NA	Water	EPA 9056A	
180-198516-6	WAP-4I-111125	Total/NA	Water	EPA 9056A	
180-198516-7	WAP-4D-111125	Total/NA	Water	EPA 9056A	
180-198516-8	WAP-5S-111125	Total/NA	Water	EPA 9056A	
180-198516-8	WAP-5S-111125	Total/NA	Water	EPA 9056A	
180-198516-9	WAP-5I-111125	Total/NA	Water	EPA 9056A	
180-198516-10	WAP-5D-111125	Total/NA	Water	EPA 9056A	
180-198516-11	WAP-6S-111325	Total/NA	Water	EPA 9056A	
180-198516-12	WAP-6I-111125	Total/NA	Water	EPA 9056A	
180-198516-13	WAP-6D-111125	Total/NA	Water	EPA 9056A	
180-198516-14	WAP-7S-111225	Total/NA	Water	EPA 9056A	
180-198516-14	WAP-7S-111225	Total/NA	Water	EPA 9056A	
180-198516-15	WAP-7D-111225	Total/NA	Water	EPA 9056A	
180-198516-15	WAP-7D-111225	Total/NA	Water	EPA 9056A	
180-198516-16	WAP-8S-111125	Total/NA	Water	EPA 9056A	
180-198516-16	WAP-8S-111125	Total/NA	Water	EPA 9056A	
180-198516-17	WAP-8I-111125	Total/NA	Water	EPA 9056A	
180-198516-19	WAP-9S-111325	Total/NA	Water	EPA 9056A	
180-198516-25	FB-1-111325	Total/NA	Water	EPA 9056A	
MB 180-506495/38	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-506495/39	Lab Control Sample	Total/NA	Water	EPA 9056A	
180-198516-6 MS	WAP-4I-111125	Total/NA	Water	EPA 9056A	
180-198516-6 MSD	WAP-4I-111125	Total/NA	Water	EPA 9056A	
180-198516-25 MS	FB-1-111325	Total/NA	Water	EPA 9056A	
180-198516-25 MSD	FB-1-111325	Total/NA	Water	EPA 9056A	

Analysis Batch: 506577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-3	WAP-3S-111225	Total/NA	Water	EPA 9056A	
180-198516-18	WAP-8D-111225	Total/NA	Water	EPA 9056A	
180-198516-20	WAP-9I-111325	Total/NA	Water	EPA 9056A	
180-198516-21	WAP-9D-111325	Total/NA	Water	EPA 9056A	
180-198516-22	CCR-AP-7-111325	Total/NA	Water	EPA 9056A	
180-198516-23	DUP-1-111125	Total/NA	Water	EPA 9056A	
180-198516-24	DUP-2-111225	Total/NA	Water	EPA 9056A	
180-198516-24	DUP-2-111225	Total/NA	Water	EPA 9056A	
MB 180-506577/6	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-506577/7	Lab Control Sample	Total/NA	Water	EPA 9056A	
180-198516-18 MS	WAP-8D-111225	Total/NA	Water	EPA 9056A	
180-198516-18 MSD	WAP-8D-111225	Total/NA	Water	EPA 9056A	

Metals

Prep Batch: 681399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total Recoverable	Water	3005A	
180-198516-2	WAP-2RR-111225	Total Recoverable	Water	3005A	
180-198516-3	WAP-3S-111225	Total Recoverable	Water	3005A	
180-198516-4	WAP-3D-111225	Total Recoverable	Water	3005A	
180-198516-5	WAP-4S-111125	Total Recoverable	Water	3005A	
180-198516-6	WAP-4I-111125	Total Recoverable	Water	3005A	
180-198516-7	WAP-4D-111125	Total Recoverable	Water	3005A	
180-198516-8	WAP-5S-111125	Total Recoverable	Water	3005A	
180-198516-9	WAP-5I-111125	Total Recoverable	Water	3005A	
180-198516-10	WAP-5D-111125	Total Recoverable	Water	3005A	
180-198516-11	WAP-6S-111325	Total Recoverable	Water	3005A	
180-198516-12	WAP-6I-111125	Total Recoverable	Water	3005A	
180-198516-13	WAP-6D-111125	Total Recoverable	Water	3005A	
180-198516-14	WAP-7S-111225	Total Recoverable	Water	3005A	
180-198516-15	WAP-7D-111225	Total Recoverable	Water	3005A	
180-198516-16	WAP-8S-111125	Total Recoverable	Water	3005A	
180-198516-17	WAP-8I-111125	Total Recoverable	Water	3005A	
180-198516-19	WAP-9S-111325	Total Recoverable	Water	3005A	
180-198516-20	WAP-9I-111325	Total Recoverable	Water	3005A	
180-198516-21	WAP-9D-111325	Total Recoverable	Water	3005A	
MB 240-681399/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-681399/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-198516-6 MS	WAP-4I-111125	Total Recoverable	Water	3005A	
180-198516-6 MSD	WAP-4I-111125	Total Recoverable	Water	3005A	

Prep Batch: 681411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-18	WAP-8D-111225	Total Recoverable	Water	3005A	
180-198516-22	CCR-AP-7-111325	Total Recoverable	Water	3005A	
180-198516-23	DUP-1-111125	Total Recoverable	Water	3005A	
180-198516-24	DUP-2-111225	Total Recoverable	Water	3005A	
180-198516-25	FB-1-111325	Total Recoverable	Water	3005A	
MB 240-681411/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-681411/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-198516-18 MS	WAP-8D-111225	Total Recoverable	Water	3005A	
180-198516-18 MSD	WAP-8D-111225	Total Recoverable	Water	3005A	

Analysis Batch: 681609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-18	WAP-8D-111225	Total Recoverable	Water	EPA 6020B	681411
180-198516-22	CCR-AP-7-111325	Total Recoverable	Water	EPA 6020B	681411
180-198516-23	DUP-1-111125	Total Recoverable	Water	EPA 6020B	681411
180-198516-24	DUP-2-111225	Total Recoverable	Water	EPA 6020B	681411
180-198516-25	FB-1-111325	Total Recoverable	Water	EPA 6020B	681411
MB 240-681411/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	681411
LCS 240-681411/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	681411
180-198516-18 MS	WAP-8D-111225	Total Recoverable	Water	EPA 6020B	681411
180-198516-18 MSD	WAP-8D-111225	Total Recoverable	Water	EPA 6020B	681411

Metals

Analysis Batch: 681766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total Recoverable	Water	EPA 6020B	681399
180-198516-2	WAP-2RR-111225	Total Recoverable	Water	EPA 6020B	681399
180-198516-3	WAP-3S-111225	Total Recoverable	Water	EPA 6020B	681399
180-198516-4	WAP-3D-111225	Total Recoverable	Water	EPA 6020B	681399
180-198516-5	WAP-4S-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-6	WAP-4I-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-7	WAP-4D-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-8	WAP-5S-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-9	WAP-5I-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-10	WAP-5D-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-11	WAP-6S-111325	Total Recoverable	Water	EPA 6020B	681399
180-198516-12	WAP-6I-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-13	WAP-6D-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-14	WAP-7S-111225	Total Recoverable	Water	EPA 6020B	681399
180-198516-15	WAP-7D-111225	Total Recoverable	Water	EPA 6020B	681399
180-198516-16	WAP-8S-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-17	WAP-8I-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-19	WAP-9S-111325	Total Recoverable	Water	EPA 6020B	681399
180-198516-20	WAP-9I-111325	Total Recoverable	Water	EPA 6020B	681399
180-198516-21	WAP-9D-111325	Total Recoverable	Water	EPA 6020B	681399
MB 240-681399/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	681399
LCS 240-681399/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	681399
180-198516-6 MS	WAP-4I-111125	Total Recoverable	Water	EPA 6020B	681399
180-198516-6 MSD	WAP-4I-111125	Total Recoverable	Water	EPA 6020B	681399

Prep Batch: 734116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total Recoverable	Water	3005A	
180-198516-2	WAP-2RR-111225	Total Recoverable	Water	3005A	
180-198516-3	WAP-3S-111225	Total Recoverable	Water	3005A	
180-198516-4	WAP-3D-111225	Total Recoverable	Water	3005A	
180-198516-5	WAP-4S-111125	Total Recoverable	Water	3005A	
180-198516-6	WAP-4I-111125	Total Recoverable	Water	3005A	
180-198516-7	WAP-4D-111125	Total Recoverable	Water	3005A	
180-198516-8	WAP-5S-111125	Total Recoverable	Water	3005A	
180-198516-9	WAP-5I-111125	Total Recoverable	Water	3005A	
180-198516-10	WAP-5D-111125	Total Recoverable	Water	3005A	
180-198516-11	WAP-6S-111325	Total Recoverable	Water	3005A	
180-198516-12	WAP-6I-111125	Total Recoverable	Water	3005A	
180-198516-13	WAP-6D-111125	Total Recoverable	Water	3005A	
180-198516-21	WAP-9D-111325	Total Recoverable	Water	3005A	
180-198516-22	CCR-AP-7-111325	Total Recoverable	Water	3005A	
180-198516-23	DUP-1-111125	Total Recoverable	Water	3005A	
MB 410-734116/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-734116/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-198516-6 MS	WAP-4I-111125	Total Recoverable	Water	3005A	
180-198516-6 MSD	WAP-4I-111125	Total Recoverable	Water	3005A	

Prep Batch: 734251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-14	WAP-7S-111225	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 734251 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-15	WAP-7D-111225	Total Recoverable	Water	3005A	
180-198516-16	WAP-8S-111125	Total Recoverable	Water	3005A	
180-198516-17	WAP-8I-111125	Total Recoverable	Water	3005A	
180-198516-18	WAP-8D-111225	Total Recoverable	Water	3005A	
180-198516-19	WAP-9S-111325	Total Recoverable	Water	3005A	
180-198516-20	WAP-9I-111325	Total Recoverable	Water	3005A	
180-198516-24	DUP-2-111225	Total Recoverable	Water	3005A	
180-198516-25	FB-1-111325	Total Recoverable	Water	3005A	
MB 410-734251/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-734251/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-198516-18 MS	WAP-8D-111225	Total Recoverable	Water	3005A	
180-198516-18 MSD	WAP-8D-111225	Total Recoverable	Water	3005A	

Analysis Batch: 735018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total Recoverable	Water	EPA 6010D	734116
180-198516-2	WAP-2RR-111225	Total Recoverable	Water	EPA 6010D	734116
180-198516-3	WAP-3S-111225	Total Recoverable	Water	EPA 6010D	734116
180-198516-4	WAP-3D-111225	Total Recoverable	Water	EPA 6010D	734116
180-198516-5	WAP-4S-111125	Total Recoverable	Water	EPA 6010D	734116
180-198516-6	WAP-4I-111125	Total Recoverable	Water	EPA 6010D	734116
180-198516-7	WAP-4D-111125	Total Recoverable	Water	EPA 6010D	734116
180-198516-8	WAP-5S-111125	Total Recoverable	Water	EPA 6010D	734116
180-198516-9	WAP-5I-111125	Total Recoverable	Water	EPA 6010D	734116
180-198516-10	WAP-5D-111125	Total Recoverable	Water	EPA 6010D	734116
180-198516-11	WAP-6S-111325	Total Recoverable	Water	EPA 6010D	734116
180-198516-12	WAP-6I-111125	Total Recoverable	Water	EPA 6010D	734116
180-198516-13	WAP-6D-111125	Total Recoverable	Water	EPA 6010D	734116
180-198516-21	WAP-9D-111325	Total Recoverable	Water	EPA 6010D	734116
180-198516-22	CCR-AP-7-111325	Total Recoverable	Water	EPA 6010D	734116
180-198516-23	DUP-1-111125	Total Recoverable	Water	EPA 6010D	734116
MB 410-734116/1-A	Method Blank	Total Recoverable	Water	EPA 6010D	734116
LCS 410-734116/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6010D	734116
180-198516-6 MS	WAP-4I-111125	Total Recoverable	Water	EPA 6010D	734116
180-198516-6 MSD	WAP-4I-111125	Total Recoverable	Water	EPA 6010D	734116

Analysis Batch: 735026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-16	WAP-8S-111125	Total Recoverable	Water	EPA 6010D	734251
180-198516-17	WAP-8I-111125	Total Recoverable	Water	EPA 6010D	734251
180-198516-18	WAP-8D-111225	Total Recoverable	Water	EPA 6010D	734251
180-198516-19	WAP-9S-111325	Total Recoverable	Water	EPA 6010D	734251
180-198516-20	WAP-9I-111325	Total Recoverable	Water	EPA 6010D	734251
180-198516-24	DUP-2-111225	Total Recoverable	Water	EPA 6010D	734251
180-198516-25	FB-1-111325	Total Recoverable	Water	EPA 6010D	734251
MB 410-734251/1-A	Method Blank	Total Recoverable	Water	EPA 6010D	734251
LCS 410-734251/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6010D	734251
180-198516-18 MS	WAP-8D-111225	Total Recoverable	Water	EPA 6010D	734251
180-198516-18 MSD	WAP-8D-111225	Total Recoverable	Water	EPA 6010D	734251

Metals

Analysis Batch: 735735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-14	WAP-7S-111225	Total Recoverable	Water	EPA 6010D	734251
180-198516-15	WAP-7D-111225	Total Recoverable	Water	EPA 6010D	734251

Prep Batch: 735826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total/NA	Water	7470A	
180-198516-2	WAP-2RR-111225	Total/NA	Water	7470A	
180-198516-3	WAP-3S-111225	Total/NA	Water	7470A	
180-198516-4	WAP-3D-111225	Total/NA	Water	7470A	
180-198516-5	WAP-4S-111125	Total/NA	Water	7470A	
180-198516-6	WAP-4I-111125	Total/NA	Water	7470A	
180-198516-7	WAP-4D-111125	Total/NA	Water	7470A	
180-198516-8	WAP-5S-111125	Total/NA	Water	7470A	
180-198516-9	WAP-5I-111125	Total/NA	Water	7470A	
180-198516-10	WAP-5D-111125	Total/NA	Water	7470A	
180-198516-11	WAP-6S-111325	Total/NA	Water	7470A	
180-198516-12	WAP-6I-111125	Total/NA	Water	7470A	
180-198516-13	WAP-6D-111125	Total/NA	Water	7470A	
180-198516-14	WAP-7S-111225	Total/NA	Water	7470A	
180-198516-15	WAP-7D-111225	Total/NA	Water	7470A	
180-198516-16	WAP-8S-111125	Total/NA	Water	7470A	
180-198516-17	WAP-8I-111125	Total/NA	Water	7470A	
180-198516-19	WAP-9S-111325	Total/NA	Water	7470A	
180-198516-24	DUP-2-111225	Total/NA	Water	7470A	
180-198516-25	FB-1-111325	Total/NA	Water	7470A	
MB 410-735826/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-735826/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-198516-6 MS	WAP-4I-111125	Total/NA	Water	7470A	
180-198516-6 MSD	WAP-4I-111125	Total/NA	Water	7470A	

Prep Batch: 735831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-18	WAP-8D-111225	Total/NA	Water	7470A	
180-198516-20	WAP-9I-111325	Total/NA	Water	7470A	
180-198516-21	WAP-9D-111325	Total/NA	Water	7470A	
180-198516-22	CCR-AP-7-111325	Total/NA	Water	7470A	
180-198516-23	DUP-1-111125	Total/NA	Water	7470A	
MB 410-735831/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-735831/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-198516-18 MS	WAP-8D-111225	Total/NA	Water	7470A	
180-198516-18 MSD	WAP-8D-111225	Total/NA	Water	7470A	

Analysis Batch: 737162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total/NA	Water	EPA 7470A	735826
180-198516-2	WAP-2RR-111225	Total/NA	Water	EPA 7470A	735826
180-198516-3	WAP-3S-111225	Total/NA	Water	EPA 7470A	735826
180-198516-4	WAP-3D-111225	Total/NA	Water	EPA 7470A	735826
180-198516-5	WAP-4S-111125	Total/NA	Water	EPA 7470A	735826
180-198516-6	WAP-4I-111125	Total/NA	Water	EPA 7470A	735826
180-198516-7	WAP-4D-111125	Total/NA	Water	EPA 7470A	735826

Metals (Continued)

Analysis Batch: 737162 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-8	WAP-5S-111125	Total/NA	Water	EPA 7470A	735826
180-198516-9	WAP-5I-111125	Total/NA	Water	EPA 7470A	735826
180-198516-10	WAP-5D-111125	Total/NA	Water	EPA 7470A	735826
180-198516-11	WAP-6S-111325	Total/NA	Water	EPA 7470A	735826
180-198516-12	WAP-6I-111125	Total/NA	Water	EPA 7470A	735826
180-198516-13	WAP-6D-111125	Total/NA	Water	EPA 7470A	735826
180-198516-14	WAP-7S-111225	Total/NA	Water	EPA 7470A	735826
180-198516-15	WAP-7D-111225	Total/NA	Water	EPA 7470A	735826
180-198516-16	WAP-8S-111125	Total/NA	Water	EPA 7470A	735826
180-198516-17	WAP-8I-111125	Total/NA	Water	EPA 7470A	735826
180-198516-19	WAP-9S-111325	Total/NA	Water	EPA 7470A	735826
180-198516-24	DUP-2-111225	Total/NA	Water	EPA 7470A	735826
180-198516-25	FB-1-111325	Total/NA	Water	EPA 7470A	735826
MB 410-735826/1-A	Method Blank	Total/NA	Water	EPA 7470A	735826
LCS 410-735826/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	735826
180-198516-6 MS	WAP-4I-111125	Total/NA	Water	EPA 7470A	735826
180-198516-6 MSD	WAP-4I-111125	Total/NA	Water	EPA 7470A	735826

Analysis Batch: 737343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-18	WAP-8D-111225	Total/NA	Water	EPA 7470A	735831
180-198516-20	WAP-9I-111325	Total/NA	Water	EPA 7470A	735831
180-198516-21	WAP-9D-111325	Total/NA	Water	EPA 7470A	735831
180-198516-22	CCR-AP-7-111325	Total/NA	Water	EPA 7470A	735831
180-198516-23	DUP-1-111125	Total/NA	Water	EPA 7470A	735831
MB 410-735831/1-A	Method Blank	Total/NA	Water	EPA 7470A	735831
LCS 410-735831/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	735831
180-198516-18 MS	WAP-8D-111225	Total/NA	Water	EPA 7470A	735831
180-198516-18 MSD	WAP-8D-111225	Total/NA	Water	EPA 7470A	735831

General Chemistry

Analysis Batch: 506515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total/NA	Water	SM 2540C	
180-198516-2	WAP-2RR-111225	Total/NA	Water	SM 2540C	
180-198516-3	WAP-3S-111225	Total/NA	Water	SM 2540C	
180-198516-4	WAP-3D-111225	Total/NA	Water	SM 2540C	
180-198516-5	WAP-4S-111125	Total/NA	Water	SM 2540C	
MB 180-506515/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-506515/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 506520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-6	WAP-4I-111125	Total/NA	Water	SM 2540C	
180-198516-7	WAP-4D-111125	Total/NA	Water	SM 2540C	
180-198516-8	WAP-5S-111125	Total/NA	Water	SM 2540C	
180-198516-9	WAP-5I-111125	Total/NA	Water	SM 2540C	
180-198516-10	WAP-5D-111125	Total/NA	Water	SM 2540C	
180-198516-11	WAP-6S-111325	Total/NA	Water	SM 2540C	
180-198516-12	WAP-6I-111125	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 506520 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-13	WAP-6D-111125	Total/NA	Water	SM 2540C	
180-198516-14	WAP-7S-111225	Total/NA	Water	SM 2540C	
180-198516-15	WAP-7D-111225	Total/NA	Water	SM 2540C	
180-198516-16	WAP-8S-111125	Total/NA	Water	SM 2540C	
180-198516-17	WAP-8I-111125	Total/NA	Water	SM 2540C	
180-198516-18	WAP-8D-111225	Total/NA	Water	SM 2540C	
180-198516-19	WAP-9S-111325	Total/NA	Water	SM 2540C	
180-198516-20	WAP-9I-111325	Total/NA	Water	SM 2540C	
180-198516-21	WAP-9D-111325	Total/NA	Water	SM 2540C	
180-198516-22	CCR-AP-7-111325	Total/NA	Water	SM 2540C	
180-198516-23	DUP-1-111125	Total/NA	Water	SM 2540C	
180-198516-24	DUP-2-111225	Total/NA	Water	SM 2540C	
180-198516-25	FB-1-111325	Total/NA	Water	SM 2540C	
MB 180-506520/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-506520/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 506683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total/NA	Water	EPA 9040C	
180-198516-2	WAP-2RR-111225	Total/NA	Water	EPA 9040C	
180-198516-3	WAP-3S-111225	Total/NA	Water	EPA 9040C	
180-198516-4	WAP-3D-111225	Total/NA	Water	EPA 9040C	
180-198516-5	WAP-4S-111125	Total/NA	Water	EPA 9040C	
180-198516-6	WAP-4I-111125	Total/NA	Water	EPA 9040C	
180-198516-7	WAP-4D-111125	Total/NA	Water	EPA 9040C	
180-198516-8	WAP-5S-111125	Total/NA	Water	EPA 9040C	
180-198516-9	WAP-5I-111125	Total/NA	Water	EPA 9040C	
180-198516-10	WAP-5D-111125	Total/NA	Water	EPA 9040C	
180-198516-11	WAP-6S-111325	Total/NA	Water	EPA 9040C	
180-198516-12	WAP-6I-111125	Total/NA	Water	EPA 9040C	
180-198516-13	WAP-6D-111125	Total/NA	Water	EPA 9040C	
180-198516-14	WAP-7S-111225	Total/NA	Water	EPA 9040C	
180-198516-15	WAP-7D-111225	Total/NA	Water	EPA 9040C	
180-198516-16	WAP-8S-111125	Total/NA	Water	EPA 9040C	
180-198516-17	WAP-8I-111125	Total/NA	Water	EPA 9040C	
180-198516-18	WAP-8D-111225	Total/NA	Water	EPA 9040C	
180-198516-19	WAP-9S-111325	Total/NA	Water	EPA 9040C	
180-198516-20	WAP-9I-111325	Total/NA	Water	EPA 9040C	
180-198516-21	WAP-9D-111325	Total/NA	Water	EPA 9040C	
180-198516-22	CCR-AP-7-111325	Total/NA	Water	EPA 9040C	
180-198516-23	DUP-1-111125	Total/NA	Water	EPA 9040C	
180-198516-24	DUP-2-111225	Total/NA	Water	EPA 9040C	
LCS 180-506683/1	Lab Control Sample	Total/NA	Water	EPA 9040C	
LCS 180-506683/24	Lab Control Sample	Total/NA	Water	EPA 9040C	

Analysis Batch: 506685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-25	FB-1-111325	Total/NA	Water	EPA 9040C	
LCS 180-506685/24	Lab Control Sample	Total/NA	Water	EPA 9040C	

Rad

Prep Batch: 746138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-14	WAP-7S-111225	Total/NA	Water	PrecSep-21	
180-198516-15	WAP-7D-111225	Total/NA	Water	PrecSep-21	
180-198516-16	WAP-8S-111125	Total/NA	Water	PrecSep-21	
180-198516-17	WAP-8I-111125	Total/NA	Water	PrecSep-21	
180-198516-18	WAP-8D-111225	Total/NA	Water	PrecSep-21	
180-198516-19	WAP-9S-111325	Total/NA	Water	PrecSep-21	
180-198516-20	WAP-9I-111325	Total/NA	Water	PrecSep-21	
180-198516-21	WAP-9D-111325	Total/NA	Water	PrecSep-21	
180-198516-22	CCR-AP-7-111325	Total/NA	Water	PrecSep-21	
180-198516-23	DUP-1-111125	Total/NA	Water	PrecSep-21	
180-198516-24	DUP-2-111225	Total/NA	Water	PrecSep-21	
180-198516-25	FB-1-111325	Total/NA	Water	PrecSep-21	
MB 160-746138/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-746138/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-198516-18 DU	WAP-8D-111225	Total/NA	Water	PrecSep-21	

Prep Batch: 746139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-14	WAP-7S-111225	Total/NA	Water	PrecSep_0	
180-198516-15	WAP-7D-111225	Total/NA	Water	PrecSep_0	
180-198516-16	WAP-8S-111125	Total/NA	Water	PrecSep_0	
180-198516-17	WAP-8I-111125	Total/NA	Water	PrecSep_0	
180-198516-18	WAP-8D-111225	Total/NA	Water	PrecSep_0	
180-198516-19	WAP-9S-111325	Total/NA	Water	PrecSep_0	
180-198516-20	WAP-9I-111325	Total/NA	Water	PrecSep_0	
180-198516-21	WAP-9D-111325	Total/NA	Water	PrecSep_0	
180-198516-22	CCR-AP-7-111325	Total/NA	Water	PrecSep_0	
180-198516-23	DUP-1-111125	Total/NA	Water	PrecSep_0	
180-198516-24	DUP-2-111225	Total/NA	Water	PrecSep_0	
180-198516-25	FB-1-111325	Total/NA	Water	PrecSep_0	
MB 160-746139/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-746139/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-198516-18 DU	WAP-8D-111225	Total/NA	Water	PrecSep_0	

Prep Batch: 746142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total/NA	Water	PrecSep-21	
180-198516-2	WAP-2RR-111225	Total/NA	Water	PrecSep-21	
180-198516-3	WAP-3S-111225	Total/NA	Water	PrecSep-21	
180-198516-4	WAP-3D-111225	Total/NA	Water	PrecSep-21	
180-198516-5	WAP-4S-111125	Total/NA	Water	PrecSep-21	
180-198516-6	WAP-4I-111125	Total/NA	Water	PrecSep-21	
180-198516-7	WAP-4D-111125	Total/NA	Water	PrecSep-21	
180-198516-8	WAP-5S-111125	Total/NA	Water	PrecSep-21	
180-198516-9	WAP-5I-111125	Total/NA	Water	PrecSep-21	
180-198516-10	WAP-5D-111125	Total/NA	Water	PrecSep-21	
180-198516-11	WAP-6S-111325	Total/NA	Water	PrecSep-21	
180-198516-12	WAP-6I-111125	Total/NA	Water	PrecSep-21	
180-198516-13	WAP-6D-111125	Total/NA	Water	PrecSep-21	
MB 160-746142/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-746142/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 746142 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-6 DU	WAP-4I-111125	Total/NA	Water	PrecSep-21	

Prep Batch: 746143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198516-1	WAP-1-111325	Total/NA	Water	PrecSep_0	
180-198516-2	WAP-2RR-111225	Total/NA	Water	PrecSep_0	
180-198516-3	WAP-3S-111225	Total/NA	Water	PrecSep_0	
180-198516-4	WAP-3D-111225	Total/NA	Water	PrecSep_0	
180-198516-5	WAP-4S-111125	Total/NA	Water	PrecSep_0	
180-198516-6	WAP-4I-111125	Total/NA	Water	PrecSep_0	
180-198516-7	WAP-4D-111125	Total/NA	Water	PrecSep_0	
180-198516-8	WAP-5S-111125	Total/NA	Water	PrecSep_0	
180-198516-9	WAP-5I-111125	Total/NA	Water	PrecSep_0	
180-198516-10	WAP-5D-111125	Total/NA	Water	PrecSep_0	
180-198516-11	WAP-6S-111325	Total/NA	Water	PrecSep_0	
180-198516-12	WAP-6I-111125	Total/NA	Water	PrecSep_0	
180-198516-13	WAP-6D-111125	Total/NA	Water	PrecSep_0	
MB 160-746143/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-746143/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-198516-6 DU	WAP-4I-111125	Total/NA	Water	PrecSep_0	

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Raegen Elwer	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-118801-14503 2
Client Contact: Britton Hundley	Phone: 614-353-8403	E-Mail: Andy Johnson@et eurofinsus com	State of Origin:	Page: ~~Page 2 of 4~~ 1 of 3
Company: Haley & Aldrich Inc	PWSID:			Job #:
Address: 400 Augusta Street Suite 100	Due Date Requested:			
City: Greenville	TAT Requested (days): STD			
State, Zip: SC, 29601	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 0129420-032-001-02			
Email: BHundley@haleyaldrich com	WO #: See Chain			
Project Name: CCR GW Monitoring FB Culley West	Project #: 18016014			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None; D - HNO3

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)	9040C, 9056A_ORGFM_28D	2540C_Calcd - TDS by 2540C	9315_Ra226, 9320_Ra228	6020B - Metals by 6020B	7470A - Hg by 7470A	6010D - Boron by 6010D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	D	D	D		
WAP-1-111325	11/13/25	1140	G	Water	N	N	X	X	X	X	X			not enough volume for radium
WAP-2RR-111225	11/12/25	1430	G	Water	N	N	X	X	X	X	X			
WAP-35-111225	11/12/25	0830	G	Water	N	N	X	X	X	X	X			
WAP-3D-111225	11/12/25	0950	G	Water	N	N	X	X	X	X	X			
WAP-4S-111125	11/11/25	0935	G	Water	N	N	X	X	X	X	X			
WAP-4I-111125	11/11/25	1130	G	Water	N	Y	X	X	X	X	X			MS/MSD
WAP-4D-111125	11/11/25	1340	G	Water	N	N	X	X	X	X	X			
WAP-5S-111125	11/11/25	1635	G	Water	N	N	X	X	X	X	X			
WAP-5I-111125	11/11/25	15:45	G	Water	N	N	X	X	X	X	X			
WAP-5D-111125	11/11/25	1415	G	Water	N	N	X	X	X	X	X			
WAP-6S-111325	11/13/25	0850	G	Water	N	N	X	X	X	X	X			

180-198516 Chain of Custody

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
1	Raegen Elwer	11/13/25 1600			11-14-25 0900	EVTPIT
2	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
3	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

Ver: 10/10/2024

Page 101 of 117

12/22/2025

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Raegen Elwer	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-118801-14503 3
Client Contact: Britton Hundley	Phone: 614-353-8403	E-Mail: Andy Johnson@et.eurofinsus com	State of Origin:	Page: ~~Page 3 of 4~~ 2 of 3
Company: Haley & Aldrich Inc	PWSID:			Job #:
Address: 400 Augusta Street Suite 100	Due Date Requested:			
City: Greenville	TAT Requested (days): STD			
State, Zip: SC, 29601	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 0129420-032-001-02			
Email: BHundley@haleyaldrich com	WO #: See Chain			
Project Name: CCR GW Monitoring FB Culley West	Project #: 18016014			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
D - HNO3
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)	9040C, 9056A_ORGFM_28D	2540C_Calcd - TDS by 2540C	9315_Ra226, 9320_Ra228	6020B - Metals by 6020B	7470A - Hg by 7470A	6010D - Boron by 6010D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	D	D	D		
WAP-6I-111125	11/11/25	0940	G	Water	N	N	X	X	X	X	X			
WAP-6D-111125	11/11/25	1125	G	Water	N	N	X	X	X	X	X			
WAP-7S-111225	11/12/25	1305	G	Water	N	N	X	X	X	X	X			
WAP-7D-111225	11/12/25	1140	G	Water	N	N	X	X	X	X	X			
WAP-8S-111125	11/11/25	1555	G	Water	N	N	X	X	X	X	X			
WAP-8I-111225	11/11/25	0820	G	Water	N	N	X	X	X	X	X			
WAP-8D-111225	11/12/25	0950	G	Water	N	Y	X	X	X	X	X			MS/MSD
WAP-9S-111325	11/13/25	[illegible]	G	Water	N	N	X	X	X	X	X			
WAP-9I-111325	11/13/25	1200	G	Water	N	N	X	X	X	X	X			
WAP-9D-111325	11/13/25	1010	G	Water	N	N	X	X	X	X	X			
CCR-AP-7-111325	11/13/25	1020	G	Water	N	N	X	X	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

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Raegen	11/13/25 1600			11-14-25 0900	EVETMS
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	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

Ver: 10/10/2024

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Raeger Elwer	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-118801-14503 4
Client Contact: Britton Hundley	Phone: 614-353-8403	E-Mail: Andy Johnson@et.eurofinsus com	State of Origin:	Page: ~~Page 4 of 4~~ 3 of 3
Company: Haley & Aldrich Inc	PWSID:			Job #:
Address: 400 Augusta Street Suite 100	Due Date Requested:			
City: Greenville	TAT Requested (days): STD			
State, Zip: SC, 29601	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 0129420-032-001-02			
Email: BHundley@haleyaldrich com	WO #: See Chain			
Project Name: CCR GW Monitoring FB Culley West	Project #: 18016014			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
D - HNO3
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)	9040C, 9056A_ORGFM_28D	2540C_Calcd - TDS by 2540C	9315_Ra226, 9320_Ra228	6020B - Metals by 6020B	7470A - Hg by 7470A	6010D - Boron by 6010D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	D	D	D		
DUP-1-111125	11/11/25	1130	G	Water	N	N	X	X	X	X	X	X		Field Dup.
DUP-2-111225	11/12/25	—	G	Water	N	N	X	X	X	X	X	X		Field Dup
FB-1-111325	11/13/25	0900	G	Water	N	N	X	X	X	X	X	X		Field Blank
				Water										
				Water										
				Water										
				Water										

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
	11/13/25 1600			11-14-25 0900	
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

Ver: 10/10/2024

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV
ACTWGT: 38.00 LB
CAD: 0522321/CAF

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 5.5 °C
Thermometer ID 20
CF -0.7 Initials RO

PT-WI-SR-001 effective 11/8/18

TRK# 0221 4642 5784 4523

RETURNS MON
PRIORITY OVER

FedEx
TRK# 0221 4642 5784 4523

FRI - 14 NOV
PRIORITY OVER

NP AGCA

PA-US

#6190970 11/13 5BHJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04
ACTWGT: 38.00
CAD: 0522321/

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 4.4 °C
Thermometer ID 20
CF -0.7 Initials RO

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4648

FRI - 14
PRIORITY

NP AGCA

180-198516 Waybill

#6190970 11/13 5BHJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MAN
CAD: 0522321/CAFE3953

Part # 154170-434 MTW EXP 09/25

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 5.3 °C
Thermometer ID 20
CF -0.7 Initials RO

PT-WI-SR-001 effective 11/8/18

FedEx Express

FedEx
TRK# 0221 4642 5784 4567

FRI - 14 NOV 10:3
PRIORITY OVERNIGI

NP AGCA

1523
PA-US PI

#6190970 11/13 5BHJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MAN
CAD: 0522321/CAFE3953

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7630
REF: RETURN

RMA:

Uncorrected temp 3.4 °C
Thermometer ID 20
CF -0.7 Initials RW

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4637

FRI - 14 NOV 10:30A
PRIORITY OVERNIGHT

NP AGCA

15238
PA-US PIT

#6190970 11/13 5BHJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MAI
CAD: 0522321/CAFE39

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7630
REF: RETURN

RMA:

Uncorrected temp 5.1 °C
Thermometer ID 20
CF -0.7 Initials RW

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4578

FRI - 14
PRIORITY

NP AGCA

#6190970 11/13 5BHJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MA
CAD: 0522321/CAFE3

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7630
REF: RETURN

RMA:

Uncorrected temp 5.4 °C
Thermometer ID 20
CF -0.7 Initials RW

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4545

FRI - 14 NOV 10:30A
PRIORITY OVERNIGH

NP AGCA

15238
PA-US PIT

#6190970 11/13 5BHJ2/501C/59F2

Page 10 of 117

EXP 06/26

Do not lift using t

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE:
ACTWGT: 38
CAD: 05223

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 4.8 °C
Thermometer ID 20
CF -0.7 Initials RO

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4534

FRI - 14 NO
PRIORITY OVE

NP AGCA

PA-U

#6190970 11/13 58HJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB M
CAD: 0522321/CAFE3

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 4.4 °C
Thermometer ID 20
CF -0.7 Initials RO

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4626

PRIORITY OV

NP AGCA

PA

#6190970 11/13 58HJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MAN
CAD: 0522321/CAFE3953

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 3.4 °C
Thermometer ID 20
CF -0.7 Initials RO

PT-WI-SR-001 effective 11/8/18

FedEx Express

FRI - 14 NOV 10:30A
PRIORITY OVERNIGH

FedEx
TRK# 0221 4642 5784 4556

15238
PA-US PI

NP AGCA

#6190970 11/13 58HJ2/501C/59F2

Part # 159470-434 MTW EXP 09/25

EXP 06/26

12/22/2025

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV
ACTWGT: 38.00 LB
CAD: 0522321/CAF

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 5.5 °C
Thermometer ID 20
CF -0.7 Initials RD

PT-WI-SR-001 effective 11/8/18

TRK# 0221 4642 5784 4523

RETURNS MON
PRIORITY OVER

FedEx
TRK# 0221 4642 5784 4523

FRI - 14 NOV
PRIORITY OVER

NP AGCA

PA-US

#6190970 11/13 58HJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04N
ACTWGT: 38.00
CAD: 0522321/

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 4.4 °C
Thermometer ID 20
CF -0.7 Initials RD

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4648

FRI - 14
PRIORITY

NP AGCA

180-198516 Waybill

#6190970 11/13 58HJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MAN
CAD: 0522321/CAFE3953

Part # 157-170-434 MTW EXP 09/25

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 5.3 °C
Thermometer ID 20
CF -0.7 Initials RD

PT-WI-SR-001 effective 11/8/18

FedEx Express

FedEx
TRK# 0221 4642 5784 4567

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PRIORITY OVERNIGI

NP AGCA

1523
PA-US PI

#6190970 11/13 58HJ2/501C/59F2

Page 107 of 147

12/22/2025

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MAN
CAD: 0522321/CAFE3953

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 3.4 °C
Thermometer ID 20
CF -0.1 Initials RW

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4637

FRI - 14 NOV 10:30A
PRIORITY OVERNIGHT

NP AGCA

15238
PA-US PIT

#6190970 11/13 58HJ2/501C/59F2

Page 108 of 111

FedEx
TRK# 0221 4642 5784 4545

NP AGCA

FRI - 14 NOV 10:30A
PRIORITY OVERNIGHT

15238
PA-US PIT

#6190970 11/13 58HJ2/501C/59F2

FedEx
TRK# 0221 4642 5784 4578

NP AGCA

FRI - 14
PRIORITY

#6190970 11/13 58HJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MAI
CAD: 0522321/CAFE39

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 5.1 °C
Thermometer ID 20
CF -0.1 Initials RW

PT-WI-SR-001 effective 11/8/18

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MAN
CAD: 0522321/CAFE3953

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 3.4 °C
Thermometer ID 20
CF -0.1 Initials RW

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4637

FRI - 14 NOV 10:30A
PRIORITY OVERNIGHT

NP AGCA

15238
PA-US PIT

#6190970 11/13 58HJ2/501C/59F2

Page 108 of 111

FedEx
TRK# 0221 4642 5784 4545

NP AGCA

FRI - 14 NOV 10:30A
PRIORITY OVERNIGHT

15238
PA-US PIT

#6190970 11/13 58HJ2/501C/59F2

FedEx
TRK# 0221 4642 5784 4578

NP AGCA

FRI - 14
PRIORITY

#6190970 11/13 58HJ2/501C/59F2

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ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE:
ACTWGT: 3
CAD: 0522

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 4.8 °C
Thermometer ID 20
CF -0.7 Initials RO

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4534

FRI - 14 NO
PRIORITY OVE

NP AGCA

PA-U

#6190970 11/13 58HJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB M
CAD: 0522321/CAFE3

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 4.4 °C
Thermometer ID 20
CF -0.7 Initials RO

PT-WI-SR-001 effective 11/8/18

FedEx
TRK# 0221 4642 5784 4626

PRIORITY OV

NP AGCA

PA

#6190970 11/13 58HJ2/501C/59F2

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH
CENTERPOINT ENERGY
F.B. CULLEY GENERATING STATION
3711 DARLINGTON ROAD
NEWBURGH, IN 47630
UNITED STATES US

SHIP DATE: 04NOV25
ACTWGT: 38.00 LB MAN
CAD: 0522321/CAFE3953

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7530
REF: RETURN

RMA:

Uncorrected temp 3.4 °C
Thermometer ID 20
CF -0.7 Initials RO

PT-WI-SR-001 effective 11/8/18

FedEx Express

FedEx
TRK# 0221 4642 5784 4556

FRI - 14 NOV 10:30A
PRIORITY OVERNIGHT

15238
PIT

PA-US

NP AGCA

#6190970 11/13 58HJ2/501C/59F2

Part # 159470-434 MTW EXP 09/25

2455/2105/2355

Part # 159470-435 MTW EXP 06/26

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Andy	Carrier Tracking No(s): N/A	COC No: 180-549009.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Indiana	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 180-198516-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/24/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: CCR Groundwater Monitoring FB Culley West	Project #: 18016014			
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)	9315_Ra226/PrecSep_21Radium-226 (GFPC) by 9315 (21-day decay)	9320_Ra228/PrecSep_0Radium-228 (GFPC) by 9320	Ra226Ra228_GFPCCombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAP-1-111325 (180-198516-1)	11/13/25	11:40 Eastern	G	Water			X	X	X	1	
WAP-2RR-111225 (180-198516-2)	11/12/25	14:30 Eastern	G	Water			X	X	X	2	
WAP-3S-111225 (180-198516-3)	11/12/25	08:30 Eastern	G	Water			X	X	X	2	
WAP-3D-111225 (180-198516-4)	11/12/25	09:50 Eastern	G	Water			X	X	X	2	
WAP-4S-111125 (180-198516-5)	11/11/25	09:35 Eastern	G	Water			X	X	X	2	
WAP-4I-111125 (180-198516-6)	11/11/25	11:30 Eastern	G	Water			X	X	X	2	
WAP-4I-111125 (180-198516-6DU)	11/11/25	11:30 Eastern	G	Water			X	X	X	4	
WAP-4D-111125 (180-198516-7)	11/11/25	13:40 Eastern	G	Water			X	X	X	2	
WAP-5S-111125 (180-198516-8)	11/11/25	16:35 Eastern	G	Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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 Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

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: 11/14/25 1700	Company	Received by:	Date/Time: 1045 NOV 18 2025	Company
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	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:

Ver: 10/10/2024

12/22/2025

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Andy	Carrier Tracking No(s): N/A	COC No: 180-549009.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Indiana	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 180-198516-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/24/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: CCR Groundwater Monitoring FB Culley West	Project #: 18016014			Other: N/A
Site: N/A	SSOW#: 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)	9315_Ra226/PrecSep_21Radium-226 (GFPC) by 9315 (21-day decay)	9320_Ra228/PrecSep_0Radium-228 (GFPC) by 9320	Ra226Ra228_GFPCCombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAP-5I-111125 (180-198516-9)	11/11/25	15:45 Eastern	G	Water			X	X	X	2	
WAP-5D-111125 (180-198516-10)	11/11/25	14:15 Eastern	G	Water			X	X	X	2	
WAP-6S-111325 (180-198516-11)	11/13/25	08:50 Eastern	G	Water			X	X	X	2	
WAP-6I-111125 (180-198516-12)	11/11/25	09:40 Eastern	G	Water			X	X	X	2	
WAP-6D-111125 (180-198516-13)	11/11/25	11:25 Eastern	G	Water			X	X	X	2	
WAP-7S-111225 (180-198516-14)	11/12/25	13:05 Eastern	G	Water			X	X	X	2	
WAP-7D-111225 (180-198516-15)	11/12/25	11:40 Eastern	G	Water			X	X	X	2	
WAP-8S-111125 (180-198516-16)	11/11/25	15:55 Eastern	G	Water			X	X	X	2	
WAP-8I-111125 (180-198516-17)	11/11/25	08:20 Eastern	G	Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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 Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

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: 11/17/25 1700	Company	Received by:	Date/Time: 1045 NOV 18 2025	Company	
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	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:

Ver: 10/10/2024

12/22/2025

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Andy	Carrier Tracking No(s): N/A	COC No: 180-549009.3
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Indiana	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 180-198516-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/24/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: CCR Groundwater Monitoring FB Culley West	Project #: 18016014			
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)	9315_Ra226/PrecSep_21Radium-226 (GFPC) by 9315 (21-day decay)	9320_Ra228/PrecSep_0Radium-228 (GFPC) by 9320	Ra226Ra228_GFPCCombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAP-8D-111225 (180-198516-18)	11/12/25	09:50 Eastern	G	Water			X	X	X	2	
WAP-8D-111225 (180-198516-18DU)	11/12/25	09:50 Eastern	G	Water			X	X	X	4	
WAP-9S-111325 (180-198516-19)	11/13/25	13:13 Eastern	G	Water			X	X	X	2	
WAP-9I-111325 (180-198516-20)	11/13/25	12:00 Eastern	G	Water			X	X	X	2	
WAP-9D-111325 (180-198516-21)	11/13/25	10:10 Eastern	G	Water			X	X	X	2	
CCR-AP-7-111325 (180-198516-22)	11/13/25	10:20 Eastern	G	Water			X	X	X	2	
DUP-1-111125 (180-198516-23)	11/11/25	11:30 Eastern	G	Water			X	X	X	2	
DUP-2-111225 (180-198516-24)	11/12/25	Eastern	G	Water			X	X	X	2	
FB-1-111325 (180-198516-25)	11/13/25	08:00 Eastern	G	Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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 Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

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: 11/17/25 1700	Company	Received by:	Date/Time: 1045 NOV 18 2025	Company
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	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:

Ver: 10/10/2024

12/22/2025

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Andy	Carrier Tracking No(s): N/A	COC No: 180-549009.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Indiana	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 180-198516-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/24/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: CCR Groundwater Monitoring FB Culley West	Project #: 18016014			
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)	9315_Ra226/PrecSep_21Radium-226 (GFPC) by 9315 (21-day decay)	9320_Ra228/PrecSep_0Radium-228 (GFPC) by 9320	Ra226Ra228_GFPCCombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAP-1-111325 (180-198516-1)	11/13/25	11:40 Eastern	G	Water			X	X	X	1	
WAP-2RR-111225 (180-198516-2)	11/12/25	14:30 Eastern	G	Water			X	X	X	2	
WAP-3S-111225 (180-198516-3)	11/12/25	08:30 Eastern	G	Water			X	X	X	2	
WAP-3D-111225 (180-198516-4)	11/12/25	09:50 Eastern	G	Water			X	X	X	2	
WAP-4S-111125 (180-198516-5)	11/11/25	09:35 Eastern	G	Water			X	X	X	2	
WAP-4I-111125 (180-198516-6)	11/11/25	11:30 Eastern	G	Water			X	X	X	2	
WAP-4I-111125 (180-198516-6DU)	11/11/25	11:30 Eastern	G	Water			X	X	X	4	
WAP-4D-111125 (180-198516-7)	11/11/25	13:40 Eastern	G	Water			X	X	X	2	
WAP-5S-111125 (180-198516-8)	11/11/25	16:35 Eastern	G	Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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 Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

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: 11/17/25 1700	Company	Received by:	Date/Time: 1045 NOV 18 2025	Company
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	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:

Ver: 10/10/2024

12/22/2025

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Andy	Carrier Tracking No(s): N/A	COC No: 180-549009.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Indiana	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 180-198516-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/24/2025			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: CCR Groundwater Monitoring FB Culley West	Project #: 18016014			
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)	9315_Ra226/PrecSep_21Radium-226 (GFPC) by 9315 (21-day decay)	9320_Ra228/PrecSep_0Radium-228 (GFPC) by 9320	Ra226Ra228_GFPCCombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAP-5I-111125 (180-198516-9)	11/11/25	15:45 Eastern	G	Water			X	X	X	2	
WAP-5D-111125 (180-198516-10)	11/11/25	14:15 Eastern	G	Water			X	X	X	2	
WAP-6S-111325 (180-198516-11)	11/13/25	08:50 Eastern	G	Water			X	X	X	2	
WAP-6I-111125 (180-198516-12)	11/11/25	09:40 Eastern	G	Water			X	X	X	2	
WAP-6D-111125 (180-198516-13)	11/11/25	11:25 Eastern	G	Water			X	X	X	2	
WAP-7S-111225 (180-198516-14)	11/12/25	13:05 Eastern	G	Water			X	X	X	2	
WAP-7D-111225 (180-198516-15)	11/12/25	11:40 Eastern	G	Water			X	X	X	2	
WAP-8S-111125 (180-198516-16)	11/11/25	15:55 Eastern	G	Water			X	X	X	2	
WAP-8I-111125 (180-198516-17)	11/11/25	08:20 Eastern	G	Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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 Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

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: 11/12/25 1700	Company	Received by:	Date/Time: 104S NOV 18 2025	Company	
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	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:	

Ver: 10/10/2024

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Johnson, Andy	Carrier Tracking No(s): N/A	COC No: 180-549009.3
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Indiana	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): N/A		Job #: 180-198516-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/24/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: CCR Groundwater Monitoring FB Culley West	Project #: 18016014			Other: N/A
Site: N/A	SSOW#: 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)	9315_Ra226/PrecSep_21Radium-226 (GFPC) by 9315 (21-day decay)	9320_Ra228/PrecSep_0Radium-228 (GFPC) by 9320	Ra226Ra228_GFPCCombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAP-8D-111225 (180-198516-18)	11/12/25	09:50 Eastern	G	Water			X	X	X	2	
WAP-8D-111225 (180-198516-18DU)	11/12/25	09:50 Eastern	G	Water			X	X	X	4	
WAP-9S-111325 (180-198516-19)	11/13/25	13:13 Eastern	G	Water			X	X	X	2	
WAP-9I-111325 (180-198516-20)	11/13/25	12:00 Eastern	G	Water			X	X	X	2	
WAP-9D-111325 (180-198516-21)	11/13/25	10:10 Eastern	G	Water			X	X	X	2	
CCR-AP-7-111325 (180-198516-22)	11/13/25	10:20 Eastern	G	Water			X	X	X	2	
DUP-1-111125 (180-198516-23)	11/11/25	11:30 Eastern	G	Water			X	X	X	2	
DUP-2-111225 (180-198516-24)	11/12/25	Eastern	G	Water			X	X	X	2	
FB-1-111325 (180-198516-25)	11/13/25	08:00 Eastern	G	Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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 Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

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: 11/17/25 1700	Company	Received by:	Date/Time: 1045 NOV 18 2025	Company
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	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:

Ver: 10/10/2024

12/22/2025

Login Sample Receipt Checklist

Client: Haley & Aldrich Inc

Job Number: 180-198516-1
SDG Number: FB Culley West

Login Number: 198516
List Number: 1
Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

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	
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	
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.

Login Sample Receipt Checklist

Client: Haley & Aldrich Inc

Job Number: 180-198516-1
SDG Number: FB Culley West

Login Number: 198516
List Number: 3
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 11/18/25 12:58 PM

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.	N/A	
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?	N/A	
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").	N/A	
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.