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VIA E-MAIL: dierich.andrea@epa.gov

September 30, 2026

Andrea Dierich
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US EPA, Region 5
77 W Jackson Blvd
Chicago, IL 60604

RE: CCR Surface Impoundments
Addendum to Nature and Extent Report September 2026

Dear Ms. Dierich:

In accordance with USEPA comments received by CWLP on August 11, 2026, provided herein is an addendum to the Nature and Extent Report for the CCR Surface Impoundments that was originally submitted on September 23, 2025. Specifically, this addendum provides additional information from the relevant portions of the Agreement to Resolve investigations completed in July 2026.

Should you have any questions or require additional information, please contact me at 217-757-8610 ext. 1110.

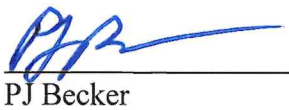
Sincerely,

PJ Becker
Environmental Health and Safety Manager

Certification of City Water, Light and Power

City of Springfield, Office of Public Utilities, d/b/a City Water, Light and Power provides the following certification as required by paragraph 300 of the Consent Agreement and Final Order effective January 14, 2025.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 
Name: PJ Becker
Title: Environmental Health and Safety Manager
Date: 9/30/2026

City Water, Light & Power
Springfield, Illinois

CWLP CCR Surface Impoundments Addendum to the September 2025 Nature and Extent Report

40 CFR § 257.95 (g)

September 2026

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EXECUTIVE SUMMARY

This Addendum supplements the September 2025 *Nature and Extent Report* for the Dallman and Lakeside Coal Combustion Residual (CCR) Surface Impoundments. Its purpose is to incorporate information collected pursuant to the Agreement to Resolve (AOR), address comments received from the U.S. Environmental Protection Agency (EPA) on August 11, 2026, and update the characterization of arsenic occurrence, distribution, and potential migration from CCR source areas.

The AOR investigation included advancement of additional borings; installation of monitoring wells AW4, AW5, AW6, and AP17; collection of groundwater elevation and quality data; and refinement of hydrogeologic interpretations. Historical groundwater monitoring data and information generated during the AOR investigation were evaluated to update the conceptual site model, groundwater flow interpretations, arsenic plume delineation, and arsenic release calculations. The resulting evaluation refines the hydrogeologic conceptual site model presented in the June 2025 *Nature and Extent Report*, the September 2025 *Updated Nature and Extent Report*, and the September 2025 *Flow Path Report*.

The additional investigation refined the understanding of several hydrogeologic features identified during EPA's review of previous submittals. Available hydrogeologic data indicate that the shallow sand unit is a potential groundwater migration pathway where saturated and hydraulically connected conditions exist. The shallow sand unit has been incorporated into the conceptual site model and the evaluation of potential contaminant migration. Hydrostratigraphic mapping and geologic cross-sections indicate that the unit remains limited in thickness, lateral extent, and overall areal distribution across much of the Site. Although portions of the shallow sand unit may be hydraulically connected to adjacent groundwater-bearing intervals, the unit does not form a laterally continuous groundwater-bearing zone beneath or surrounding the CCR units. While the shallow sand unit may facilitate localized groundwater migration in certain areas, groundwater monitoring data indicate that arsenic impacts remain primarily associated with the basal sand/weathered-bedrock aquifer.

The investigation also provided additional information regarding the former creek alignment east of the Dallman Ash Pond. Portions of the former creek channel contain soft alluvial and fill materials associated with adjacent groundwater-bearing intervals and saturated sand deposits capable of transmitting groundwater more readily than adjacent cohesive deposits. Consequently, portions of the former creek channel are considered potential localized groundwater flow and preferential migration pathways and have been incorporated into the conceptual site model. These features may have contributed to groundwater and constituent migration from hydraulically upgradient CCR source areas where favorable hydraulic connections exist.

Groundwater monitoring data continue to demonstrate the presence of arsenic within the basal sand/weathered-bedrock aquifer. The occurrence of arsenic within this hydrostratigraphic interval, when evaluated together with hydraulic and hydrogeologic information, supports hydraulic communication between CCR source areas and the uppermost aquifer. The available data support a conceptual model in which arsenic migration to the basal sand/weathered-bedrock aquifer likely results from long-term downward migration under sustained hydraulic gradients associated with nearly five decades of CCR management activities, potentially enhanced by localized groundwater migration pathways associated with the shallow sand unit and portions of the former creek channel where favorable hydraulic conditions exist. While the additional investigation improves understanding of potential migration pathways, the available data do not identify a single discrete migration pathway that accounts for all observed groundwater impacts.

Groundwater monitoring results collected under the AOR were incorporated into an evaluation of arsenic distribution at the Site. The expanded monitoring network improves spatial coverage and provides additional confidence in the delineation of the arsenic plume. GWSDAT analyses indicate that arsenic impacts remain primarily associated with groundwater within the basal sand/weathered-bedrock aquifer. Incorporation of the AOR monitoring locations improved delineation of plume boundaries and refined the understanding of arsenic migration pathways. Although the overall plume configuration remains generally consistent with historical groundwater monitoring observations, temporal variability is evident in plume area, concentration distributions, and normalized dissolved plume mass. The additional data supports refinement of the conceptual site model and groundwater release characterization.

Arsenic release calculations were completed using the expanded groundwater monitoring dataset and revised plume interpretation developed from the AOR investigation. Differences between the 2025 and 2026 estimates primarily reflect improved delineation of plume boundaries and concentration distributions resulting from additional monitoring data rather than evidence of a substantial change in release conditions. Collectively, the AOR investigation addresses EPA's concerns regarding the hydrogeologic significance of the shallow sand unit, the former creek channel, and hydraulic communication between CCR source areas and the uppermost aquifer while improving confidence in the delineation of the arsenic plume.

Principal Findings

- The additional AOR investigation refined the hydrogeologic conceptual site model and improved understanding of groundwater migration pathways.
- The shallow sand unit is recognized as a potential groundwater migration pathway where saturated and hydraulically connected conditions exist.
- Portions of the former creek channel may function as localized groundwater flow and preferential migration pathways.

- Groundwater quality, hydraulic, and hydrogeologic information supports hydraulic communication between CCR source areas and the basal sand/weathered-bedrock interval.
- Available data support a conceptual model involving long-term downward migration under sustained hydraulic gradients, potentially enhanced by localized preferential pathways.
- Additional monitoring wells improved delineation of arsenic plume boundaries and reduced uncertainty in plume geometry.
- Arsenic concentrations above the groundwater protection standard (GWPS) remain primarily associated with monitoring locations completed within the basal sand/weathered-bedrock interval.
- Arsenic release calculations reflect improved plume delineation and enhanced characterization resulting from additional monitoring locations.
- The AOR investigation refined delineation and characterization of the arsenic release and improved confidence in the interpretation of its nature and extent.

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1. INTRODUCTION

1.1 Background

City Water, Light, and Power (CWLP) submitted the September 2025 *Nature and Extent Report* to document the occurrence and distribution of groundwater impacts associated with the Dallman Ash Pond (DAP) and Lakeside Ash Pond (LAP) coal combustion residual (CCR) units and to evaluate potential relationships between those groundwater conditions and the CCR units. The DAP and LAP CCR units are located at the CWLP generating station site in Springfield, Illinois (Figure 1). The report evaluated available groundwater monitoring, hydrogeologic, and analytical data and presented the conceptual understanding of the nature and extent of arsenic impacts within the uppermost aquifer.

Following its review of the *Nature and Extent Report* and associated CCR corrective action documents, EPA issued comments on August 11, 2026, requesting additional evaluation of groundwater migration pathways, incorporation of newly collected hydrogeologic information, and preparation of an addendum. EPA specifically requested additional evaluation of the shallow sand unit, former creek alignment and fill areas, hydraulic communication between the CCR units and the uppermost aquifer, information generated pursuant to the Agreement to Resolve (AOR), arsenic release characterization and calculations, and groundwater contamination plume maps. This Addendum was prepared to address those comments and incorporate the results of additional investigation completed since submittal of the September 2025 *Nature and Extent Report*.

Since issuance of the September 2025 report, CWLP has completed additional hydrogeologic investigation and groundwater monitoring activities pursuant to the AOR. The resulting information has been incorporated into this Addendum and evaluated together with historical groundwater monitoring data to refine groundwater flow interpretations, the conceptual site model, arsenic plume delineation, and arsenic release estimates. The evaluation refines the hydrogeologic conceptual site model previously developed for the Site by incorporating additional information regarding groundwater migration pathways, hydraulic communication between hydrostratigraphic units, and the distribution of arsenic impacts within the uppermost aquifer. Consistent with EPA's comments, the revised evaluation considers the shallow sand unit and portions of the former creek alignment as potential groundwater migration pathways where favorable hydraulic conditions exist and reevaluates their relevance to arsenic migration and plume development.

1.2 Objectives

The objectives of this Addendum are to present the results of the investigation completed pursuant to the AOR and evaluate how the additional information affects the conceptual understanding of groundwater impacts associated with the CCR units. Specifically, this Addendum:

- Presents new groundwater monitoring and flow-path information collected pursuant to the AOR.
- Updates the conceptual site model to incorporate additional hydrogeologic information.
- Evaluates the hydrogeologic significance of the shallow sand unit and former creek alignment as potential groundwater migration pathways.
- Evaluates groundwater migration pathways and hydraulic communication between the CCR units and the uppermost aquifer.
- Reevaluates the nature and extent of arsenic in groundwater and its potential relationship to CCR source areas.
- Updates arsenic release calculations using the expanded monitoring dataset.
- Presents groundwater plume maps developed using historical and newly collected groundwater monitoring data.
- Assesses whether the additional information materially changes previous interpretations regarding groundwater impacts, plume geometry, and arsenic occurrence within the uppermost aquifer.

The evaluation presented herein focuses on arsenic because it is the Appendix IV constituent currently defining the groundwater impact area associated with the DAP and LAP CCR units. Arsenic was specifically identified by EPA for additional evaluation as part of the requested Nature and Extent Addendum and remains the primary constituent used to evaluate the nature and extent of groundwater impacts associated with the CCR units.

2. SUMMARY OF AGREEMENT TO RESOLVE INVESTIGATION

2.1 Investigation Activities

Additional investigation was completed pursuant to the AOR to further evaluate groundwater conditions, groundwater migration pathways, hydraulic communication between the CCR units and the uppermost aquifer, and the distribution of arsenic impacts associated with the DAP and LAP CCR units. The investigation was designed to address issues identified by EPA during its review of the September 2025 *Nature and Extent Report* and *Flow Path Report*, including the hydrogeologic significance of the shallow sand unit, the former creek alignment and fill area east

of the Dallman Ash Pond, hydraulic communication between hydrostratigraphic units, and delineation of arsenic impacts downgradient of the Dallman Ash Pond.

2.1.1 Borings Completed

An additional subsurface investigation was completed to provide hydrogeologic information in areas identified during the EPA's review and to support the installation of new monitoring locations. The investigation program included advancement of AW-series borings (AW4, AW5, and AW6) and an AP-series boring (AP17).

Information obtained from these borings was used to refine site stratigraphic interpretations; evaluate groundwater conditions, potential groundwater migration pathways, and hydrogeologic conditions associated with the shallow sand unit and former creek alignment; and support development of geologic cross-sections, hydrostratigraphic mapping, and groundwater flow-path interpretations. The borings also provided additional information regarding hydraulic communication between CCR source areas and the uppermost aquifer. Boring logs completed during the AOR investigation are provided in Appendix A.

2.1.2 Monitoring Wells Installed

Additional groundwater monitoring wells were installed to improve delineation of groundwater conditions and arsenic impacts in areas where existing monitoring coverage was limited. The wells also provide additional hydrogeologic and groundwater quality information in areas identified by EPA as requiring further evaluation.

The AW-series and AP-series monitoring locations were installed to improve understanding of groundwater conditions downgradient of the Dallman Ash Pond, evaluate potential groundwater migration pathways associated with the shallow sand unit and former creek alignment, assess hydraulic communication between the CCR units and the uppermost aquifer, and improve delineation of arsenic impacts within the uppermost aquifer. Monitoring well locations are shown on Figure 2 and construction details are provided in Appendix B.

As agreed in the AOR, the new monitoring wells were sampled during the second- and third-quarter 2026 groundwater monitoring events.

2.1.3 Groundwater Monitoring

Groundwater monitoring was completed following installation and development of the new monitoring wells. Monitoring activities included:

- Collection of groundwater samples from new and existing monitoring wells;
- Analysis of groundwater samples for arsenic and other site monitoring parameters;

- Measurement of groundwater elevations; and
- Incorporation of the resulting data into the site groundwater monitoring database.

The expanded groundwater monitoring dataset was used to update groundwater flow interpretations, evaluate arsenic concentrations within the uppermost aquifer, assess hydraulic communication between the CCR source areas and the basal sand/weathered-bedrock aquifer, refine understanding of potential groundwater migration pathways associated with the shallow sand unit and former creek alignment, develop plume maps, and support the nature and extent evaluation presented in this Addendum. Groundwater analytical results generated during the monitoring program are provided in Appendix C.

3. HYDROGEOLOGIC INTERPRETATION

3.1 Shallow Sand Unit

Additional hydrogeologic information collected under the AOR was evaluated together with historical boring logs, monitoring well data, and geologic cross-sections to reassess the distribution and hydraulic significance of the shallow sand unit. The shallow sand unit occurs as a discontinuous geologic feature within the upper portion of the alluvial sequence and exhibits variable thickness and lateral continuity across the Site. Available boring logs and cross-sections indicate that the unit is not laterally extensive and is absent in significant portions of the study area. Revised geologic cross-section G-G' and new cross-sections Q-Q' and R-R', which illustrate hydrostratigraphic conditions at the new AW and AP borings, are presented in Appendix D.

The distribution of the shallow sand unit was further evaluated using hydrostratigraphic isopach mapping completed as part of the *Flow Path Report* investigation. Hydrostratigraphic structure contour and isopach maps originally developed for the September 2025 *Flow Path Report* were updated to incorporate boring information from AW4, AW5, AW6, and AP17. The revised mapping confirms the previously interpreted extent of the shallow sand unit and does not materially alter the conceptual understanding of its distribution beneath the Site. Shallow Sand Surface and Shallow Sand Isopach maps are included in Appendix E. The isopach mapping indicates that the shallow sand unit is discontinuous and exhibits limited thickness and lateral extent across much of the Site. The mapped distribution supports the interpretation that the shallow sand occurs as isolated to semi-continuous depositional features rather than a laterally extensive aquifer unit. The isopach maps also provide a basis for evaluating areas where saturated shallow sand may be hydraulically connected to adjacent groundwater-bearing units and therefore capable of transmitting groundwater and dissolved constituents.

Groundwater monitoring and subsurface investigations indicate that portions of the shallow sand unit are saturated and hydraulically connected to adjacent unconsolidated deposits. Installation of monitoring wells AP15S and AP15D confirmed the presence of a saturated shallow sand

interval west of Lakeside Ash Pond and provided additional information regarding hydraulic relationships between the shallow sand unit and the underlying basal sand aquifer. Where saturated conditions and hydraulic connectivity exist, the shallow sand unit has the potential to transmit groundwater and dissolved constituents and, therefore, is recognized as a potential groundwater migration pathway. Available hydrogeologic data indicate that hydraulic connectivity exists within portions of the shallow sand unit, and those portions have been incorporated into the conceptual site model as groundwater migration pathways. While localized hydraulic connectivity has been identified, the mapped distribution indicates that the shallow sand unit remains limited in overall areal extent and occurs as discontinuous depositional features rather than a regionally continuous aquifer. Consequently, any groundwater migration associated with the shallow sand unit is expected to be localized to areas where saturated and hydraulically connected conditions exist.

The additional monitoring wells installed pursuant to the AOR provide improved spatial control in areas where the shallow sand unit is present. These data support recognition of the shallow sand as a localized groundwater migration pathway while also indicating that groundwater impacts associated with the arsenic plume remain principally associated with the basal sand/weathered-bedrock aquifer.

3.2 Former Creek Channel / Fill Area

Historical boring logs, recent AOR borings, geologic cross-sections, and hydrostratigraphic isopach mapping were reviewed to evaluate the former creek alignment along the eastern side of the Dallman Ash Pond. The combined data indicate that portions of the former channel contain soft alluvial and fill materials that differ from the surrounding fine-grained deposits. Historical boring logs P-01D and P-02D, as well as more recent borings B-4 and B-8U, indicate that the clay/fill intervals were generally described as moist or wet rather than saturated. While the boring logs do not consistently characterize the fill materials themselves as saturated, the data indicate the presence of groundwater-bearing intervals and saturated sand deposits adjacent to and beneath portions of the former channel area. These conditions suggest that the former creek corridor may locally influence groundwater movement and contaminant migration. The distribution of these materials generally follows the mapped alignment of the former creek channel and is consistent with observations documented in both historical and recent borings. Supporting boring logs and subsurface information are provided in Appendix A.

Site development activities associated with construction of the surface impoundments likely altered portions of the original creek channel through excavation and placement of engineered fill materials beneath embankment structures. Consequently, the available information does not support interpretation of a continuous preferential pathway beneath the Site. However, portions of the former creek alignment that were not excavated or substantially modified may retain hydraulically conductive alluvial materials capable of transmitting groundwater more readily than

adjacent cohesive deposits. Although the boring logs do not consistently document saturated conditions within the clay/fill materials themselves, the occurrence of adjacent saturated sands, groundwater-bearing intervals, and low-strength alluvial deposits indicates that portions of the former creek alignment may provide localized hydraulic connectivity relative to the surrounding cohesive deposits.

The available data support the interpretation that portions of the former creek alignment along the eastern margin of the Dallman Ash Pond may function as localized groundwater flow paths and preferential migration pathways. Groundwater monitoring and subsurface information indicate that these materials may provide localized hydraulic communication between the CCR source area and underlying groundwater-bearing units and, therefore, represent an important component of the conceptual site model.

Hydrostratigraphic structure contour and isopach maps (Appendix E) demonstrate that incorporating the AOR boring information generally corroborates the hydrogeologic framework developed for the September 2025 *Flow Path Report* while refining interpretations of localized hydrostratigraphic variability relevant to groundwater migration pathways. The figures depict the upper cohesive deposit surface and thickness, lower cohesive deposit surface and thickness, basal sand surface and thickness, and bedrock surface. These figures have been revised to incorporate information obtained from the new borings.

Geologic contacts encountered in the AOR borings were generally consistent with those documented in adjacent historical borings. As a result, incorporation of the new drilling information did not materially modify previously interpreted hydrostratigraphic surfaces, unit thicknesses, or depositional relationships. The mapping, therefore, confirms the hydrogeologic framework developed for the September 2025 *Flow Path Report* while providing additional confidence in the interpreted horizontal and vertical extent of the principal hydrostratigraphic units.

Historical boring logs, including P02D, together with the recent AOR investigation, indicate that portions of the former creek corridor contain soft alluvial and fill materials associated with adjacent groundwater-bearing intervals. These observations support consideration of the former creek alignment as a potential preferential groundwater migration pathway in portions of the Site where hydraulic connectivity exists.

3.3 Hydraulic Communication to the Basal Sand Aquifer

Groundwater monitoring data collected since initiation of assessment monitoring continue to document arsenic within the basal sand and weathered-bedrock interval that comprises the uppermost aquifer beneath the CCR units. Arsenic concentrations above the groundwater protection standard have been documented in multiple monitoring wells completed within this interval, including historical and recently installed monitoring locations.

The occurrence of arsenic within the uppermost aquifer indicates that constituent migration from CCR source areas has occurred. Groundwater impacts within the basal sand and weathered-bedrock interval are consistent with the long operational history of the CCR units and the downward hydraulic gradients identified beneath the surface impoundments. The Dallman and Lakeside surface impoundments have been present since approximately 1976, resulting in nearly five decades of potential source loading. Under sustained downward gradients, long-term vertical migration through lower-permeability deposits provides a plausible mechanism for constituent transport to the uppermost aquifer.

Groundwater monitoring results indicate that arsenic is present in wells located along the western, northern, and eastern portions of the Dallman Ash Pond area. The presence of arsenic within wells completed in the basal sand and weathered-bedrock interval supports hydraulic communication between the CCR source areas and the uppermost aquifer. Collectively, groundwater quality, hydraulic, and hydrogeologic observations support hydraulic communication between CCR source areas and the uppermost aquifer and indicate that one or more groundwater migration mechanisms represented in the conceptual site model are operative at the Site.

For purposes of the Nature and Extent evaluation, the interpreted groundwater migration pathway represents the inferred route through which groundwater and dissolved constituents may migrate from CCR source areas to and through the uppermost aquifer. The pathway may include long-term downward migration through lower-permeability deposits, together with localized preferential migration through saturated creek-fill materials, shallow sand, portions of the former creek alignment, basal sand, and hydraulically connected weathered materials near the bedrock interface. The occurrence, thickness, continuity, and relative hydraulic contribution of these materials vary across the Site.

Groundwater elevation data collected throughout the monitoring period indicate that the regional groundwater flow regime is modified by localized hydraulic controls at the Site. Potentiometric surface evaluations consistently indicate the presence of a groundwater trough associated with the Flue Gas Desulfurization System (FGDS) disposal area, which induces an eastward groundwater-flow component from portions of the Dallman Ash Pond area toward the FGDS area. In addition, Sugar Creek functions as a local groundwater convergence feature and exerts hydraulic control along portions of the northern and western site boundaries. These hydraulic features appear to influence groundwater migration within the uppermost aquifer and represent important components of the conceptual site model.

The available data do not identify a single discrete pathway that accounts for all observed groundwater impacts. Likewise, the presence of arsenic within the basal sand and weathered-bedrock interval does not require a single, uninterrupted preferential pathway extending directly from the bottom of the surface impoundments to the uppermost aquifer. Rather, the available

evidence is consistent with a conceptual model (Figure 3) involving long-term downward migration through lower-permeability deposits under sustained hydraulic gradients, potentially supplemented by localized preferential migration through portions of the shallow sand and former creek corridor where hydraulic connectivity exists.

Once constituents reach the uppermost aquifer, groundwater and dissolved constituents may move laterally through the interconnected groundwater-bearing materials comprising the interpreted groundwater migration pathway. Depending on location, these materials include creek-fill deposits, shallow sand, basal sand, and hydraulically connected weathered materials near the bedrock interface. The geologic cross-sections and isopach drawings support interpretation of the basal sand and weathered-bedrock interval as an important groundwater-bearing component of this pathway beneath the Site.

The occurrence of arsenic within the uppermost aquifer supports hydraulic communication between CCR source areas and the groundwater-bearing basal sand/weathered-bedrock interval. This conclusion refines previous interpretations regarding the degree of hydraulic separation between the CCR units and the uppermost aquifer and incorporates the additional information collected during the AOR investigation. The AOR investigation and hydrogeologic evaluation indicate that groundwater impacts observed within the basal sand/weathered-bedrock aquifer are consistent with long-term migration from CCR source areas under sustained downward hydraulic gradients. Available data further indicate that localized migration may be enhanced by hydrogeologic features such as the shallow sand unit and portions of the former creek alignment where favorable hydraulic conditions exist. Collectively, the available information supports a conceptual model in which constituent migration reflects a combination of long-term downward migration through lower-permeability deposits and localized preferential migration through more permeable hydrogeologic features, rather than movement through a single discrete or uniformly continuous pathway. This interpretation addresses EPA comments regarding hydraulic communication, groundwater migration pathways, and the occurrence of arsenic within the uppermost aquifer.

4. GROUNDWATER MONITORING RESULTS

4.1 Groundwater Elevations

Groundwater elevation data collected during the AOR investigation were incorporated into a potentiometric surface evaluation of the uppermost aquifer. The dataset includes water-level measurements obtained from newly installed monitoring wells AW4, AW5, AW6, AP15D, AP15S, AP16, and AP17, in addition to the existing monitoring network. Groundwater elevation measurements collected between November 2025 and July 2026 are summarized in Table 1 and provide a basis for evaluating groundwater flow conditions and hydraulic relationships among

hydrostratigraphic units during the AOR investigation. July 2026 groundwater elevations were used to prepare the potentiometric surface map presented in Figure 4.

Groundwater elevations summarized in Table 1 indicate generally consistent groundwater conditions over the monitoring period and support interpretation of a stable groundwater flow regime within the uppermost aquifer. Groundwater movement within the basal sand/weathered-bedrock aquifer remains generally controlled by regional topography and convergence toward Sugar Creek. However, potentiometric surface maps consistently indicate the presence of a localized groundwater trough associated with the FGDS Development Unit 2 area that modifies the regional flow regime and induces an eastward component of groundwater flow from portions of the Dallman Ash Pond area toward the FGDS area.

Groundwater elevations further indicate convergence toward Sugar Creek from both the east and west, supporting interpretation of Sugar Creek as a local groundwater convergence feature. The persistence of these groundwater flow characteristics throughout the monitoring period suggests that localized hydraulic controls associated with the FGDS Development Unit 2 area and Sugar Creek continue to influence groundwater movement and arsenic plume geometry within the uppermost aquifer.

The additional monitoring locations installed pursuant to the AOR provide improved water-level control in areas identified by EPA for further evaluation, including the shallow sand unit and former creek alignment. These data improve understanding of groundwater migration pathways, hydraulic communication between the CCR source areas and the uppermost aquifer, and the hydrogeologic conditions influencing arsenic occurrence and migration.

Overall, the groundwater elevation dataset supports and refines the conceptual site model presented in the September 2025 *Nature and Extent Report* and provides additional confidence regarding groundwater flow directions, hydraulic relationships between monitored hydrostratigraphic units, and migration pathways incorporated into the conceptual site model.

4.2 Arsenic Results

Groundwater samples collected during the AOR investigation were analyzed for arsenic, and the results were incorporated into the site groundwater monitoring database. The new monitoring locations provide additional information regarding arsenic concentrations in areas where plume boundaries and potential migration pathways require further evaluation. Arsenic concentrations detected in the newly installed monitoring wells are summarized in Table 2. Arsenic was detected in all AOR monitoring wells, with the highest concentrations occurring at AW6 and concentrations near or below the groundwater protection standard occurring at AW4, AW5, and AP17. These results provide additional information regarding arsenic distribution downgradient of the Dallman Ash Pond and improve delineation of plume geometry within the uppermost aquifer.

Complete groundwater analytical data are provided in Appendix C. Arsenic concentrations detected in AW4, AW5, AW6, and AP17 generally fall within the range of concentrations previously observed in downgradient monitoring locations and are consistent with the existing conceptual understanding of plume distribution.

Among the newly installed monitoring locations, the highest arsenic concentrations were observed at AW6, while lower concentrations were observed at AW4, AW5, and AP17. The occurrence of arsenic in these locations is consistent with previously documented impacts within the basal sand/weathered-bedrock aquifer and supports interpretation of hydraulic communication between CCR source areas and the uppermost aquifer. The concentrations detected at these wells generally corroborate previously interpreted plume geometry while providing additional control on plume margins and improved delineation of arsenic impacts downgradient of the DAP.

The dataset was incorporated into the GWSDAT evaluation and plume mapping presented later in this Addendum. The additional analytical data improve confidence in plume interpretation, provide a more complete characterization of arsenic distribution within the uppermost aquifer, and improve understanding of groundwater migration pathways and plume geometry in areas previously characterized by greater uncertainty.

4.3 Data Evaluation

The AOR monitoring wells were installed to improve understanding of groundwater conditions in areas where additional information was needed to evaluate groundwater migration pathways, assess hydraulic communication, and refine delineation of arsenic impacts. Data obtained from AW4, AW5, AW6, and AP17, together with other AOR investigation results, provide improved spatial coverage between existing monitoring locations and allow a more detailed evaluation of groundwater quality conditions near the DAP.

The additional data support the interpretation that arsenic impacts remain primarily associated with groundwater within the basal sand/weathered-bedrock aquifer. The new monitoring locations also provide information relevant to the evaluation of the shallow sand unit and former creek alignment discussed in Section 3. While these data improve understanding of groundwater migration pathways and hydraulic communication, they do not indicate previously unidentified, widespread arsenic impacts beyond the plume boundaries interpreted in the September 2025 *Nature and Extent Report*. Rather, the results improve confidence in the previously interpreted nature and extent of groundwater impacts while reducing uncertainty regarding plume boundaries and migration pathways.

The expanded monitoring network reduces uncertainty regarding plume geometry and improves delineation of the arsenic plume for groundwater mapping and release calculations. Incorporating the new data into the GWSDAT analysis refined plume contours and associated plume metrics and improved understanding of migration pathways and the distribution of arsenic impacts within the uppermost aquifer.

5. NATURE AND EXTENT OF ARSENIC IMPACTS

5.1 GWSDAT Evaluation

The GroundWater Spatiotemporal Data Analysis Tool (GWSDAT) is a widely used, peer-reviewed groundwater monitoring data evaluation tool that has been applied to plume characterization, plume stability assessment, monitoring network optimization, and site closure evaluations. The methodology has been described in peer-reviewed publications and has been the subject of EPA-sponsored technical training through the CLU-IN program[1].

Groundwater arsenic data were evaluated using GWSDAT, which applies spatiotemporal smoothing and regression techniques to groundwater monitoring data to generate continuous concentration surfaces, evaluate plume behavior through time, and calculate diagnostic plume metrics including plume area, average plume concentration, and normalized plume mass[2]. The evaluation incorporated historical groundwater monitoring data together with data obtained from monitoring wells installed pursuant to the AOR, including AW4, AW5, AW6, and AP17. The dataset included groundwater analytical results, monitoring well coordinates, and groundwater elevation information from 2016 through July 2026. GWSDAT input data and output files are provided in Appendix F. Documentation for the GWSDAT groundwater monitoring data evaluation tool is provided in Appendix G.

GWSDAT analyses were completed using laboratory-reported analytical values. Non-detect results were retained as reported in the dataset and were not adjusted through substitution of reporting limits or fractions of reporting limits. Accordingly, calculated plume metrics reflect the monitored groundwater dataset without the introduction of additional conservatism associated with non-detect substitution methods.

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[1] U.S. Environmental Protection Agency (USEPA), CLU-IN. *Plume Stability Analyses with GWSDAT*. CLU-IN Technical Webinar, sponsored by USEPA Region 9. Available at: https://clu-in.org/conf/tio/GWSDAT/ (accessed September 2026).

[2] Jones, W.R., Spence, M.J., and Bonte, M. (2015). *Analyzing Groundwater Quality Data and Contamination Plumes with GWSDAT*. Groundwater, 53(4), 513-514. https://doi.org/10.1111/gwat.12340.

The evolution of the arsenic plume is depicted in the output file included in Appendix F. GWSDAT reports dissolved plume mass as kilograms per foot (kg/ft), representing contaminant mass normalized to saturated plume thickness. Consequently, plume mass values provide a consistent basis for evaluating relative changes in plume magnitude and plume behavior through time.

GWSDAT plume statistics were calculated using an arsenic threshold concentration of 23.9 µg/L corresponding to the arsenic groundwater protection standard (GWPS). The effective porosity value is based on published saturation water content data for sandy materials reported by Sharp-Hansen et al., which indicate a representative range of approximately 37 to 49 percent. The mean value of 43 percent was adopted as representative of the basal sand/weathered-bedrock aquifer for purposes of plume metric evaluation. Use of the 23.9 µg/L threshold concentration is consistent with the arsenic groundwater protection standard and provides a consistent basis for evaluating changes in the delineated plume through time.

GWSDAT results indicate that the delineated arsenic plume remains localized and generally consistent with historical groundwater monitoring observations, although temporal variability is evident in plume area, concentration distributions, and normalized dissolved plume mass (Figure 5). Observed fluctuations likely reflect a combination of changes in groundwater conditions, monitoring density, sampling frequency, and interpolation associated with expansion of the monitoring network. Incorporation of the AOR monitoring locations improves confidence in plume delineation and provides a more robust characterization of plume geometry and concentration distributions. The evaluation provides a more refined understanding of plume geometry, plume boundaries, and concentration distributions through incorporation of the AOR monitoring locations and the expanded 2026 analytical dataset. Resulting plume metrics are shown on the figures in Appendix F. The GWSDAT evaluation provides additional quantitative support for characterization of plume geometry, arsenic distribution, and groundwater migration patterns and serves as the basis for the revised nature and extent interpretation presented in this Addendum. Recent applications of GWSDAT have demonstrated its utility for plume characterization, plume stability assessment, evaluation of monitoring network adequacy, groundwater trend analysis, and support of regulatory decision-making at contaminated groundwater sites.[3] The GWSDAT results provide additional information for evaluating the extent of groundwater impacts identified through the AOR investigation and support refinement of the conceptual site model and plume characterization requested by EPA.

Groundwater plume delineation may also be performed using conventional spatial interpolation methods, such as kriging, applied to analytical results from a single groundwater monitoring event (Figure 6). While such methods are useful for visualizing groundwater conditions during a specific

[3] Jones, W.R., Rock, L., Wesch, A., Marzusch, E., and Low, M. (2022). “Groundwater Spatiotemporal Data Analysis Tool: Case Studies, New Features and Future Developments.” *Groundwater Monitoring & Remediation*, 42(3), 14-22.

monitoring period, the resulting plume geometry reflects conditions at a single point in time and may be influenced by short-term variability in groundwater elevations, concentration distributions, monitoring density, and analytical variability. Alternatively, plume maps generated using the maximum concentration observed during multiple monitoring events may represent a conservative depiction of groundwater impacts; however, such evaluations may combine concentrations that were not observed simultaneously and, therefore, may not represent plume geometry during any individual monitoring period.

In contrast, GWSDAT evaluates groundwater concentrations as a function of both spatial location and time through a spatiotemporal modeling framework. The resulting concentration surfaces incorporate the full groundwater monitoring dataset and provide a representation of long-term groundwater conditions rather than conditions associated with a single monitoring event. Consequently, the annual GWSDAT plume interpretations presented in this Addendum are considered more appropriate for characterization of plume evolution, plume behavior, plume area, and dissolved arsenic occurrence within groundwater for purposes of the Nature and Extent evaluation. Conventional contour maps remain useful for evaluating conditions during individual monitoring periods; however, the GWSDAT approach provides a more comprehensive assessment of long-term plume geometry and temporal behavior within the uppermost aquifer[4].

5.2 Arsenic Plume Delineation

The arsenic plume was delineated using a ten-year groundwater monitoring dataset spanning the fourth quarter of 2016 through the third quarter of 2026, including analytical data from the AOR monitoring wells. The interpretation is based on groundwater monitoring results, hydrogeologic interpretations, potentiometric surface evaluations, and GWSDAT-generated concentration surfaces. A plume map was generated in GWSDAT for each annual evaluation period and is presented in Appendix F.

Figure 5 updates and supersedes the arsenic plume depiction in the September 2025 *Nature and Extent Report* by incorporating groundwater monitoring data collected pursuant to the AOR. It represents the current interpretation of arsenic distribution within the uppermost aquifer.

5.2.1 Horizontal Extent

The plume maps indicate that arsenic impacts remain concentrated north and northwest of the Dallman Ash Pond and are primarily associated with groundwater within the basal

[4] Jones, W.R., Spence, M.J., Bowman, A.W., Evers, L., and Molinari, D.A. (2014). "A software tool for the spatiotemporal analysis and reporting of groundwater monitoring data." *Environmental Modelling & Software*, 55, 242-249; Evers, L., Molinari, D.A., Bowman, A.W., Jones, W.R., and Spence, M.J. (2015). "Efficient and automatic methods for flexible regression on spatiotemporal data, with applications to groundwater monitoring." *Environmetrics*, 26, 431-441.

sand/weathered-bedrock aquifer. Elevated arsenic concentrations continue to occur in monitoring wells immediately downgradient of the Dallman Ash Pond, including AW1 and RW3, with concentrations generally decreasing away from the source area. Additional AOR monitoring locations provide improved control on the plume margins and greater confidence in the interpreted plume geometry.

The additional monitoring data refine plume boundaries and reduce uncertainty regarding the horizontal extent of arsenic impacts. The dataset does not indicate previously unrecognized, widespread arsenic impacts beyond the areas identified through previous assessments. The overall plume footprint displays temporal variability but remains generally consistent with the nature and extent described in the September 2025 *Nature and Extent Report*. Arsenic concentrations used to delineate the plume are summarized in Table 2. The highest concentrations continue to occur in RW3, AW1, AP8, P07D, and AW6, while many plume-margin and boundary wells remain below the groundwater protection standard. This distribution supports the interpretation of a localized plume centered within historically impacted portions of the basal sand/weathered-bedrock aquifer. The additional monitoring data also improve understanding of plume geometry relative to the shallow sand unit and former creek alignment and provide greater confidence in the interpreted lateral extent of groundwater impacts.

5.2.2 Vertical Extent

Groundwater impacts continue to be primarily associated with the basal sand/weathered bedrock interval, which represents the uppermost aquifer beneath the Site. Monitoring data collected from both historical and newly installed wells indicate that arsenic concentrations exceeding the groundwater protection standard are largely confined to this hydrostratigraphic interval. Vertical hydrostratigraphic relationships are illustrated on the geologic cross-sections in Appendix D and the conceptual site model in Figure 3.

The additional investigation supports recognition of the shallow sand unit as a potential groundwater migration pathway where saturated and hydraulically connected conditions exist. However, the available monitoring data do not indicate that the shallow sand unit represents the dominant hydrostratigraphic interval controlling the currently defined arsenic plume. The principal groundwater impacts remain associated with the basal sand/weathered bedrock aquifer. The occurrence of arsenic impacts within this interval is consistent with the hydraulic communication discussed in Section 3.3 and supports the interpretation that groundwater impacts associated with the CCR units are expressed primarily within the basal sand/weathered-bedrock aquifer.

5.2.3 Downgradient Extent

The additional monitoring locations installed under the AOR improve delineation of the downgradient extent of arsenic impacts and reduce uncertainty in areas where monitoring coverage was previously limited. Groundwater flow interpretations continue to indicate movement

toward Sugar Creek and other local convergence areas, consistent with previous potentiometric surface evaluations. Groundwater flow directions are depicted on Figure 4.

Concentrations observed in the newly installed wells generally support the existing interpretation of plume migration. While individual monitoring locations provide additional spatial resolution and improve delineation of downgradient plume boundaries, the dataset does not indicate substantial expansion of arsenic impacts beyond areas previously identified through routine groundwater monitoring and assessment activities. The additional monitoring locations installed pursuant to the AOR provide improved delineation of downgradient plume boundaries and reduce uncertainty regarding the lateral extent of arsenic migration between previously existing monitoring locations.

5.2.4 Areas of Uncertainty

As with most groundwater investigations, uncertainty remains near the outer limits of the interpreted plume where groundwater monitoring locations are more widely spaced. Additional uncertainty is associated with localized hydrogeologic variability, particularly near the former creek alignment and discontinuous shallow sand deposits identified during the AOR investigation. Interpretation of groundwater movement in the former creek corridor remains dependent upon correlation of heterogeneous alluvial and fill materials together with associated groundwater-bearing intervals, resulting in some uncertainty regarding the extent and continuity of hydraulic connectivity within this area. Similarly, the discontinuous nature of the shallow sand unit results in uncertainty regarding its relative contribution to groundwater migration at specific locations. These features may influence groundwater movement at a local scale and contribute to variability in concentration distributions. Potential migration pathways associated with the shallow sand unit and former creek alignment have been incorporated into the conceptual site model shown on Figure 3 and will continue to be evaluated as additional groundwater monitoring data become available. Although uncertainty remains regarding the relative significance of these features to plume development, incorporation of the AOR data has improved understanding of their potential role in groundwater migration and contaminant transport.

Although these uncertainties affect interpretation of localized groundwater flow paths, they do not materially alter the overall understanding of arsenic occurrence within the uppermost aquifer. The expanded monitoring network substantially improves confidence in plume delineation compared to previous evaluations.

The AOR investigation improves delineation of plume boundaries, reduces uncertainty regarding plume geometry, and provides additional information regarding groundwater migration pathways and hydraulic communication between CCR source areas and the uppermost aquifer. Incorporation of the additional monitoring locations into the GWSDAT evaluation resulted in refinement of plume contours, plume metrics, and the conceptual site model used to characterize groundwater impacts. The evaluation confirms that arsenic impacts remain primarily associated

with groundwater within the basal sand/weathered-bedrock aquifer and that the overall plume configuration displays some temporal variability generally consistent with interpretations presented in the September 2025 *Nature and Extent Report*. Refinements resulting from the AOR investigation improve confidence in characterization of the nature and extent of the arsenic release and address EPA comments regarding plume delineation, migration pathways, and hydraulic communication.

6. REVISED ARSENIC RELEASE CHARACTERIZATION

6.1 Previous Characterization

The September 2025 *Nature and Extent Report* concluded that arsenic impacts associated with the CCR surface impoundments were primarily present within the basal sand/weathered bedrock interval that comprises the uppermost aquifer beneath the Site. Arsenic concentrations exceeding the groundwater protection standard were identified in monitoring wells AW1, RW3, AP7, and AP8, and the nature and extent evaluation was based on groundwater monitoring data available through the fourth quarter of 2024.

The 2025 report interpreted groundwater flow as generally converging toward Sugar Creek and concluded that the arsenic plume was localized and associated with groundwater occurring near the unconsolidated soil/bedrock interface. Delineation of arsenic impacts relied on the existing monitoring network and geologic cross-sections developed from available borings and monitoring wells. The report further concluded that arsenic impacts could be adequately bounded by the existing monitoring network and associated assessment wells.

The hydrogeologic conceptual model presented in the 2025 report emphasized groundwater migration within the basal sand aquifer and did not identify the shallow sand unit or former creek alignment as significant contaminant migration pathways. At that time, available information was considered insufficient to support interpretation of either feature as an important component of the groundwater flow system responsible for arsenic transport.

The 2025 report also concluded that arsenic impacts were primarily associated with groundwater immediately downgradient of the Dallman Ash Pond and that the overall nature and extent of the release had been adequately characterized for purposes of the nature and extent determination.

The September 2025 characterization was developed prior to completion of the AOR investigation and, therefore, did not benefit from the additional hydrogeologic, groundwater quality, and groundwater elevation information subsequently obtained from the expanded monitoring network.

The September 2025 *Nature and Extent Report* also included estimates of dissolved arsenic occurrence based on analytical results collected from porewater monitoring locations installed

within the Dallman Ash Pond and Lakeside Ash Pond CCR units. Dissolved arsenic mass was estimated using measured porewater concentrations together with estimated porewater volumes for the CCR impoundments. The evaluation estimated approximately 43.2 kilograms of dissolved arsenic within Dallman Ash Pond porewater and approximately 20.1 kilograms of dissolved arsenic within Lakeside Ash Pond porewater, for a combined estimated dissolved arsenic mass of approximately 63.3 kilograms within CCR porewater.

These estimates were developed to characterize dissolved arsenic occurrence within the CCR impoundments themselves and were not intended to represent dissolved arsenic mass within groundwater. The September 2025 evaluation therefore focused on arsenic present within impoundment porewater, whereas the updated evaluation presented in this Addendum focuses on dissolved arsenic occurrence within the groundwater plume as delineated using GWSDAT and the expanded groundwater monitoring dataset. Consequently, the mass estimates developed in the September 2025 *Nature and Extent Report* and this Addendum are based on different media, different volumetric assumptions, and different calculation methodologies and are not directly comparable. The September 2025 estimate characterized dissolved arsenic occurrence within CCR impoundment porewater, whereas the present evaluation characterizes dissolved arsenic occurrence within groundwater and, therefore, addresses a different component of the overall arsenic release system.

6.2 Impact of New Information

Additional information obtained through the Agreement to Resolve (AOR) investigation was evaluated to determine whether the new data materially change the characterization of arsenic releases presented in the September 2025 *Nature and Extent Report*. The evaluation included additional borings, monitoring wells, groundwater quality data, groundwater elevation measurements, hydrogeologic interpretations, and GWSDAT plume analyses**.** The AOR investigation refined understanding of groundwater migration pathways, hydraulic communication, and plume geometry while continuing to support the conclusion that arsenic impacts remain primarily associated with groundwater within the basal sand/weathered-bedrock aquifer.

In addition, the AOR investigation provided the information necessary to estimate dissolved arsenic occurrence within the groundwater plume using GWSDAT-derived plume geometry and the expanded groundwater monitoring dataset. This updated evaluation supplements the porewater-based arsenic mass estimates, rather than replacing them, presented in the September 2025 *Nature and Extent Report* by providing a separate estimate of dissolved arsenic occurrence within groundwater.

The evaluation considered how the additional information affects understanding of groundwater migration pathways, hydraulic communication between the CCR units and the uppermost aquifer, plume geometry, and the characterization of arsenic releases.

6.2.1 Shallow Sand Pathway

The additional investigation supports recognition of the shallow sand unit as a potential groundwater migration pathway where saturated conditions and hydraulic continuity exist. Review of boring logs, cross-sections, and hydrostratigraphic mapping indicates that the shallow sand unit is present in localized areas and may provide a mechanism for groundwater movement within portions of the Site.

However, the shallow sand unit remains limited in thickness and lateral extent and does not appear to form a laterally continuous groundwater-bearing unit across the Site. The additional information refines the understanding of groundwater migration pathways and supports incorporation of the shallow sand unit into the conceptual site model as a potential groundwater migration pathway. However, the available monitoring data do not indicate that groundwater movement within the shallow sand unit alone controls the observed arsenic plume.

The AOR investigation and hydrogeologic evaluation support recognition of the shallow sand unit as a potential groundwater migration pathway where saturated and hydraulically connected conditions exist. This revised interpretation addresses the EPA's previous comments regarding the hydraulic significance of the shallow sand unit while recognizing that the unit remains discontinuous and limited in lateral extent across much of the Site.

6.2.2 Former Creek Alignment

The AOR investigation also provided additional information regarding the former creek alignment along the eastern side of the Dallman Ash Pond. Historical borings, recent borings, geologic cross-sections, and hydrostratigraphic mapping collectively indicate that portions of the former creek channel contain soft alluvial and fill materials associated with adjacent groundwater-bearing intervals and saturated sand deposits capable of facilitating groundwater movement.

Review of boring logs P-1D, P-2D, B-4, and B-8U indicates that the clay/fill intervals cited in EPA comments were generally logged as moist or wet rather than saturated. Saturated conditions were more commonly identified in underlying sand units and groundwater-bearing intervals. Consequently, the boring logs do not independently support characterization of the clay/fill materials themselves as uniformly saturated deposits. However, the boring logs do indicate the presence of soft alluvial and fill materials and localized groundwater-bearing zones that may influence groundwater movement along portions of the former creek alignment.

The former creek alignment, together with the shallow sand unit and long-term downward migration through lower-permeability deposits, represents one of several mechanisms that may contribute to migration of arsenic from the CCR source area to the basal sand/weathered bedrock aquifer.

These data support interpretation of portions of the former creek alignment as potential localized preferential groundwater migration pathways that may influence groundwater flow and contaminant transport incorporated into the conceptual site model. However, available information does not indicate that the former creek channel forms a continuous conduit beneath the Site or represents the sole mechanism by which arsenic has migrated from the CCR source area to the uppermost aquifer. Rather, the former creek alignment is interpreted as one of several hydrogeologic features that may influence local groundwater movement and contaminant transport.

6.2.3 Additional Monitoring Wells

The installation of monitoring wells AW4, AW5, AW6, and AP17 improved groundwater monitoring coverage in areas where additional data were previously needed. Analytical results from these wells provide improved spatial definition of arsenic concentrations and increase confidence in interpretation of plume boundaries.

The new monitoring results generally confirm the previously interpreted distribution of arsenic impacts while improving delineation of plume boundaries, reducing uncertainty regarding plume geometry, and providing additional information relevant to groundwater migration pathways and hydraulic communication. While the new wells provide important information regarding plume geometry and local groundwater conditions, they do not identify a previously unrecognized plume segment or indicate substantial expansion of the arsenic plume beyond areas already identified in the September 2025 *Nature and Extent Report*. Analytical results from the AOR monitoring wells are summarized in Table 2 and were incorporated into the plume delineation, hydrogeologic interpretation, and arsenic release calculations presented in this Addendum.

6.2.4 Plume Delineation

Incorporation of the AOR monitoring data into the GWSDAT evaluation resulted in refinement of plume contours and associated plume metrics. The analysis improves delineation of the horizontal extent of impacts and provides greater confidence in estimates of plume area, average concentration, and dissolved arsenic mass. The evolution of the plume geometry is illustrated on the GWSDAT figures in Appendix F.

The plume interpretation confirms that arsenic impacts remain concentrated within the basal sand/weathered bedrock aquifer and remain generally consistent with the plume configuration previously identified. The revised plume maps reflect improved delineation resulting from

additional monitoring data and provide a more robust characterization of plume geometry and groundwater impacts. The additional monitoring data improve confidence in plume geometry, reduce uncertainty regarding plume margins, and provides additional resolution of groundwater conditions between previously existing monitoring locations.

Collectively, the new information supports refinement of the hydrogeologic conceptual model by recognizing the shallow sand unit and portions of the former creek alignment as potential groundwater migration pathways and hydrogeologic features that may contribute to migration of arsenic from the CCR source areas to the uppermost aquifer. However, the additional investigation does not fundamentally alter the interpretation that arsenic impacts are primarily associated with groundwater within the basal sand/weathered-bedrock aquifer, nor do they substantially change the overall nature and extent of the arsenic release.

The additional investigation refines understanding of groundwater migration pathways, improves delineation of arsenic impacts, and enhance characterization of hydraulic communication between the CCR source areas and the uppermost aquifer. The updated conceptual site model recognizes that arsenic migration to the basal sand/weathered-bedrock aquifer likely reflects a combination of long-term downward migration through lower-permeability deposits under sustained hydraulic gradients and potential localized migration through hydrogeologic features such as the shallow sand unit and portions of the former creek alignment where favorable hydraulic conditions exist.

The AOR investigation also provided sufficient groundwater monitoring data to characterize the occurrence of dissolved arsenic within the groundwater plume using GWSDAT. Whereas the September 2025 *Nature and Extent Report* estimated the occurrence of dissolved arsenic within CCR impoundment porewater, the updated evaluation estimates the occurrence of dissolved arsenic within groundwater. These calculations address different portions of the overall arsenic release system and, therefore, provide complementary, rather than directly comparable, estimates of dissolved arsenic occurrence.

While the additional investigation substantially improves understanding of groundwater migration pathways, plume geometry, and dissolved arsenic occurrence within groundwater, arsenic impacts remain primarily associated with the basal sand/weathered-bedrock aquifer and the overall nature and extent of the arsenic release remain generally consistent with the interpretation presented in the September 2025 *Nature and Extent Report*.

7. ARSENIC RELEASE CALCULATIONS

7.1 Methodology

The September 2025 *Nature and Extent Report* estimated arsenic release quantities using groundwater monitoring data available at that time and the interpreted extent of groundwater impacts within the uppermost aquifer. Since completion of that evaluation, additional monitoring locations have been installed pursuant to the AOR, providing improved spatial coverage and better definition of plume geometry.

Groundwater arsenic concentrations were evaluated using the GWSDAT, an open-source decision-support tool developed for analysis and visualization of groundwater monitoring data. GWSDAT applies a spatiotemporal statistical model that evaluates groundwater concentration data as a function of both location (X-Y coordinates) and time, allowing concentration trends and plume geometry to be interpreted simultaneously rather than through independent spatial or temporal analyses (Jones, W.R., et al., 2014; Evers, L, et al., 2015). GWSDAT utilizes non-parametric smoothing and spatiotemporal regression techniques to generate continuous groundwater concentration surfaces from discrete monitoring well data.

For this evaluation, total arsenic concentration data collected between the fourth quarter of 2016 and the third quarter of 2026 were imported together with monitoring well coordinates and groundwater elevation information. The dataset included both historical monitoring locations and monitoring wells installed pursuant to the AOR (AW-4, AW-5, AW-6, and AP-17). GWSDAT used the monitoring data to fit a spatiotemporal concentration surface representing arsenic occurrence within the uppermost aquifer for each evaluation period.

Although the spatiotemporal model was fit using quarterly data, plume characterization was performed using annual aggregation of the modeled concentration surfaces to provide a stable representation of long-term groundwater conditions and incorporate the complete AOR monitoring dataset.

The resulting concentration surfaces were used to generate yearly plume maps by interpolating arsenic concentrations between monitoring wells while accounting for temporal trends in the groundwater dataset. Plume boundaries were defined using an arsenic threshold concentration of 23.9 micrograms per liter (µg/L), corresponding to the arsenic groundwater protection standard (GWPS). Areas where the interpolated concentration surface exceeded the selected threshold were delineated as the arsenic plume. GWSDAT then calculated plume metrics including plume area, average plume concentration, and normalized dissolved plume mass. Annual periods that did not produce a closed plume geometry were evaluated qualitatively through review of the modeled concentration surfaces but were not used for quantitative plume-area or plume-mass calculations.

GWSDAT plume statistics were calculated using an effective porosity of 43 percent. The selected porosity value is based on published saturation water-content data for sandy materials reported by Sharp-Hansen et al.[5], which indicate a representative range of approximately 37 to 49 percent. The mean value of 43 percent was adopted as representative of the basal sand/weathered-bedrock aquifer for purposes of plume metric evaluation and dissolved arsenic mass estimation.

To estimate total dissolved arsenic mass within groundwater, the normalized GWSDAT plume mass was multiplied by a representative saturated thickness for the basal sand/weathered-bedrock aquifer. Based on hydrogeologic information presented in the September 2025 *Flow Path Report* and subsequent AOR investigation, a representative saturated thickness of approximately 12 feet was selected for mass estimation. This thickness is considered representative of the arsenic-bearing portion of the uppermost aquifer and provides a reasonable basis for order-of-magnitude estimation of dissolved arsenic mass.

The evaluation is intended to refine previous estimates using the expanded monitoring dataset and the revised conceptual understanding developed through the AOR investigation. The calculations reflect improved characterization of plume geometry, groundwater migration pathways, and concentration distributions resulting from incorporation of additional monitoring data rather than a fundamental change in the overall interpretation of groundwater impacts. Supporting GWSDAT output files are provided in Appendix F.

7.1.1 GWSDAT Model Assumptions

The GWSDAT evaluation is based on several assumptions regarding data treatment, statistical modeling, and plume characterization. These assumptions were selected to provide a consistent and reproducible framework for evaluating arsenic occurrence within the uppermost aquifer.

Key assumptions incorporated into the GWSDAT evaluation include:

- Groundwater concentration data are representative of groundwater quality conditions at the corresponding monitoring well locations and sampling dates.
- Arsenic concentrations can be reasonably represented using a spatiotemporal smoothing model that evaluates concentration as a function of both location and time.
- The groundwater monitoring network provides sufficient spatial and temporal coverage to characterize plume geometry and concentration distributions within the uppermost aquifer.

[5] Sharp-Hansen, S., Travers, C., Hummel, P., and Allison, T. (1990). *A Subtitle D Landfill Application Manual for the Multimedia Exposure Assessment Model (MULTIMED)*. U.S. EPA Environmental Research Laboratory, Athens, Georgia. EPA Contract No. 68-03-3513.

- Quarterly monitoring data provide an appropriate basis for fitting the spatiotemporal model, while annual aggregation of the modeled concentration surfaces provides a representative characterization of long-term plume behavior.
- Non-detect analytical results were assigned a value equal to one-half of the laboratory reporting limit prior to model fitting.
- Groundwater elevations were aggregated using the median groundwater elevation value for each evaluation period.
- A penalized spline (PSpline) smoothing model using eight spline segments and higher-resolution model output settings was used to generate concentration surfaces.
- The arsenic groundwater protection standard (23.9 µg/L) was used as the plume delineation threshold concentration.
- Plume metrics were calculated only for annual periods in which the selected threshold concentration produced a statistically valid closed plume geometry.
- An effective porosity of 43 percent was assumed for the basal sand/weathered-bedrock aquifer.
- A representative saturated thickness of 12 feet was assumed for calculation of estimated dissolved arsenic mass from the normalized plume mass reported by GWSDAT.

These assumptions are consistent with the objectives of the Nature and Extent evaluation and provide a transparent basis for interpretation of plume geometry, plume area, average plume concentration, and estimated dissolved arsenic mass.

7.2 Results

The GWSDAT evaluation generated quantitative plume metrics for arsenic using historical groundwater monitoring data together with results from the newly installed monitoring wells. The plume statistics provide a consistent quantitative basis for evaluating changes in plume geometry, plume extent, and dissolved arsenic mass through time. GWSDAT-derived plume metrics are shown on the figures in Appendix F.

The GWSDAT plume statistics are based on a groundwater monitoring dataset spanning approximately ten years (Fourth Quarter 2016 through Third Quarter 2026) and, therefore, represent a robust characterization of arsenic occurrence within the uppermost aquifer. The resulting plume geometry and dissolved mass estimates are considered representative of long-term groundwater conditions rather than short-term fluctuations associated with individual monitoring events.

Arsenic plume metrics include:

- Estimated plume area above the 23.9 µg/L arsenic groundwater protection standard (GWPS);
- Average arsenic concentration within the delineated plume; and
- Estimated dissolved arsenic mass within the plume.

Annual GWSDAT plume maps were generated for ten consecutive annual monitoring periods spanning the fourth quarter of 2016 through the third quarter of 2026 using an arsenic threshold concentration equal to the groundwater protection standard (23.9 µg/L). Plume statistics could only be calculated for annual periods in which the threshold concentration produced a statistically valid closed plume geometry. During the first four annual periods (2016-2017 through 2019-2020), the 23.9 µg/L contour did not produce a closed plume and plume area and plume mass could not be reliably calculated. Beginning with the 2020-2021 evaluation period, a closed plume geometry was produced and GWSDAT calculated annual plume metrics. The largest annual plume metrics were observed during the 2022-2023 evaluation period, when the normalized dissolved plume mass was approximately 1.07 kg/ft and the plume area was approximately 1.51 million square feet. Thereafter, both plume area and normalized plume mass declined, with the 2025-2026 evaluation period producing a normalized dissolved plume mass of approximately 0.189 kg/ft and a plume area of approximately 496,260 square feet. The decrease in calculated plume area and normalized plume mass during the most recent evaluation periods is consistent with a reduction in the portion of the aquifer exceeding the groundwater protection standard and is consistent with the interpretation that groundwater impacts remain localized within historically affected portions of the basal sand/weathered-bedrock aquifer.

As indicated above, the arsenic plume area for the 2025-2026 evaluation period is approximately 496,260 square feet (11.39 acres) using a threshold concentration of 23.9 µg/L and an effective porosity of 43 percent. GWSDAT calculated a normalized dissolved plume mass of approximately 0.189 kg/ft. Because GWSDAT reports plume mass normalized to saturated aquifer thickness, a representative saturated thickness of 12 feet was applied to estimate total dissolved arsenic mass within groundwater. Application of this representative saturated thickness yields an estimated dissolved arsenic mass of approximately 2.3 kilograms within the delineated plume. This value should be considered an order-of-magnitude estimate because actual saturated thickness varies across the plume area and the normalized plume mass reported by GWSDAT is the direct model output.

These metrics were calculated from a groundwater monitoring dataset spanning approximately ten years (Fourth Quarter 2016 through Third Quarter 2026) and incorporating both historical monitoring locations and wells installed pursuant to the Agreement to Resolve. The resulting plume metrics therefore reflect long-term groundwater conditions and arsenic occurrence within

the uppermost aquifer rather than short-term fluctuations associated with individual monitoring events. The delineated plume remains concentrated within historically impacted portions of the basal sand/weathered-bedrock aquifer and does not indicate substantial expansion beyond previously identified plume boundaries.

The evaluation indicates that the arsenic plume remains relatively localized and that variations in calculated plume metrics generally correspond to differences in plume delineation, monitoring density, interpolation, and incorporation of additional monitoring locations rather than evidence of substantial changes in plume behavior. GWSDAT results provide improved confidence in characterization of plume geometry and dissolved arsenic distribution within the uppermost aquifer. The inclusion of AOR monitoring locations improved resolution of plume margins and reduced uncertainty associated with previous plume boundary interpretations.

Annual GWSDAT plume statistics that could be calculated at the 23.9 µg/L threshold indicate that plume area and normalized plume mass were greatest during the 2020-2023 evaluation period and subsequently decreased through the most recent evaluation period (2025-2026). The decrease in both plume area and normalized plume mass suggests that groundwater exceeding the groundwater protection standard remains concentrated within historically impacted portions of the uppermost aquifer and does not indicate continuing plume expansion.

Detailed GWSDAT output figures and supporting information are included in Appendix F.

7.2.1 Comparison with 2025 Estimates

The September 2025 *Nature and Extent Report* characterized arsenic occurrence using groundwater monitoring data available through the fourth quarter of 2024 together with estimates of dissolved arsenic present within CCR impoundment porewater. Since completion of that evaluation, additional monitoring wells have been installed pursuant to the Agreement to Resolve (AOR), resulting in increased spatial coverage of groundwater conditions and arsenic concentrations surrounding the Dallman Ash Pond and Lakeside Ash Pond.

The GWSDAT evaluation completed for this Addendum incorporated approximately ten years of groundwater monitoring data spanning the period from the fourth quarter of 2016 through the third quarter of 2026. The expanded dataset provides a more robust basis for evaluating arsenic plume geometry, concentration distributions, and dissolved arsenic occurrence within groundwater than was available during preparation of the September 2025 report.

The additional monitoring locations installed under the AOR improved delineation of plume boundaries and reduced uncertainty regarding groundwater conditions in areas previously characterized by limited monitoring data. Incorporation of these locations into the GWSDAT

evaluation refined interpretation of plume geometry and improved understanding of groundwater migration pathways represented in the updated conceptual site model.

It should be noted that the arsenic mass estimates presented in the September 2025 *Nature and Extent Report* and this Addendum are based on different calculation approaches and are, therefore, not directly comparable. The September 2025 *Nature and Extent Report* estimated arsenic mass within CCR impoundment porewater using porewater concentrations and estimated porewater volumes. In contrast, this Addendum estimates arsenic occurrence within the groundwater plume using GWSDAT-derived plume geometry, groundwater concentrations, an assumed effective porosity of 43 percent, and a representative saturated aquifer thickness of 12 feet. Consequently, differences between the reported mass estimates reflect differences in the media evaluated and calculation methodology in addition to incorporation of new groundwater monitoring data. The September 2025 calculations characterized dissolved arsenic occurrence within the CCR units themselves, whereas the present evaluation characterizes dissolved arsenic occurrence within groundwater downgradient of the CCR units.

Annual plume statistics generated by GWSDAT provide additional insight into the temporal behavior of the arsenic plume. Closed plume geometries could not be delineated during the first four annual evaluation periods using the groundwater protection standard threshold concentration of 23.9 µg/L. However, statistically valid closed plume geometries were generated during the 2020-2021, 2021-2022, 2022-2023, 2024-2025, and 2025-2026 evaluation periods. The calculated plume areas ranged from approximately 496,260 square feet to approximately 1.52 million square feet, while normalized dissolved plume mass ranged from approximately 0.189 kg/ft to approximately 1.07 kg/ft. The reduction in both plume area and normalized plume mass observed during the most recent annual evaluation period suggests that arsenic impacts exceeding the groundwater protection standard remain concentrated within historically impacted areas and do not indicate continuing plume expansion.

GWSDAT identified a plume area of approximately 496,260 square feet (11.39 acres) and a normalized dissolved plume mass of approximately 0.189 kg/ft for the 2025-2026 evaluation period. Application of a representative saturated thickness of 12 feet yields an estimated dissolved arsenic mass of approximately 2.3 kilograms within the delineated groundwater plume. The resulting plume metrics indicate that arsenic impacts remain concentrated within historically affected portions of the basal sand/weathered-bedrock aquifer and do not indicate substantial expansion of the plume footprint beyond previously identified areas of impact. The estimated groundwater-plume mass is therefore best interpreted as a refinement of groundwater release characterization rather than evidence of a significant change in plume behavior.

Overall, the updated evaluation supports refinement of arsenic release characterization rather than a fundamental change in understanding of the nature and extent of groundwater impacts. The expanded monitoring network, updated hydrogeologic interpretation, and GWSDAT analyses

provide improved confidence in characterization of plume geometry, groundwater migration pathways, hydraulic communication, and dissolved arsenic occurrence within the uppermost aquifer.

8. CONCLUSIONS

The investigation completed pursuant to the Agreement to Resolve (AOR) has provided additional groundwater monitoring and hydrogeologic information that improves the understanding of groundwater conditions surrounding the Dallman Ash Pond (DAP) and Lakeside Ash Pond (LAP) CCR units. The additional data have been incorporated into the conceptual site model, groundwater flow interpretation, arsenic plume delineation, and arsenic release calculations presented in this Addendum.

The AOR investigation does not fundamentally alter the conclusions regarding the primary occurrence of arsenic within the basal sand/weathered bedrock aquifer presented in the June 2025 *Nature and Extent Report*. Rather, the expanded dataset provides additional spatial control, reduces uncertainty regarding plume configuration and migration pathways, and refines the hydrogeologic conceptual site model presented in the September 2025 *Flow Path Report* and June 2025 *Nature and Extent Report*. The AOR investigation provided additional information regarding the shallow sand unit, former creek alignment, and groundwater conditions in areas where monitoring data were previously limited. Evaluation of these data supports recognition of the shallow sand unit as a potential groundwater migration pathway where saturated and hydraulically connected conditions exist. However, the shallow sand unit remains limited in areal extent and does not form a laterally continuous groundwater-bearing unit beneath or surrounding the CCR units. As a result, any contribution of the shallow sand unit to groundwater migration is interpreted to be localized rather than sitewide. Similarly, portions of the former creek alignment may function as potential localized groundwater flow and preferential migration pathways where permeable alluvial materials remain present. Review of historical and recent boring logs indicates that clay/fill intervals within portions of the former creek corridor were generally logged as moist or wet rather than saturated; however, groundwater-bearing sands and localized hydraulically conductive materials remain present and may contribute to groundwater migration within the corridor.

Groundwater monitoring data continues to demonstrate the presence of arsenic within the basal sand/weathered bedrock aquifer. The occurrence of groundwater impacts within this hydrostratigraphic interval supports the conclusion that hydraulic communication exists between the CCR source areas and the uppermost aquifer. The available data support a conceptual model in which arsenic migration to the basal sand/weathered bedrock aquifer is likely associated with long-term downward migration under sustained hydraulic gradients associated with decades of CCR management activities, potentially enhanced by localized migration through hydrogeologic features such as the shallow sand unit and portions of the former creek alignment where favorable

hydraulic conditions exist. The available information does not identify a single discrete pathway responsible for all observed groundwater impacts.

The installation of monitoring wells AW4, AW5, AW6, and AP17 improved groundwater monitoring coverage and increased confidence in interpretation of groundwater quality conditions surrounding the DAP. These locations provide additional spatial control on arsenic concentrations, improve delineation of plume boundaries, and reduce uncertainty in plume geometry, resulting in a more robust interpretation of groundwater impacts as summarized in Table 2.

GWSDAT analyses and resulting plume metrics (Appendix F), which incorporate both historical groundwater data and AOR monitoring results, provide improved delineation of arsenic plume boundaries and estimates of plume area, average concentration, and dissolved arsenic mass. The revised plume interpretation confirms that arsenic impacts remain primarily associated with groundwater within the basal sand/weathered bedrock aquifer and that overall plume geometry remains generally consistent with historical groundwater monitoring observations, although temporal variability is evident in plume area, concentration distributions, and normalized dissolved plume mass. Incorporation of the AOR monitoring locations improved delineation of plume boundaries, reduced uncertainty regarding plume geometry, and enhanced understanding of groundwater migration pathways represented in the conceptual site model. A closed plume geometry exceeding the GWPS was present during the 2020-2023 and 2024-2026 evaluation periods, but both plume area and normalized plume mass declined substantially between 2022-2023 and 2025-2026. The most recent annual plume area (496,260 ft²) represents approximately one-third of the maximum plume area calculated during the monitoring period, while the normalized plume mass decreased from approximately 1.07 kg/ft to approximately 0.19 kg/ft. These results indicate that arsenic impacts remain localized and do not demonstrate continued expansion of the plume beyond historically impacted portions of the uppermost aquifer. These results support the interpretation that arsenic impacts remain primarily associated with groundwater within the basal sand/weathered-bedrock aquifer and provide an updated quantitative estimate of dissolved arsenic occurrence within the uppermost aquifer. This estimate should be considered an order-of-magnitude approximation because actual saturated thickness varies spatially throughout the plume area and the GWSDAT output is not intended to represent a direct calculation of total dissolved mass. Instead, the estimate provides a reasonable basis for comparing the magnitude of dissolved arsenic present within the uppermost aquifer and addressing EPA's request for arsenic release calculations.

These results support the interpretation that arsenic impacts remain concentrated within historically affected portions of the uppermost aquifer and do not indicate substantial expansion of the plume footprint. Long-term groundwater elevation data indicate that a groundwater flow associated with the FGDS Development Unit 2 area induces localized flow convergence, while Sugar Creek functions as a groundwater discharge feature that exerts hydraulic influence along portions of the northern and western site boundaries. Collectively, these features likely contribute

to the localized nature of the arsenic plume and help explain the persistence of elevated concentrations within historically impacted areas despite the absence of substantial plume expansion.

The additional investigation and analyses refine understanding of groundwater migration pathways, improve characterization of hydraulic communication between the CCR source area and the uppermost aquifer, and enhance delineation of the arsenic plume. However, the new information does not substantially alter the overall interpretation of the nature and extent of arsenic impacts presented in the September 2025 *Nature and Extent Report*. Rather, the evaluation provides improved delineation of groundwater impacts and greater confidence in plume characterization through incorporation of additional monitoring locations and hydrogeologic information.

Finally, revisions to arsenic release calculations presented in this Addendum are primarily attributable to improved plume delineation resulting from the expanded monitoring network and incorporation of groundwater monitoring data collected pursuant to the AOR. The calculations provide a more complete representation of plume geometry and concentration distribution and improve confidence in quantitative characterization of the arsenic release.

Accordingly, the additional investigation completed pursuant to the Agreement to Resolve refines the hydrogeologic conceptual site model, improves delineation of arsenic impacts, and enhances understanding of groundwater migration pathways and hydraulic communication between the CCR source areas and the uppermost aquifer. The conceptual site model recognizes that arsenic migration to the basal sand/weathered-bedrock aquifer likely reflects a combination of long-term downward migration through lower-permeability deposits under sustained hydraulic gradients and potential migration through hydrogeologic features such as the shallow sand unit and portions of the former creek alignment where favorable hydraulic conditions exist. While the results of the AOR investigation substantially improve understanding of groundwater conditions and reduce uncertainty regarding plume geometry and migration pathways, groundwater impacts remain primarily associated with the basal sand/weathered-bedrock aquifer and the overall nature and extent of the arsenic release remain generally consistent with the interpretation presented in the September 2025 *Nature and Extent Report*. The information presented in this addendum represents refinements to existing interpretations and directly addresses EPA comments regarding plume delineation, groundwater migration pathways, hydraulic communication, and characterization of the arsenic release.

TABLES

Table 1: Groundwater Elevation Summary

Table 1. Groundwater Elevation Summary

Well ID	4th Qtr 2025	1st Qtr 2026	May-26	2nd Qtr 2026	3rd Qtr 2026
AP1	523.48	524.32	525.28	531.13	524.78
AP10	529.77	530.11	532.62	535.36	533.37
AP11	522.52	522.68	524.37	NM	523.08
AP12	522.46	532.57	524.29	NM	523.16
AP13	521.96	522.23	524.93	NM	524.65
AP14	534.87	536.11	536.22	NM	537.4
AP15D	535.229	535.579	536.639	NM	536.659
AP16	527.695	526.855	531.735	NM	532.185
AP17	NI	NI	527.54	528.55	528.04
AP2	526.48	527.17	528.11	531.27	528.41
AP3	525.37	525.27	525.83	529.94	525.64
AP4	542.66	542.66	544.86	545.46	545.49
AP5	563.28	564.68	568.49	569.87	569.94
AP6	525.466	525.506	527.936	529.136	529.55
AP7	523.97	523.75	526.51	NM	527.46
AP8	530.82	531.54	534.12	535.42	531.77
AP9	523.01	523.11	524.94	NM	527.17
AW1	535.16	536.51	538.89	540.81	542.32
AW2	519.73	521.58	523.86	526.41	525.04
AW4	NI	NI	534.32	535.27	530.12
AW5	NI	NI	528.72	529.65	528.35
AW6	NI	NI	524.79	525.92	526.05
D06	542.394	543.184	545.484	NM	539.834
D07	542.838	543.198	545.896	NM	541.368
D08	541.392	543.322	544.462	550.462	549.162
D1 Deep	540.92	541.77	546.07	547.28	547.79
D2 Deep	542.01	542.79	545.96	549.48	549.94
D3 Deep	541.77	542.93	545.02	550.18	548.83
D4	542.8	543	546.13	546.84	546.28
DB04 Deep	541.988	541.658	546.248	546.838	546.288
DB05 Deep	542.25	543.41	546.809	NM	542.59
G110	528.61	529.82	531.57	532.25	533.84
G112	521.9	524.4	525.84	526.64	528.46
G120	531.02	532.14	534.45	535.57	537.72
G121	523.62	523.42	526.2	527.4	526.49
G122	519.47	520.78	523.42	527.22	525.38
G123	519.722	521.542	523.702	526.092	524.982
GP1	522.76	523.17	526.01	NM	526.08
GP3	528.57	528.33	529.57	NM	530.36
GP7	524.08	524.88	527.25	528.47	527.91
L1 Deep	548.34	547.57	549.86	550.88	552.8

Table 1. Groundwater Elevation Summary

Well ID	4th Qtr 2025	1st Qtr 2026	May-26	2nd Qtr 2026	3rd Qtr 2026
L3 Deep	548.5	547.92	549.69	549.98	552.67
L4	554.1	554.69	561.16	560.76	556.36
L5 Deep	547.19	546.99	548.55	548.48	551.13
LB2 Deep	548.799	549.129	550.229	551.349	553.389
P03D	522.693	524.473	526.323	527.673	527.673
P04D	523.79	525.46	527.22	528.41	527.44
P05D	526.07	526.76	530.8	531.11	525.79
P06D	523.67	525.29	523.96	523.96	523.96
P07D North	520.78	522.09	524.08	525.63	525.41
P09D East	522.31	524.38	525.84	526.71	525.81
P103	521.6	523.46	526.49	NM	527.69
P104	519.9	521.36	523.52	527.21	524.57
P106	520.15	520.59	524.25	523.24	523.24
R101	536.97	537.96	538.72	540.38	540.34
R111	524.37	526	527.34	528.17	529.92
RW3	524.94	525.52	528.21	528.91	529.74
T1	520.77	520.9	523.16	NM	522.2
T2	521.59	522.31	524.59	NM	524.93
T4	528.86	528.55	530.85	NM	532.19
T5	526.67	526.15	531.77	NM	532.61
T6	526.34	525.18	527.61	NM	529.61
TW3 West	524.163	523.483	526.403	531.113	526.723

Note:

1. Groundwater elevations are reported in feet above mean sea level (ft MSL).
2. NM = Not Measured.
3. NI = Not Installed.
4. The July 2026 groundwater elevations were used to develop the potentiometric surface map presented as Figure 4.

Table 2: Summary of Arsenic Analysis

Table 2. Summary of Arsenic Analyses (2Q2026 and 3Q2026)

Well ID	4th Qtr 2025	1st Qtr 2026	2nd Qtr 2026	3rd Qtr 2026
AP1	<0.001	<0.001	NR	<0.001
AP2	0.0014	<0.001	NR	0.0012
AP3	0.0135	0.0175	NR	0.0136
AP4	0.0219	0.0026	NR	0.022
AP5	<0.001	<0.001	NR	<0.001
AP6	0.0112	0.0114	NR	0.0104
AP7	0.0182	0.0325	NR	0.0521
AP8	0.0372	0.0394	NR	0.0462
AP9	0.0016	<0.001	NR	<0.001
AP10	<0.001	<0.001	NR	<0.001
AP11	<0.001	<0.001	NR	<0.001
AP12	<0.001	<0.001	NR	<0.001
AP13	0.0018	0.0018	NR	<0.001
AP14	0.0017	0.0029	NR	0.0014
AP17	NI	NI	0.0062	0.0043
AW1	0.13	0.152	0.0357	0.0813
AW2	0.0134	0.0099	0.0144	0.0098
AW4	NI	NI	0.0143	0.0084
AW5	NI	NI	0.0086	0.0096
AW6	NI	NI	0.0301	0.025
G110	0.0046	0.0055	NR	NR
G112	<0.001	0.0014	NR	NR
G120	0.0128	0.0105	0.0169	<0.001
G121	0.0126	0.0075	0.0141	0.0177
G122	0.0016	0.0025	0.0019	0.0031
P07D	NR	0.0294	0.0272	0.0305
R101	<0.001	<0.001	0.0014	0.0018
R111	0.0171	0.0156	NR	NR
RW3	0.108	0.0654	NR	0.119
T1	<0.001	<0.001	NR	<0.001
T2	0.0073	0.0055	NR	0.004
T4	0.003	0.0026	NR	0.0039
T5	0.0022	0.0033	NR	<0.001
T6	0.0145	0.0114	NR	0.0115

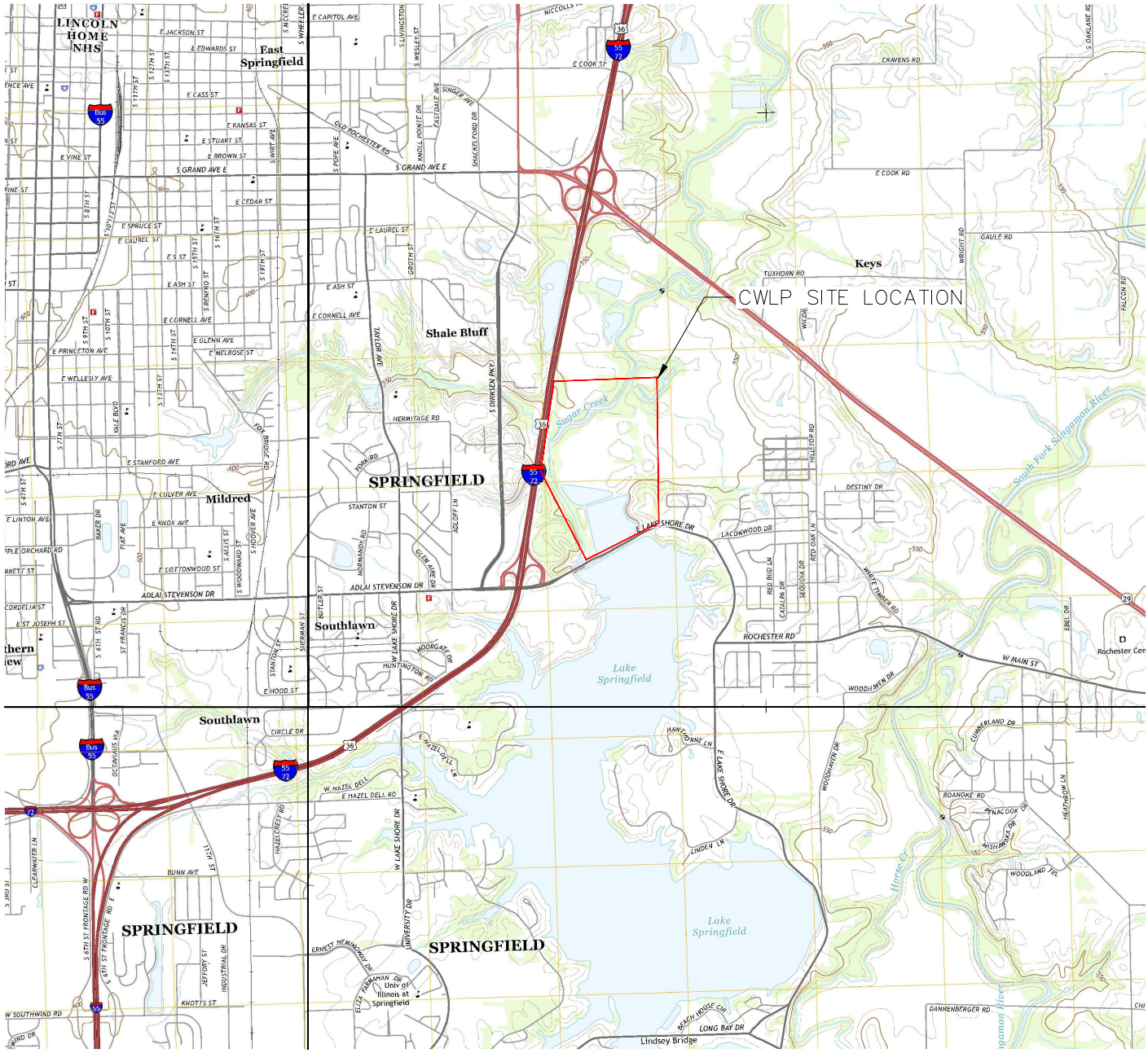
Note:

1. Concentrations are reported in mg/L.
2. NI = Not installed
3. NR = No results

FIGURES

Figure 1: Site Location

J:\S\Springfield CWLP\CWLP Ash Pond\DWG\2026\FSDS Landfill ASD\Site Map.dwg Tab: Layout1



N

0 200 4000 8000

SCALE: IN FEET

NOTE:
BACKGROUND IMAGE COURTESY OF
UNITED STATES GEOLOGICAL SURVEY.

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APPROVED BY: MTH | DESIGNED BY: MTH | DRAWN BY: BCK

SITE LOCATION

PLANS PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: AUGUST 2026
PROJECT ID: 4926.1207.00
SHEET NUMBER:

FIG. 1

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Figure 2: Site Features and Monitoring Well Network

LEGEND

- 550 — EXISTING GROUND CONTOURS
- TEMPORARY ASSESSMENT WELL/PIEZOMETER
- PIEZOMETER
- CCR SURFACE IMPOUNDMENT WELL
- FGDS LANDFILL WELL
- SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE: APRIL 2023.
2. TOPOGRAPHIC CONTOUR INTERVAL SHOWN IS 2 FEET.
3. SAMPLING DATE: 7/23/2026.
4. SUGAR CREEK SURFACE WATER ELEVATION IS BASED ON USGS GAGE 05576250 FOR 6/25/2026.
5. DEPICTED BOUNDARIES OF SITE FEATURES ARE APPROXIMATE.

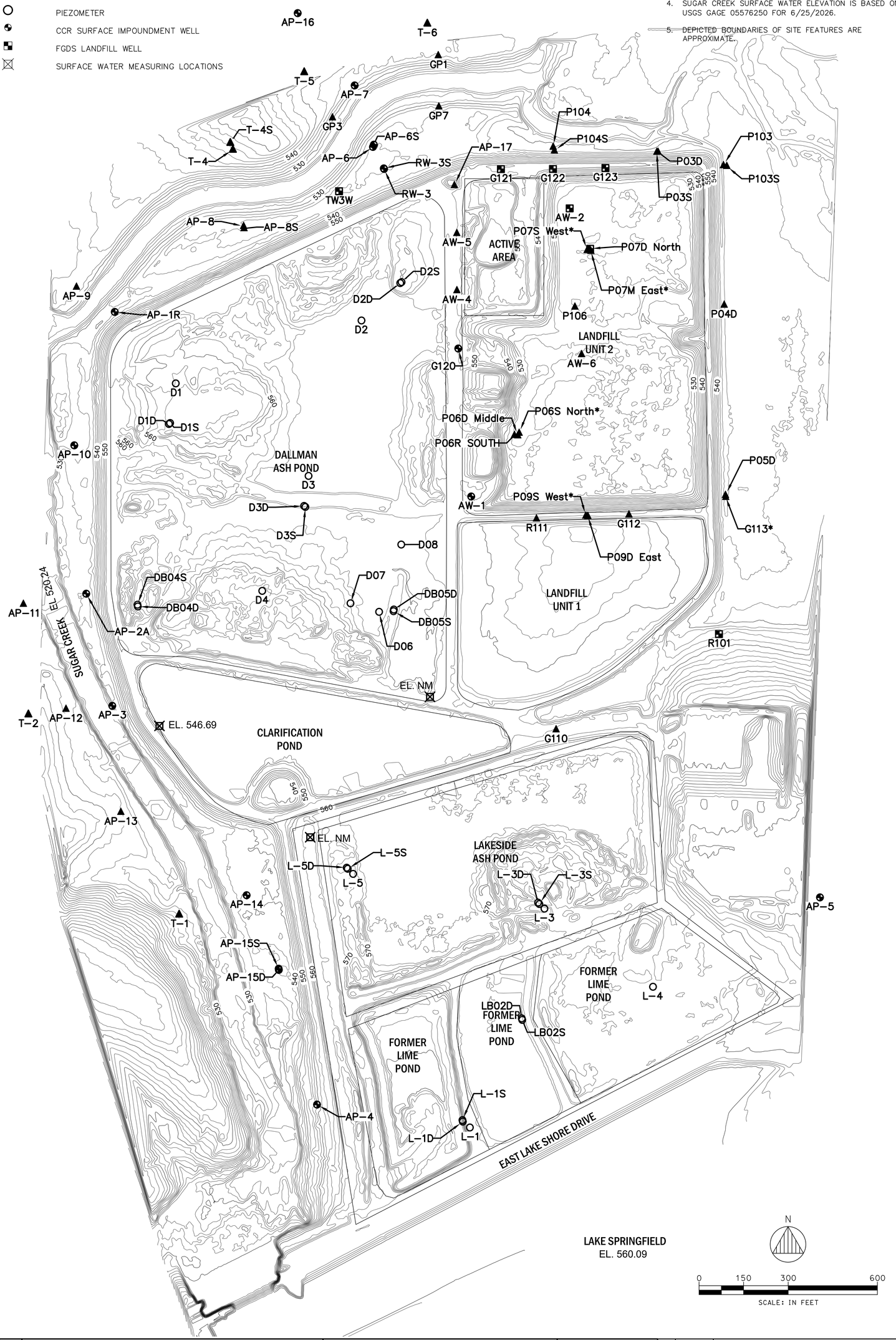


FIG. 2

SITE FEATURES AND MONITORING WELL NETWORK

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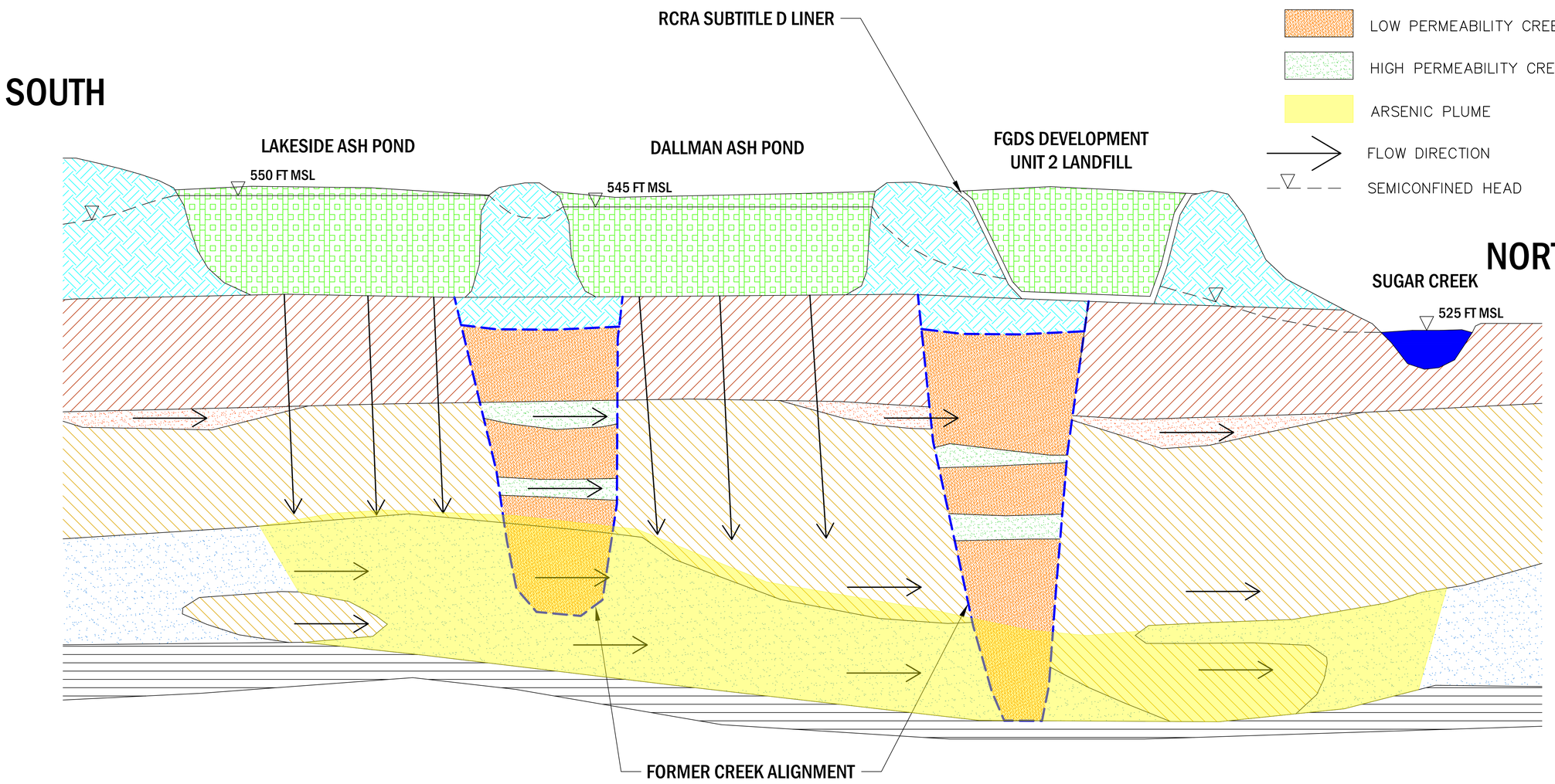
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Figure 3: Conceptual Site Model

Hydrostratigraphic Unit	Thickness Range (ft)	Approximate Average Thickness (ft)
Fill	0-20	8-10
Upper Cohesive Deposit	5-20	10-15
Shallow Sand Unit	0-7	2-4
Lower Cohesive Deposit	0-27	11
Basal Sand	0-18.6	10-12
Weathered Bedrock Interval	0-5	2-3
Shale Bedrock	Not Applicable	Not Applicable

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- CCR
- WEATHERED BEDROCK
- LOW PERMEABILITY CREEK FILL
- HIGH PERMEABILITY CREEK FILL
- ARSENIC PLUME
- FLOW DIRECTION
- SEMICONFINED HEAD



CONCEPTUAL SITE MODEL

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CONCEPTUAL SITE MODEL

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FIG 3

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Tab: 3 Last Saved: September 22, 2026, by Ben Karpus Plotted: Tuesday, September 22, 2026 9:19:13 AM
J:\S\Springfield CWLP\CWLP Ash Pond\DWG\2026\USEPA Figures\Conceptual Site Model.dwg

Figure 4: Potentiometric Surface Map, Third Quarter 2026

LEGEND

- 550 — EXISTING GROUND CONTOURS
- —540— GROUNDWATER CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL/PIEZOMETER
- ○ PIEZOMETER
- ◔ CCR SURFACE IMPOUNDMENT WELL
- ▪ FGDS LANDFILL WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS
- NM NOT MEASURED

NOTES

1. FLIGHT DATE: APRIL 2023.
2. POTENTIOMETRIC CONTOUR INTERVAL SHOWN IS 5 FEET.
3. TOPOGRAPHIC CONTOUR INTERVAL SHOWN IS 2 FEET.
4. SAMPLING DATE: 7/23/2026.
5. SUGAR CREEK SURFACE WATER ELEVATION IS BASED ON USGS GAGE 05576250 FOR 6/25/2026.
6. "NM" – NOT MEASURED.
7. DEPICTED BOUNDARIES OF SITE FEATURES ARE APPROXIMATE.
8. (*) – DATA NOT USED TO CREATE CONTOURS.

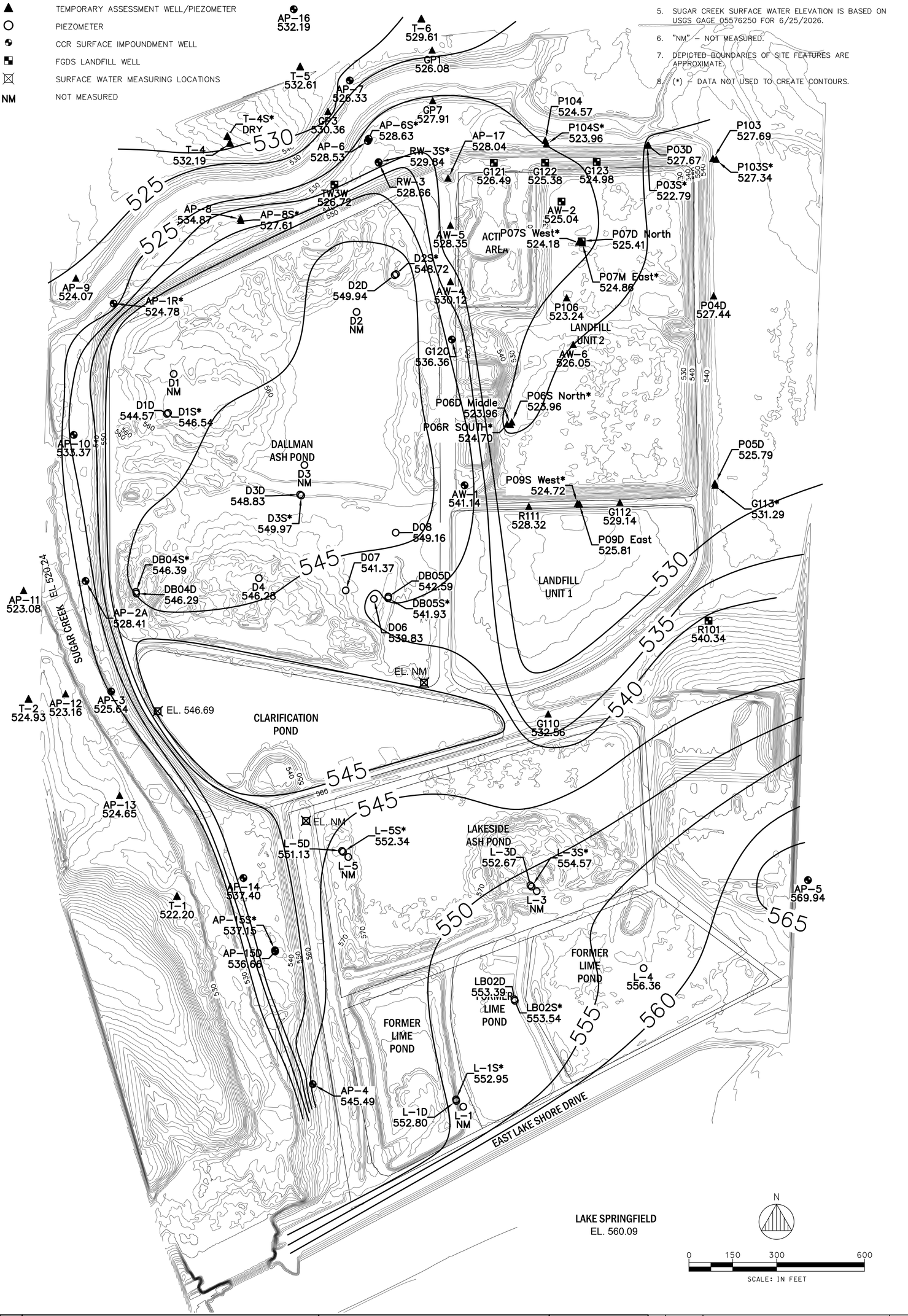


FIG. 4

POTENTIOMETRIC SURFACE MAP
JULY 23, 2026

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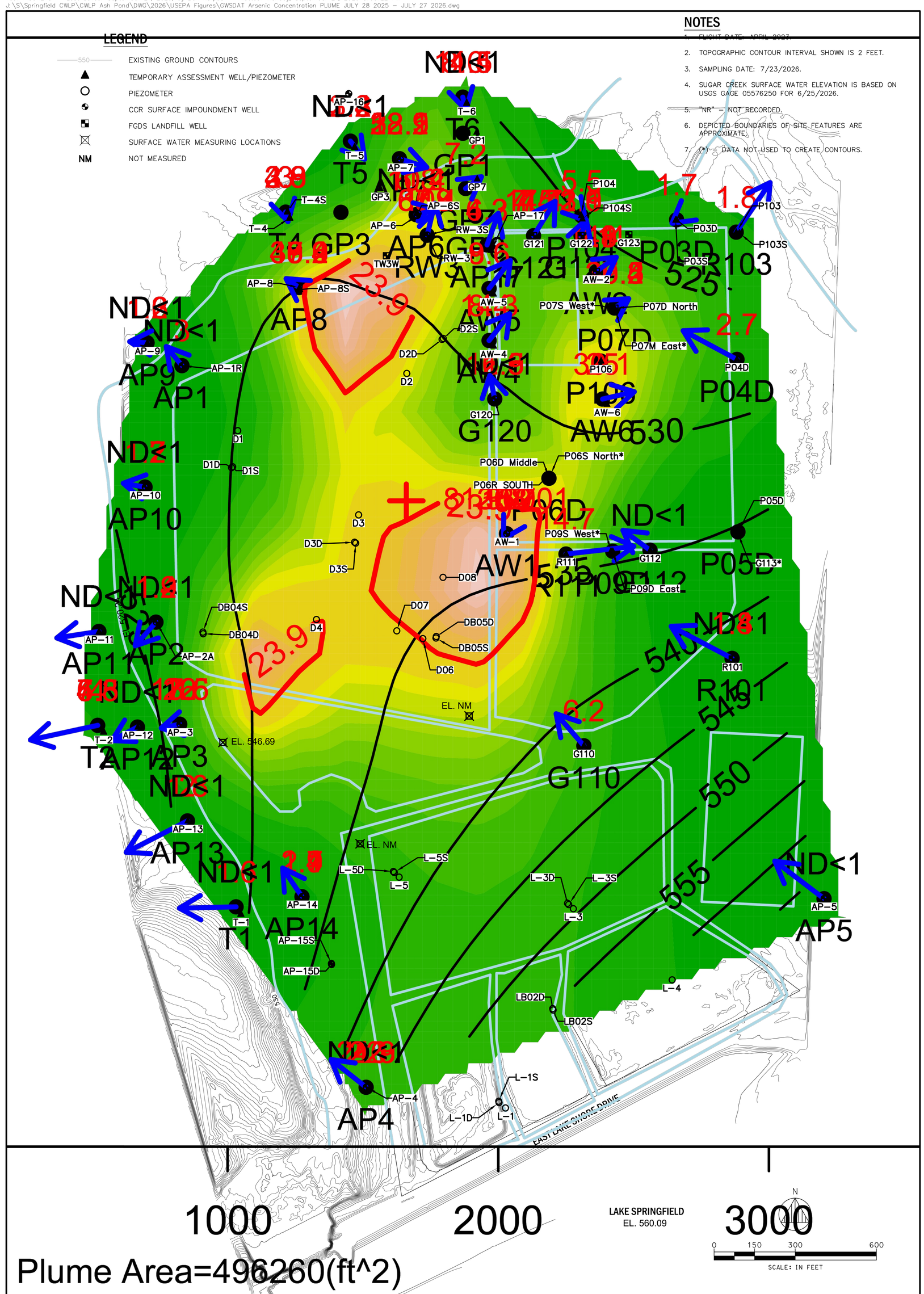
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Figure 5: GWSDAT Arsenic Plume - July 27, 2025 to July 28, 2026

Tab: FIGURE 5 Last Saved: September 21, 2026, by Ben Karpus Plotted: Monday, September 21, 2026 3:00:22 PM
J:\S\Springfield CWLP\CWLP Ash Pond\DWG\2026\USEPA Figures\GWSDAT Arsenic Concentration PLUME JULY 28 2025 – JULY 27 2026.dwg



Plume Area=496260(ft^2)

FIG. 5

GWSDAT ARSENIC PLUME – JULY 28, 2025 THROUGH JULY 27, 2026

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Figure 6: SURFER Arsenic Plume – July 28, 2026

LEGEND

- 550 — EXISTING GROUND CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL/PIEZOMETER
- ○ PIEZOMETER
- ◔ CCR SURFACE IMPOUNDMENT WELL
- ▪ FGDS LANDFILL WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS
- NM NOT MEASURED

NOTES

1. FLIGHT DATE: APRIL 2023.
2. TOPOGRAPHIC CONTOUR INTERVAL SHOWN IS 2 FEET.
3. SAMPLING DATE: 7/23/2026.
4. SUGAR CREEK SURFACE WATER ELEVATION IS BASED ON USGS GAGE 05576250 FOR 6/25/2026.
5. "NR" – NOT RECORDED.
6. DEPICTED BOUNDARIES OF SITE FEATURES ARE APPROXIMATE.
7. (*) – DATA NOT USED TO CREATE CONTOURS.
8. GROUNDWATER PROTECTION STANDARD (GWPS) FOR TOTAL ARSENIC = 0.0239 mg/L.

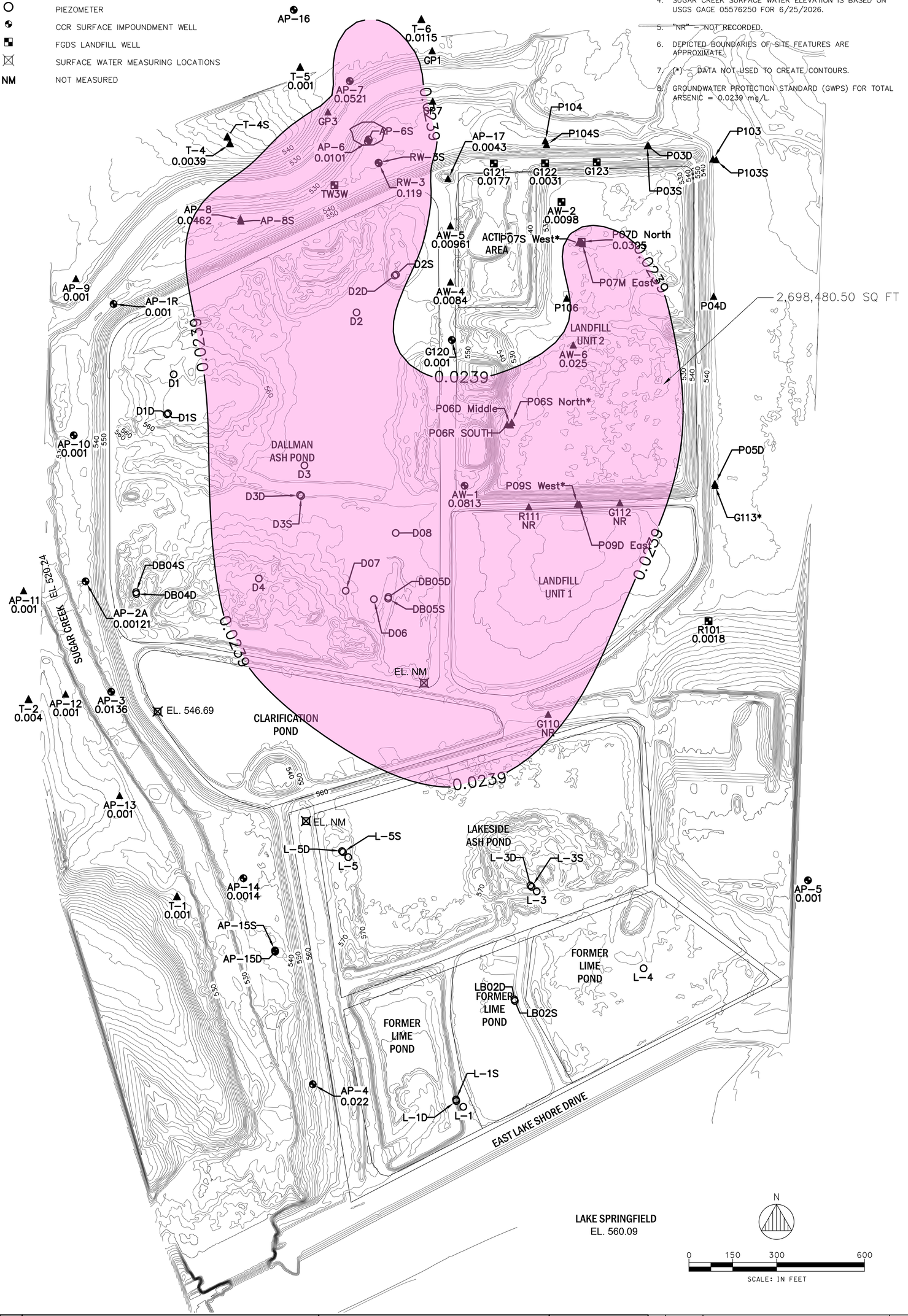


FIG. 6

ARSENIC PLUME – JULY 27, 2026

PREPARED FOR

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PROJECT ID: 4926.1208.00

DATE: AUGUST 2026

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APPENDIX A:
BORING LOGS

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Site Information:
Name: CWLP
Location: 201 East Lake Shore Drive
County: Sangamon
Site No.: 1995-243-LFM
AEI No.: 260244

Location:
Coord. System: State Planar
Northing: 1130282.395
Easting: 2456393.82

Weather: 60's, clear, breezy

Boring Information:
Boring No: AW-4
Well No: AW-4
Surf Elev.: 552.894

Depth Information:
Total: 57.5
Auger: 57.0
Core: 0.0

Drilling Contractor:
Contractor Name: Skinner, LTD.
City: Hindsboro, IL
Equipment: 850 CME 4.25" HSA, 5' CB, 2' SS

Personnel:
Geologist: Nathan Beck
Driller: Todd Skinner
Helper(s): C. Buckler, Adam

Dates:
Start: 4/30/2026
Finish: 4/30/2026

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
							Ground Surface	552.9
0							Asphault	
							Gravel	
	1		0.9				Bluish grey (5/1 5B) silty Clay, moist, with some gravel	550.0
5							Light grey (7/1 10YR) silty Clay, with green (30%) and brown (30%) mottles	
	2		5.0				Dark grey (4/1 10YR) silty Clay, moist	545.0
							Light grey green (7/1 10GY) Silt	
10							Light grey (7/1 10YR) silty Clay	
	3		4.3				Very dark grey (3/1 10YR) silty Clay, with green mottles	540.0
							Light olive (6/3 5Y) silty Clay, with green mottles, moist	
15							Dark grey (4/1 10YR) Silt, moist, with trace clay	
	4		5.0				Olive (4/4 5GY) silty Clay, moist, with light grey mottles	535.0
20							Grey (5/1 10YR) clayey Silt, dry, with organics	

Notes: Augers stopped at 57 feet

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Boring Information: AW-4 Boring No: AW-4 Well No: AW-4

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
	5		5.0				Olive (4/4 5GY) silty Clay, moist, with organics and black mottles, grades to brown	530.0
25	6		5.0				Yellowish brown (6/4 10YR) silty Clay, soft, wet, with light grey (7/1 10YR) mottles	525.0
30	7		5.0					520.0
35							grades to light grey (7/1 10YR), with brown mottles	
	8		4.6				Grey (6/1 10YR) sandy Clay, moist	515.0
							Brown (4/6 10YR) Sand, with some clay and gravel, moist	
40							Dark grey (4/1 10YR) clayey Silt, firm, dry	

Notes: Augers stopped at 57 feet

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Boring Information: AW-4 Boring No: AW-4 Well No: AW-4

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
	9		4.1				Dark grey (4/1 10YR) silty Clay, moist, with some fine to medium grain sized sand	510.0
45							Dark grey (4/1 10YR) medium grain sized Sand, with few organics	
	10		4.0				Greyish green (5/2 5GY) silty Clay, very moist, soft	505.0
50							grades to sandy Clay, moist	
	11		3.9				Dark grey (4/1 10YR) medium to coarse grain sized Sand, with clay and gravel, wet	500.0
55	12		1.5				Dark grey (4/1 10YR) weathered Shale, dry	
	13		0.5	60\6				
							End of Boring = 57.5 Feet	495.0
60								

Notes: Augers stopped at 57 feet

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Site Information:
Name: CWLP
Location: 201 East Lake Shore Drive
County: Sangamon
Site No.: 1995-243-LFM
AEI No.: 260244

Location:
Coord. System: State Planar
Northing: 1130474.33
Easting: 2456386.386

Weather: 60's, clear, breezy

Boring Information:
Boring No: AW-5
Well No: AW-5
Surf Elev.: 552.27

Depth Information:
Total: 60.0
Auger: 60.0
Core: 0.0

Drilling Contractor:
Contractor Name: Skinner, LTD.
City: Hindsboro, IL
Equipment: 850 CME 4.25" HSA, 5' CB, 2' SS

Personnel:
Geologist: Nathan Beck
Driller: Todd Skinner
Helper(s): C. Buckler, Adam

Dates:
Start: 4/28/2026
Finish: 4/29/2026

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
							Ground Surface	552.3
0							Crushed rock (road)	
	1		0.5				Grey (5/1 10YR) clayey silt, moist, with brown mottles and little sand	550.0
5								
	2		4.5				Olive (4/4 5Y) silty Clay, moist, grey mottles	545.0
							Very dark grey (3/1 10YR) clayey Silt, trace brown mottles	
10								
	3		4.85				Olive brown (4/4 2.5Y) silty Clay, moist, with grey and dark grey mottles	540.0
							Very dark grey (3/1 10YR) clayey Silt, moist, trace green mottles	
15								
	4		4.0				grades to light grey (7/1 10YR) with brown mottles, moist	535.0
							Dark olive (3/4 10Y) silty Clay, moist, dark grey mottles	
20							Dark brownish (4/2 10YR) clayey Silt	

Notes:

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Boring Information: AW-5 Boring No: AW-5 Well No: AW-5

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
							Yellowish brown (5/8 10YR) clayey Sand, fine to medium sized grain	
	5		3.4				Black (2/1 10YR) Silt, organics, dry	530.0
							Dark grey (4/1 10YR) silty Clay, grading to olive (4/4 5Y)	
25								
	6		5.0					525.0
							grades to light grey (7/1 10YR), with olive and brown mottles	
30								
	7		5.0					520.0
							Olive grey (5/2 5Y) silty Clay, interbedded with white silt, moist	
35								
	8		4.4				Grey (5/1 10YR) Clay, wet, sticky, plasticy, ductile	515.0
40							Dark brownish grey (4/2 10YR) silty Clay, trace shell fragments, soft	

Notes:

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Boring Information: AW-5 Boring No: AW-5 Well No: AW-5

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
								510.0
	9		4.2					
45							Grey (5/1 10YR) silty Clay	
	10		4.8					505.0
							Grey (5/1 10YR) clayey Sand	
50							Grey (5/1 10YR) silty Clay	
	11		2.75					500.0
55							Grey (5/1 10YR) Sand, coarse to medium grain size, with clay, saturated	
	12		3.11					495.0
	13		0.4	60\5			Grey (5/1 10YR) weathered Shale	
60								

Notes:

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Site Information:
Name: CWLP
Location: 201 East Lake Shore Drive
County: Sangamon
Site No.: 1995-243-LFM
AEI No.: 260244

Location:
Coord. System: State Planar
Northing: 1130083.277
Easting: 2456818.905

Weather: 60's, clear, breezy

Boring Information:
Boring No: AW-6
Well No: AW-6
Surf Elev.: 524.672

Depth Information:
Total: 31.5
Auger: 31.0
Core: 0.0

Drilling Contractor:
Contractor Name: Skinner, LTD.
City: Hindsboro, IL
Equipment: 850 CME, 4.25" HSA, 5' CB, 2' SS

Personnel:
Geologist: Nathan Beck
Driller: Todd Skinner
Helper(s): C. Buckler, Adam

Dates:
Start: 4/30/2026
Finish: 4/30/2026

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
0							Ground Surface	524.7
	1		4.9				Dark grey (4/1 10YR) silty Clay, with brown mottles, moist, with many organics	
5								520.0
	2		5.0				Black (2/1 10YR) and brown (4/4 7.5YR) Sand, medium to fine grain sized, with clay and trace gravel	
							Very dark grey (3/1 10YR) silty Clay, moist	515.0
10							with light grey (7/1 10YR) silt seams	
	3		5.0				Very dark grey (3/1 10YR) silty Clay, moist	
							Light bluish grey (7/1 10B) silty Clay, wet, ductile	
							Very dark grey (3/1 10YR) clayey Silt, wet	
15							Light bluish grey (7/1 10B) silty Clay, wet	510.0
	4		4.0				with thin sand seams	
20							Light bluish grey (7/1 10B) Clay, wet	505.0

Notes: Augers stopped at 31 feet

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Boring Information: AW-6 Boring No: AW-6 Well No: AW-6

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
	5		4.5				grades to sandy Clay	
							Light greenish grey (5/1 10Y) sandy Clay, medium sized grains	500.0
25								
	6		3.2				Light greenish grey (5/1 10Y) medium grain sized Sand, with clay, wet	
							Olive grey (5/2 5Y) gravelly coarse to medium grain sized Sand, saturated	
							Grey (5/1 10YR) gravelly Clay, hard, dry, with medium grain sized sand	495.0
30	7		1.2	6 14 46\4			Grey (6/1 10YR) weathered Shale	
							End of Boring = 31.5 Feet	
35								490.0
40								485.0

Notes: Augers stopped at 31 feet

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Site Information:
Name: CWLP
Location: 201 East Lake Shore Drive
County: Sangamon
Site No.: 1995-243-LFM
AEI No.: 260244

Location:
Coord. System: State Planar
Northing: 1130634.534
Easting: 2456370.917

Weather: 60's, clear, breezy

Boring Information:
Boring No: AP17
Well No: AP17
Surf Elev.: 553.31

Depth Information:
Total: 59.0
Auger: 58.0
Core: 0.0

Drilling Contractor:
Contractor Name: Skinner, LTD.
City: Hindsboro, IL
Equipment: 850 CME 4.25" HSA, 5' CB, 2' SS

Personnel:
Geologist: Nathan Beck
Driller: Todd Skinner
Helper(s): C. Buckler, Adam

Dates:
Start: 4/28/2026
Finish: 4/28/2026

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
							Ground Surface	553.3
0							Brown (4/4 7.5YR) clayey Silt, with organics, > 1 inch black ash seam near bottom	
	1		4.0				Brown (5/3 7.5 YR) clayey Silt, organics	
								550.0
							Yellowish brown (6/4 7.5YR) sandy Clay, very moist	
5	2		3.4				Very dark (3/1 10YR) silty Clay, moist, with brown mottles and some organics	
								545.0
							Very dark grey (3/1 10YR), Silt, some clay	
10	3		4.6				grades to clayey Silt, soft, moist	
								540.0
15							Grey (5/1 10YR) Silt, with clay, moist, olive mottles	
	4		3.8				Grey (5/1 10YR) silty Clay, some brown sand and light blueish grey and olive mottles	
								535.0
20								

Notes: Augers stopped at 58 feet

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Boring Information: AP17 Boring No: AP17 Well No: AP17

- Continuous Barrel (CB) | - Split Spoon (SS) | - Shelby Tube | - Core | - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
	5		3.6				Light grey (7/1 10YR) silty Clay, with some brown mottles, some fine sand, moist	
							soft, wet	530.0
25	6		4.0				Pale olive (6/3 5Y) Clay soft, wet	
							grades to light grey (7/1 10YR) with brown mottles	
							Light grey (7/1 10YR) clayey Silt, with brown mottles	
							Light brownish (7/2 10YR) grey silty Clay, moist	525.0
30	7		5.0				grades to light grey with brown mottles	
							Grey (6/1 10YR) silty Clay, moist, with dark brown mottles	520.0
35	8		5.0				Grey (5/1 10YR) Clay, sticky, plasticy, with some brown mottles, soft	515.0
40							Very dark grey (3/1 10YR) clayey Silt, trace grey mottles, very wet, soft	

Notes: Augers stopped at 58 feet

Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, IL 62711

FIELD BORING LOG

Boring Information: AP17 Boring No: AP17 Well No: AP17

- Continuous Barrel (CB) - Split Spoon (SS) - Shelby Tube - Core - Blind Drill

Depth (ft)	Run No.	Sample Type	Sample Recov.	Blow Count	qu/su (tsf)	Lithology	Description/Comments	Elev. (MSL)
	9		5.0				grades to grey (5/1 10YR)	
							Grey (5/1 10YR) silty Clay, very wet, soft	510.0
45	10		5.0				Grey (6/1 10YR) silty Clay, very soft, saturated, ductile	505.0
50	11		3.6				Dark grey (4/1 10YR) Sand, with clay, trace brown mottles, soft, saturated, medium and fine grained sized	500.0
55	12		3.3					
	13		0.7	17 60\5			Grey (4/1 YR10) weathered Shale	495.0
60							End of Boring = 59 Feet	

Notes: Augers stopped at 58 feet

APPENDIX B:
WELL CONSTRUCTION LOGS

Illinois Environmental Protection Agency — Well Completion Report

Site #: 1678250020 County: Sangamon County Well #: AW-4

Site Name: FGDS Development Borehole #: AW-4

Coordinates: X 1130282.395 Y 2456393.82 (or) Latitude: 39 ° 46 ' 9 " Longitude: 89 ° 35 ' 53 "

Surveyed by: Andrews Engineering IL Registration #:

Drilling Contractor: Skinner, LTD. Consulting Firm: Andrews Engineering

Driller: Todd Skinner Geologist: Nathan Beck

Drilling Method: 850 CME, 4.25 ID HSA w/ 5' CB and 2' SS Logged by: Nathan Beck

Drilling Fluids (type): n/a Report Form Completed by: Nathan Beck

Date Well Started: 4/29/2026 Date Well Finished: 4/29/2026 Date Form Completed: 5/6/2026

ANNULAR SPACE DETAILS

Type of surface seal: Concrete

Type of annular sealant: Bentonite Grout

Installation method: Tremie Pipe

Setting time: 24+ Hours

Type of bentonite seal: Bentonite Pellets

Installation method: Free drop

Setting time: 30+ minutes

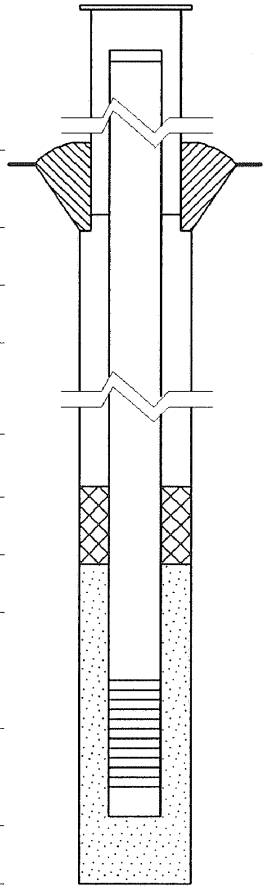
Type of sand pack: Quartz Sand

Grain size: 20/40 (sieve size)

Installation method: Free drop

Type of backfill material: n/a (if applicable)

Installation method: n/a



	ELEVATION (MSL)®	DEPTH (BGS)*	(0.01 ft)
Top of Protective Casing	552.93	-0.04	
Top of Riser Pipe	552.56	0.33	
Ground Surface	552.89	0.00	
Top of Annular Sealant	550.89	2.00	
Static Water Level Measured on (after completion)			
Top of Seal	510.09	42.8	
Top of Sandpack	507.89	45.00	
Top of Screen	506.22	46.67	
Bottom of Screen	496.44	56.45	
Bottom of Well	495.89	57.00	
Bottom of Borehole	495.39	57.0	

® Referenced to a National Geodetic Vertical Datum
* positive (+) values below GS, negitive (-) values above GS

WELL CONSTRUCTION MATERIALS

Protective Casing	Annodized Alumium
Riser Pipe Above W.T.	PVC
Riser Pipe Below W.T.	PVC
Screen	Prepacked PVC

CASING MEASUREMENTS

Diameter of Borehole (in)	8.25
ID of Riser Pipe (in)	2.00
Protective Casing Length (ft)	5.00
Riser Pipe Length (ft)	46.34
Bottom of Screen to End Cap (ft)	0.55
Screen Length [1st slot to last slot] (ft)	9.78
Total Length of Casing (ft)	56.67
Screen Slot Size*	0.01 (#10)

*Hand-slotted well screens are unacceptable.

Illinois Environmental Protection Agency — Well Completion Report

Site #: 1678250020 County: Sangamon County Well #: AW-5

Site Name: FGDS Development Borehole #: AW-5

Coordinates: X 2456386.386 Y 1130474.33 (or) Latitude: 39 ° 46 ' 11 " Longitude: 89 ° 35 ' 53 "

Surveyed by: Andrews Engineering IL Registration #:

Drilling Contractor: Skinner, LTD. Consulting Firm: Andrews Engineering

Driller: Todd Skinner Geologist: Nathan Beck

Drilling Method: 850 CME, 4.25 ID HSA w/ 5' CB and 2' SS Logged by: Nathan Beck

Drilling Fluids (type): n/a Report Form Completed by: Nathan Beck

Date Well Started: 4/28/2026 Date Well Finished: 4/29/2026 Date Form Completed: 5/6/2026

ANNULAR SPACE DETAILS

Type of surface seal: Concrete

Type of annular sealant: Bentonite Grout

Installation method: Tremie Pipe

Setting time: 24+ Hours

Type of bentonite seal: Bentonite Pellets

Installation method: Free drop

Setting time: 30+ minutes

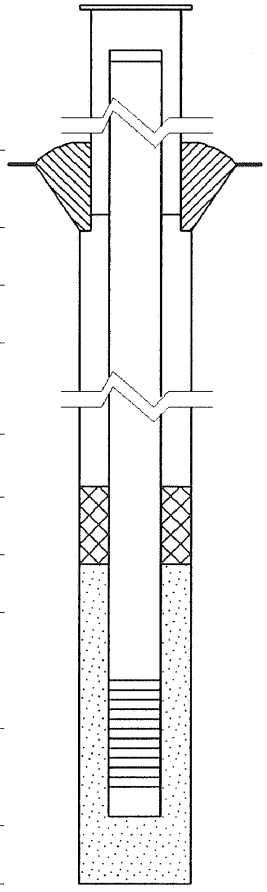
Type of sand pack: Quartz Sand

Grain size: 20/40 (sieve size)

Installation method: Free drop

Type of backfill material: Quartz Sand (if applicable)

Installation method: Free drop



ELEVATION (MSL)®	DEPTH (BGS)* (0.01 ft)	
552.17	0.10	Top of Protective Casing
551.83	0.44	Top of Riser Pipe
552.27	0.00	Ground Surface
550.27	2.00	Top of Annular Sealant
		Static Water Level Measured on (after completion)
506.97	45.30	Top of Seal
504.77	47.50	Top of Sandpack
503.07	49.20	Top of Screen
493.37	58.90	Bottom of Screen
492.77	59.50	Bottom of Well
492.27	60	Bottom of Borehole

® Referenced to a National Geodetic Vertical Datum
* positive (+) values below GS, negitive (-) values above GS

WELL CONSTRUCTION MATERIALS

Protective Casing	Annodized Alumium
Riser Pipe Above W.T.	PVC
Riser Pipe Below W.T.	PVC
Screen	Prepacked PVC

CASING MEASUREMENTS

Diameter of Borehole (in)	8.25
ID of Riser Pipe (in)	2.00
Protective Casing Length (ft)	5.00
Riser Pipe Length (ft)	49.64
Bottom of Screen to End Cap (ft)	0.60
Screen Length (1st slot to last slot) (ft)	9.70
Total Length of Casing (ft)	59.94
Screen Slot Size*	0.01 (#10)

*Hand-slotted well screens are unacceptable.

Illinois Environmental Protection Agency — Well Completion Report

Site #: 1678250020 County: Sangamon County Well #: AW-6

Site Name: FGDS Development Borehole #: AW-6

Coordinates: X 2456818.905 Y 1130083.277 (or) Latitude: 39 ° 46 ' 7 " Longitude: 89 ° 35 ' 48 "

Surveyed by: Andrews Engineering IL Registration #:

Drilling Contractor: Skinner, LTD. Consulting Firm: Andrews Engineering

Driller: Todd Skinner Geologist: Nathan Beck

Drilling Method: 850 CME, 4.25 ID HSA w/ 5' CB and 2' SS Logged by: Nathan Beck

Drilling Fluids (type): n/a Report Form Completed by: Nathan Beck

Date Well Started: 4/28/2026 Date Well Finished: 4/28/2026 Date Form Completed: 5/6/2026

ANNULAR SPACE DETAILS

Type of surface seal: Concrete

Type of annular sealant: Bentonite Grout

Installation method: Tremie Pipe

Setting time: 24+ Hours

Type of bentonite seal: Bentonite Pellets

Installation method: Free drop

Setting time: 30+ minutes

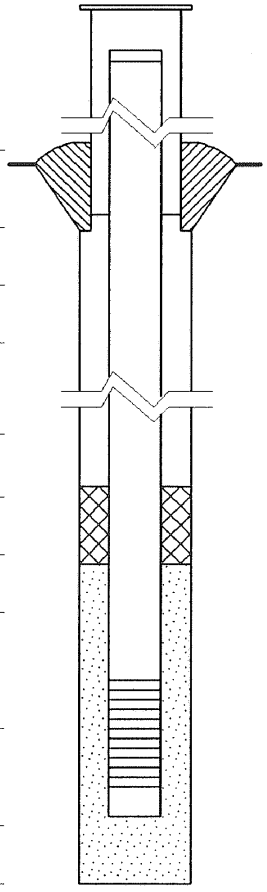
Type of sand pack: Quartz Sand

Grain size: 20/40 (sieve size)

Installation method: Free drop

Type of backfill material: n/a (if applicable)

Installation method: n/a



ELEVATION (MSL)®	DEPTH (BGS)* (0.01 ft)	
527.28	-2.61	Top of Protective Casing
527.11	-2.44	Top of Riser Pipe
524.67	0.00	Ground Surface
522.67	2.00	Top of Annular Sealant
		Static Water Level Measured on (after completion)
502.97	21.70	Top of Seal
500.77	23.90	Top of Sandpack
498.95	25.72	Top of Screen
494.24	30.43	Bottom of Screen
493.67	31.00	Bottom of Well
493.17	31.0	Bottom of Borehole

® Referenced to a National Geodetic Vertical Datum
* positive (+) values below GS, negitive (-) values above GS

WELL CONSTRUCTION MATERIALS

Protective Casing	Annodized Alumium
Riser Pipe Above W.T.	PVC
Riser Pipe Below W.T.	PVC
Screen	Prepacked PVC

CASING MEASUREMENTS

Diameter of Borehole (in)	8.25
ID of Riser Pipe (in)	2.00
Protective Casing Length (ft)	5.00
Riser Pipe Length (ft)	28.16
Bottom of Screen to End Cap (ft)	0.57
Screen Length (1st slot to last slot) (ft)	4.71
Total Length of Casing (ft)	33.44
Screen Slot Size*	0.01 (#10)

*Hand-slotted well screens are unacceptable.

Illinois Environmental Protection Agency — Well Completion Report

Site #: 1678250020 County: Sangamon County Well #: AP-17

Site Name: FGDS Development Borehole #: AP-17

Coordinates: X 1130634.534 Y 2456370.917 (or) Latitude: 39 ° 46 ' 12 " Longitude: 89 ° 35 ' 54 "

Surveyed by: Andrews Engineering IL Registration #:

Drilling Contractor: Skinner, LTD. Consulting Firm: Andrews Engineering

Driller: Todd Skinner Geologist: Nathan Beck

Drilling Method: 850 CME, 4.25 ID HSA w/ 5' CB and 2' SS Logged by: Nathan Beck

Drilling Fluids (type): n/a Report Form Completed by: Nathan Beck

Date Well Started: 4/28/2026 Date Well Finished: 4/28/2026 Date Form Completed: 5/6/2026

ANNULAR SPACE DETAILS

Type of surface seal: Concrete

Type of annular sealant: Bentonite Grout

Installation method: Tremie Pipe

Setting time: 24+ Hours

Type of bentonite seal: Bentonite Pellets

Installation method: Free drop

Setting time: 30+ minutes

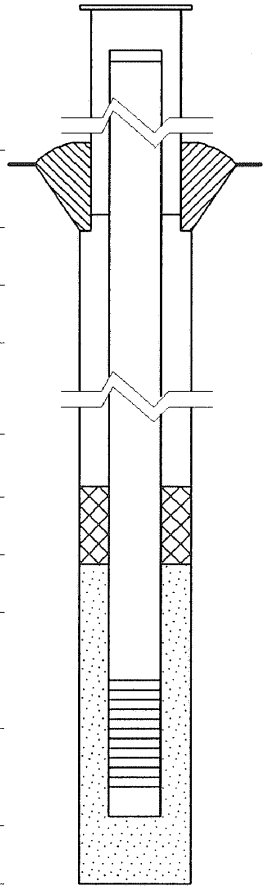
Type of sand pack: Quartz Sand

Grain size: 20/40 (sieve size)

Installation method: Free drop

Type of backfill material: n/a (if applicable)

Installation method: n/a



	ELEVATION (MSL)®	DEPTH (BGS)*	(0.01 ft)
Top of Protective Casing	555.70	-2.39	
Top of Riser Pipe	555.62	-2.31	
Ground Surface	553.31	0.00	
Top of Annular Sealant	551.31	2.00	
Static Water Level Measured on (after completion)			
Top of Seal	509.51	43.80	
Top of Sandpack	507.31	46.00	
Top of Screen	505.57	47.74	
Bottom of Screen	495.87	57.44	
Bottom of Well	495.31	58.00	
Bottom of Borehole	495.31	58.00	

® Referenced to a National Geodetic Vertical Datum
* positive (+) values below GS, negitive (-) values above GS

WELL CONSTRUCTION MATERIALS

Protective Casing	Annodized Alumium
Riser Pipe Above W.T.	PVC
Riser Pipe Below W.T.	PVC
Screen	Prepacked PVC

CASING MEASUREMENTS

Diameter of Borehole (in)	8.25
ID of Riser Pipe (in)	2.00
Protective Casing Length (ft)	5.00
Riser Pipe Length (ft)	50.05
Bottom of Screen to End Cap (ft)	0.56
Screen Length [1st slot to last slot] (ft)	9.70
Total Length of Casing (ft)	60.31
Screen Slot Size*	0.01 (#10)

*Hand-slotted well screens are unacceptable.

APPENDIX C:
GROUNDWATER ANALYTICAL DATA

January 13, 2026

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 25110404

Dear Eric Staley:

TEKLAB, INC received 22 samples on 11/13/2025 4:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 25110404
Report Date: 13-Jan-26

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Client: City Water, Light & Power **Work Order:** 25110404

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Jan-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
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Client Project: Ash Pond Monitoring Wells
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Qualifiers

# - Unknown hydrocarbon	B - Analyte detected in associated Method Blank
C - RL shown is a Client Requested Quantitation Limit	E - Value above quantitation range
H - Holding times exceeded	I - Associated internal standard was outside method criteria
J - Analyte detected below quantitation limits	M - Manual Integration used to determine area response
ND - Not Detected at the Reporting Limit	R - RPD outside accepted recovery limits
S - Spike Recovery outside recovery limits	T - TIC(Tentatively identified compound)
X - Value exceeds Maximum Contaminant Level	

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 25110404
Report Date: 13-Jan-26

Cooler Receipt Temp: 17.5 °C

An employee of Teklab, Inc. collected the sample(s).

A15S and A15D are not required this quarter per Eric Staley. SAH 11/12/25

Radium-226 & -228 analysis was performed by Alliance Technical Group. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville

Address 120 United Drive
Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 120 United Drive
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Client Project: Ash Pond Monitoring Wells

Work Order: 25110404

Report Date: 13-Jan-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	1/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2026	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 25110404

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Jan-26

Lab ID: 25110404-001 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 11/12/2025 13:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	11/12/2025 13:56	R374970
Depth to water	*	-5.00		**10.78**	ft	1	11/12/2025 13:56	R374970
Depth to water from measuring point	*	0		**13.48**	ft	1	11/12/2025 13:56	R374970
Elevation of groundwater surface	*	0		**526.02**	ft	1	11/12/2025 13:56	R374970
Measuring Point Elevation	*	0		**539.50**	ft	1	11/12/2025 13:56	R374970
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	11/12/2025 13:56	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**130**	NTU	1	11/12/2025 13:56	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.8**	°F	1	11/12/2025 13:56	R374970
SW-846 9040B								
pH, Field	*	1.00		**7.09**		1	11/12/2025 13:56	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**780**	µmhos/cm @25C	1	11/12/2025 13:56	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**454**	mg/L	1	11/17/2025 14:23	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2025 16:25	R374691
Chloride	NELAP	5.00		**27.1**	mg/L	10	11/13/2025 16:25	R374691
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/13/2025 16:25	R374691
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**167**	µg/L	1	11/18/2025 10:15	247867
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/18/2025 10:15	247867
Boron	NELAP	20.0		**160**	µg/L	1	11/18/2025 10:15	247867
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/18/2025 10:15	247867
Calcium	NELAP	0.100	B	**71.1**	mg/L	1	11/18/2025 10:15	247867
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/18/2025 10:15	247867
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/18/2025 10:15	247867
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/18/2025 10:15	247867
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/18/2025 10:15	247867
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**3.9**	µg/L	5	11/14/2025 19:26	247867
Arsenic	NELAP	1.0		**108**	µg/L	5	11/13/2025 20:27	247867
Lithium	*	3.0		**5.7**	µg/L	5	11/14/2025 19:26	247867
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/13/2025 20:27	247867
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/14/2025 19:26	247867
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/14/2025 19:04	247892
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.38**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 11/12/2025 13:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.30**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 11/13/2025 14:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	11/13/2025 14:25	R374970
Depth to water	*	-5.00		**9.62**	ft	1	11/13/2025 14:25	R374970
Depth to water from measuring point	*	0		**11.89**	ft	1	11/13/2025 14:25	R374970
Elevation of groundwater surface	*	0		**523.48**	ft	1	11/13/2025 14:25	R374970
Measuring Point Elevation	*	0		**535.37**	ft	1	11/13/2025 14:25	R374970
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	11/13/2025 14:25	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**15**	NTU	1	11/13/2025 14:25	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.6**	°F	1	11/13/2025 14:25	R374970
SW-846 9040B								
pH, Field	*	1.00		**4.86**		1	11/13/2025 14:25	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2140**	µmhos/cm @25C	1	11/13/2025 14:25	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1590**	mg/L	1	11/18/2025 10:51	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/16/2025 21:25	R374783
Chloride	NELAP	5.00		**51.8**	mg/L	10	11/16/2025 21:25	R374783
Sulfate	NELAP	10.0		**828**	mg/L	10	11/16/2025 21:25	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**248**	µg/L	1	11/17/2025 11:59	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 11:59	247986
Boron	NELAP	200		**21400**	µg/L	10	11/19/2025 16:50	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 11:59	247986
Calcium	NELAP	0.100		**251**	mg/L	1	11/17/2025 11:59	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 11:59	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 11:59	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 11:59	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 11:59	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:39	247986
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:39	247986
Lithium	*	3.0		**8.6**	µg/L	5	11/18/2025 13:43	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:39	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 13:43	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:06	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.44**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.10**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439
Radium-228 Uncertainty	*	0		**0.34**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 11/12/2025 13:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	11/12/2025 13:54	R374970
Depth to water	*	-5.00		**7.12**	ft	1	11/12/2025 13:54	R374970
Depth to water from measuring point	*	0		**9.62**	ft	1	11/12/2025 13:54	R374970
Elevation of groundwater surface	*	0		**526.48**	ft	1	11/12/2025 13:54	R374970
Measuring Point Elevation	*	0		**536.10**	ft	1	11/12/2025 13:54	R374970
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	11/12/2025 13:54	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**20**	NTU	1	11/12/2025 13:54	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.6**	°F	1	11/12/2025 13:54	R374970
SW-846 9040B								
pH, Field	*	1.00		**4.55**		1	11/12/2025 13:54	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1740**	µmhos/cm @25C	1	11/12/2025 13:54	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1190**	mg/L	1	11/17/2025 14:23	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2025 16:38	R374691
Chloride	NELAP	5.00		**37.0**	mg/L	10	11/13/2025 16:38	R374691
Sulfate	NELAP	10.0		**389**	mg/L	10	11/13/2025 16:38	R374691
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**74.9**	µg/L	1	11/18/2025 10:17	247867
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/18/2025 10:17	247867
Boron	NELAP	20.0		**3150**	µg/L	1	11/18/2025 10:17	247867
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/18/2025 10:17	247867
Calcium	NELAP	0.100	B	**213**	mg/L	1	11/18/2025 10:17	247867
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/18/2025 10:17	247867
Cobalt	NELAP	5.0		**7.8**	µg/L	1	11/18/2025 10:17	247867
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/18/2025 10:17	247867
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/18/2025 10:17	247867
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**2.1**	µg/L	5	11/14/2025 19:32	247867
Arsenic	NELAP	1.0		**1.4**	µg/L	5	11/13/2025 20:32	247867
Lithium	*	3.0		**6.1**	µg/L	5	11/14/2025 19:32	247867
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/13/2025 20:32	247867
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/14/2025 19:32	247867
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/14/2025 19:06	247892
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.38**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 11/12/2025 13:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.30**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power **Work Order:** 25110404

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Jan-26

Lab ID: 25110404-004 **Client Sample ID:** AP-3

Matrix: GROUNDWATER **Collection Date:** 11/12/2025 13:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	11/12/2025 13:17	R374970
Depth to water	*	-5.00		**7.33**	ft	1	11/12/2025 13:17	R374970
Depth to water from measuring point	*	0		**9.88**	ft	1	11/12/2025 13:17	R374970
Elevation of groundwater surface	*	0		**525.37**	ft	1	11/12/2025 13:17	R374970
Measuring Point Elevation	*	0		**535.25**	ft	1	11/12/2025 13:17	R374970
Measuring Point Height Above Land Surface	*	0		**2.55**	ft	1	11/12/2025 13:17	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.1**	NTU	1	11/12/2025 13:17	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.9**	°F	1	11/12/2025 13:17	R374970
SW-846 9040B								
pH, Field	*	1.00		**4.93**		1	11/12/2025 13:17	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1740**	µmhos/cm @25C	1	11/12/2025 13:17	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1310**	mg/L	1	11/17/2025 14:23	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2025 16:50	R374691
Chloride	NELAP	5.00		**70.8**	mg/L	10	11/13/2025 16:50	R374691
Sulfate	NELAP	10.0		**588**	mg/L	10	11/13/2025 16:50	R374691
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**117**	µg/L	1	11/18/2025 10:46	247867
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/18/2025 10:46	247867
Boron	NELAP	20.0		**18000**	µg/L	1	11/18/2025 10:46	247867
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/18/2025 10:46	247867
Calcium	NELAP	0.100	B	**192**	mg/L	1	11/18/2025 10:46	247867
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/18/2025 10:46	247867
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/18/2025 10:46	247867
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/18/2025 10:46	247867
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/18/2025 10:46	247867
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**1.5**	µg/L	5	11/14/2025 19:37	247867
Arsenic	NELAP	1.0		**13.5**	µg/L	5	11/13/2025 20:38	247867
Lithium	*	3.0		**6.2**	µg/L	5	11/14/2025 19:37	247867
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/13/2025 20:38	247867
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/14/2025 19:37	247867
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/14/2025 19:13	247892
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.40**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 11/12/2025 13:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.33**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 11/13/2025 13:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.19**	ft	1	11/13/2025 13:43	R374970
Depth to water	*	-5.00		**9.80**	ft	1	11/13/2025 13:43	R374970
Depth to water from measuring point	*	0		**12.94**	ft	1	11/13/2025 13:43	R374970
Elevation of groundwater surface	*	0		**542.66**	ft	1	11/13/2025 13:43	R374970
Measuring Point Elevation	*	0		**555.60**	ft	1	11/13/2025 13:43	R374970
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	11/13/2025 13:43	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**62**	NTU	1	11/13/2025 13:43	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.0**	°F	1	11/13/2025 13:43	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.76**		1	11/13/2025 13:43	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**914**	µmhos/cm @25C	1	11/13/2025 13:43	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**532**	mg/L	1	11/18/2025 10:51	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/16/2025 21:37	R374783
Chloride	NELAP	5.00		**12.8**	mg/L	10	11/16/2025 21:37	R374783
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/16/2025 21:37	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**417**	µg/L	1	11/17/2025 11:59	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 11:59	247986
Boron	NELAP	20.0		**91.4**	µg/L	1	11/17/2025 11:59	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 11:59	247986
Calcium	NELAP	0.100		**128**	mg/L	1	11/17/2025 11:59	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 11:59	247986
Cobalt	NELAP	5.0		**6.7**	µg/L	1	11/20/2025 15:22	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 11:59	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 11:59	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:44	247986
Arsenic	NELAP	1.0		**21.9**	µg/L	5	11/18/2025 3:44	247986
Lithium	*	3.0		**9.0**	µg/L	5	11/18/2025 13:49	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:44	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 13:49	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:08	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.47**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.13**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439
Radium-228 Uncertainty	*	0		**0.34**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power **Work Order:** 25110404

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Jan-26

Lab ID: 25110404-006 **Client Sample ID:** AP-5

Matrix: GROUNDWATER **Collection Date:** 11/13/2025 13:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	11/13/2025 13:04	R374970
Depth to water	*	-5.00		**18.32**	ft	1	11/13/2025 13:04	R374970
Depth to water from measuring point	*	0		**20.62**	ft	1	11/13/2025 13:04	R374970
Elevation of groundwater surface	*	0		**563.28**	ft	1	11/13/2025 13:04	R374970
Measuring Point Elevation	*	0		**583.90**	ft	1	11/13/2025 13:04	R374970
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	11/13/2025 13:04	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**1.9**	NTU	1	11/13/2025 13:04	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.6**	°F	1	11/13/2025 13:04	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.83**		1	11/13/2025 13:04	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**788**	µmhos/cm @25C	1	11/13/2025 13:04	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**498**	mg/L	1	11/18/2025 10:51	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/16/2025 21:50	R374783
Chloride	NELAP	5.00		**9.78**	mg/L	10	11/16/2025 21:50	R374783
Sulfate	NELAP	10.0		**70.9**	mg/L	10	11/16/2025 21:50	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**60.4**	µg/L	1	11/17/2025 12:00	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 12:00	247986
Boron	NELAP	20.0		**38.6**	µg/L	1	11/17/2025 12:00	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 12:00	247986
Calcium	NELAP	0.100		**109**	mg/L	1	11/17/2025 12:00	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 12:00	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 12:00	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 12:00	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 12:00	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:50	247986
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:50	247986
Lithium	*	3.0		**4.1**	µg/L	5	11/18/2025 13:54	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:50	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 13:54	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:11	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.37**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439
Radium-228 Uncertainty	*	0		**0.33**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 11/13/2025 12:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	11/13/2025 12:58	R374970
Depth to water	*	-5.00		**8.91**	ft	1	11/13/2025 12:58	R374970
Depth to water from measuring point	*	0		**11.33**	ft	1	11/13/2025 12:58	R374970
Elevation of groundwater surface	*	0		**526.49**	ft	1	11/13/2025 12:58	R374970
Measuring Point Elevation	*	0		**537.82**	ft	1	11/13/2025 12:58	R374970
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	11/13/2025 12:58	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.6**	NTU	1	11/13/2025 12:58	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.6**	°F	1	11/13/2025 12:58	R374970
SW-846 9040B								
pH, Field	*	1.00		**7.06**		1	11/13/2025 12:58	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**737**	µmhos/cm @25C	1	11/13/2025 12:58	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**450**	mg/L	1	11/18/2025 11:02	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**0.53**	mg/L	10	11/16/2025 22:28	R374783
Chloride	NELAP	5.00		**38.0**	mg/L	10	11/16/2025 22:28	R374783
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/16/2025 22:28	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**199**	µg/L	1	11/17/2025 15:58	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 15:58	247986
Boron	NELAP	20.0		**272**	µg/L	1	11/17/2025 15:58	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 15:58	247986
Calcium	NELAP	0.100		**69.8**	mg/L	1	11/17/2025 15:58	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 15:58	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 15:58	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 15:58	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 15:58	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:55	247986
Arsenic	NELAP	1.0		**11.2**	µg/L	5	11/18/2025 3:55	247986
Lithium	*	3.0		**7.5**	µg/L	5	11/18/2025 14:00	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 3:55	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 14:00	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:13	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.41**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439
Radium-228 Uncertainty	*	0		**0.34**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power **Work Order:** 25110404

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Jan-26

Lab ID: 25110404-008 **Client Sample ID:** AP-7

Matrix: GROUNDWATER **Collection Date:** 11/13/2025 12:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	11/13/2025 12:19	R374970
Depth to water	*	-5.00		**11.26**	ft	1	11/13/2025 12:19	R374970
Depth to water from measuring point	*	0		**13.92**	ft	1	11/13/2025 12:19	R374970
Elevation of groundwater surface	*	0		**525.10**	ft	1	11/13/2025 12:19	R374970
Measuring Point Elevation	*	0		**539.02**	ft	1	11/13/2025 12:19	R374970
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	11/13/2025 12:19	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**59**	NTU	1	11/13/2025 12:19	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.4**	°F	1	11/13/2025 12:19	R374970
SW-846 9040B								
pH, Field	*	1.00		**7.06**		1	11/13/2025 12:19	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**903**	µmhos/cm @25C	1	11/13/2025 12:19	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**522**	mg/L	1	11/18/2025 11:03	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**0.53**	mg/L	10	11/16/2025 22:41	R374783
Chloride	NELAP	5.00		**88.5**	mg/L	10	11/16/2025 22:41	R374783
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/16/2025 22:41	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**152**	µg/L	1	11/17/2025 15:58	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 15:58	247986
Boron	NELAP	20.0		**475**	µg/L	1	11/17/2025 15:58	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 15:58	247986
Calcium	NELAP	0.100	S	**55.9**	mg/L	1	11/17/2025 15:58	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 15:58	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 15:58	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 15:58	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 15:58	247986
Matrix spike control limits for CA are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 5:25	247986
Arsenic	NELAP	1.0		**18.2**	µg/L	5	11/18/2025 5:25	247986
Lithium	*	3.0		**10.3**	µg/L	5	11/18/2025 13:04	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 5:25	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 13:04	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:15	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.41**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 11/13/2025 12:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.34**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 11/13/2025 13:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	11/13/2025 13:53	R374970
Depth to water	*	-5.00		**6.58**	ft	1	11/13/2025 13:53	R374970
Depth to water from measuring point	*	0		**9.48**	ft	1	11/13/2025 13:53	R374970
Elevation of groundwater surface	*	0		**527.72**	ft	1	11/13/2025 13:53	R374970
Measuring Point Elevation	*	0		**537.20**	ft	1	11/13/2025 13:53	R374970
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	11/13/2025 13:53	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	11/13/2025 13:53	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.7**	°F	1	11/13/2025 13:53	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.11**		1	11/13/2025 13:53	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1160**	µmhos/cm @25C	1	11/13/2025 13:53	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**550**	mg/L	1	11/18/2025 11:03	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/16/2025 22:53	R374783
Chloride	NELAP	5.00		**24.2**	mg/L	10	11/16/2025 22:53	R374783
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/16/2025 22:53	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**373**	µg/L	1	11/17/2025 16:01	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:01	247986
Boron	NELAP	20.0		**82.1**	µg/L	1	11/17/2025 16:01	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:01	247986
Calcium	NELAP	0.100		**103**	mg/L	1	11/17/2025 16:01	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:01	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:01	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:01	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:01	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:41	247986
Arsenic	NELAP	1.0		**37.2**	µg/L	5	11/18/2025 4:41	247986
Lithium	*	3.0		**6.5**	µg/L	5	11/18/2025 14:05	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:41	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 14:05	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:18	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.59**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**1.4**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.16**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439
Radium-228 Uncertainty	*	0		**0.43**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-010
Client Sample ID: AP-9
Matrix: GROUNDWATER
Collection Date: 11/13/2025 9:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.70**	ft	1	11/13/2025 9:38	R374970
Depth to water	*	-5.00		**11.09**	ft	1	11/13/2025 9:38	R374970
Depth to water from measuring point	*	0		**14.19**	ft	1	11/13/2025 9:38	R374970
Elevation of groundwater surface	*	0		**526.11**	ft	1	11/13/2025 9:38	R374970
Measuring Point Elevation	*	0		**540.30**	ft	1	11/13/2025 9:38	R374970
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	11/13/2025 9:38	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.8**	NTU	1	11/13/2025 9:38	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.0**	°F	1	11/13/2025 9:38	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.57**		1	11/13/2025 9:38	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1070**	µmhos/cm @25C	1	11/13/2025 9:38	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**614**	mg/L	1	11/18/2025 11:03	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/16/2025 23:06	R374783
Chloride	NELAP	5.00		**25.5**	mg/L	10	11/16/2025 23:06	R374783
Sulfate	NELAP	10.0		**15.5**	mg/L	10	11/16/2025 23:06	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**437**	µg/L	1	11/17/2025 16:01	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:01	247986
Boron	NELAP	20.0		**98.5**	µg/L	1	11/17/2025 16:01	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:01	247986
Calcium	NELAP	0.100		**111**	mg/L	1	11/17/2025 16:01	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:01	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:01	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:01	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:01	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:46	247986
Arsenic	NELAP	1.0		**1.6**	µg/L	5	11/18/2025 4:46	247986
Lithium	*	3.0		**5.9**	µg/L	5	11/18/2025 14:11	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:46	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 14:11	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:20	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Combined 226/228 Uncertainty	*	0		**0.42**	+/-	1	12/19/2025 11:15	R377436
Radium-226	*	1.0		**ND**	pci/L	1	12/19/2025 11:15	R377436
Radium-226 Uncertainty	*	0		**0.11**	+/-	1	12/19/2025 11:15	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 11:20	R377439
Radium-228 Uncertainty	*	0		**0.31**	+/-	1	01/02/2026 11:20	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-011
Client Sample ID: AP10
Matrix: GROUNDWATER
Collection Date: 11/12/2025 14:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	11/12/2025 14:32	R374970
Depth to water	*	-5.00		**4.63**	ft	1	11/12/2025 14:32	R374970
Depth to water from measuring point	*	0		**7.73**	ft	1	11/12/2025 14:32	R374970
Elevation of groundwater surface	*	0		**529.77**	ft	1	11/12/2025 14:32	R374970
Measuring Point Elevation	*	0		**537.50**	ft	1	11/12/2025 14:32	R374970
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	11/12/2025 14:32	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.7**	NTU	1	11/12/2025 14:32	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.8**	°F	1	11/12/2025 14:32	R374970
SW-846 9040B								
pH, Field	*	1.00		**5.37**		1	11/12/2025 14:32	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1470**	µmhos/cm @25C	1	11/12/2025 14:32	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**834**	mg/L	1	11/17/2025 14:38	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2025 17:03	R374691
Chloride	NELAP	5.00		**25.9**	mg/L	10	11/13/2025 17:03	R374691
Sulfate	NELAP	10.0		**90.8**	mg/L	10	11/13/2025 17:03	R374691
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**601**	µg/L	1	11/18/2025 10:48	247867
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/18/2025 10:48	247867
Boron	NELAP	20.0		**3880**	µg/L	1	11/18/2025 10:48	247867
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/18/2025 10:48	247867
Calcium	NELAP	0.100	B	**141**	mg/L	1	11/18/2025 10:48	247867
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/18/2025 10:48	247867
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/18/2025 10:48	247867
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/18/2025 10:48	247867
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/18/2025 10:48	247867
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**1.1**	µg/L	5	11/14/2025 19:43	247867
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	11/13/2025 20:44	247867
Lithium	*	3.0		**8.2**	µg/L	5	11/14/2025 19:43	247867
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/13/2025 20:44	247867
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/14/2025 19:43	247867
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/14/2025 19:16	247892
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.55**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**1.0**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.14**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-011
Client Sample ID: AP10
Matrix: GROUNDWATER
Collection Date: 11/12/2025 14:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.41**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-012
Client Sample ID: AP11
Matrix: GROUNDWATER
Collection Date: 11/13/2025 9:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.15**	ft	1	11/13/2025 9:40	R374970
Depth to water	*	-5.00		**12.78**	ft	1	11/13/2025 9:40	R374970
Depth to water from measuring point	*	0		**15.58**	ft	1	11/13/2025 9:40	R374970
Elevation of groundwater surface	*	0		**522.52**	ft	1	11/13/2025 9:40	R374970
Measuring Point Elevation	*	0		**538.10**	ft	1	11/13/2025 9:40	R374970
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	11/13/2025 9:40	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.4**	NTU	1	11/13/2025 9:40	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.9**	°F	1	11/13/2025 9:40	R374970
SW-846 9040B								
pH, Field	*	1.00		**4.79**		1	11/13/2025 9:40	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1270**	µmhos/cm @25C	1	11/13/2025 9:40	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**694**	mg/L	1	11/18/2025 11:03	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/16/2025 23:18	R374783
Chloride	NELAP	5.00		**113**	mg/L	10	11/16/2025 23:18	R374783
Sulfate	NELAP	10.0		**68.9**	mg/L	10	11/16/2025 23:18	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**120**	µg/L	1	11/17/2025 16:02	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:02	247986
Boron	NELAP	20.0		**276**	µg/L	1	11/17/2025 16:02	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:02	247986
Calcium	NELAP	0.100		**133**	mg/L	1	11/17/2025 16:02	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:02	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:02	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:02	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:02	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:52	247986
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:52	247986
Lithium	*	3.0		**4.9**	µg/L	5	11/18/2025 14:16	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:52	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 14:16	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:22	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.34**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.29**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-013
Client Sample ID: AP12
Matrix: GROUNDWATER
Collection Date: 11/13/2025 11:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**510.30**	ft	1	11/13/2025 11:04	R374970
Depth to water	*	-5.00		**15.34**	ft	1	11/13/2025 11:04	R374970
Depth to water from measuring point	*	0		**18.24**	ft	1	11/13/2025 11:04	R374970
Elevation of groundwater surface	*	0		**522.46**	ft	1	11/13/2025 11:04	R374970
Measuring Point Elevation	*	0		**540.70**	ft	1	11/13/2025 11:04	R374970
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	11/13/2025 11:04	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**15**	NTU	1	11/13/2025 11:04	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	11/13/2025 11:04	R374970
SW-846 9040B								
pH, Field	*	1.00		**4.74**		1	11/13/2025 11:04	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1730**	µmhos/cm @25C	1	11/13/2025 11:04	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1150**	mg/L	1	11/18/2025 11:03	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 0:09	R374783
Chloride	NELAP	5.00		**115**	mg/L	10	11/17/2025 0:09	R374783
Sulfate	NELAP	10.0		**395**	mg/L	10	11/17/2025 0:09	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**52.5**	µg/L	1	11/17/2025 16:06	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:06	247986
Boron	NELAP	20.0		**24.9**	µg/L	1	11/17/2025 16:06	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:06	247986
Calcium	NELAP	0.100		**193**	mg/L	1	11/17/2025 16:06	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:06	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:06	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:06	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:06	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:57	247986
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:57	247986
Lithium	*	3.0		**6.2**	µg/L	5	11/18/2025 15:18	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 4:57	247986
Thallium	NELAP	2.0		**2.7**	µg/L	5	11/18/2025 15:18	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:25	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.38**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.33**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-014
Client Sample ID: AP13
Matrix: GROUNDWATER
Collection Date: 11/13/2025 11:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.00**	ft	1	11/13/2025 11:40	R374970
Depth to water	*	-5.00		**16.64**	ft	1	11/13/2025 11:40	R374970
Depth to water from measuring point	*	0		**20.04**	ft	1	11/13/2025 11:40	R374970
Elevation of groundwater surface	*	0		**521.96**	ft	1	11/13/2025 11:40	R374970
Measuring Point Elevation	*	0		**542.00**	ft	1	11/13/2025 11:40	R374970
Measuring Point Height Above Land Surface	*	0		**3.40**	ft	1	11/13/2025 11:40	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**11**	NTU	1	11/13/2025 11:40	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.9**	°F	1	11/13/2025 11:40	R374970
SW-846 9040B								
pH, Field	*	1.00		**5.22**		1	11/13/2025 11:40	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**982**	µmhos/cm @25C	1	11/13/2025 11:40	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**580**	mg/L	1	11/18/2025 12:42	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 0:22	R374783
Chloride	NELAP	5.00		**26.3**	mg/L	10	11/17/2025 0:22	R374783
Sulfate	NELAP	10.0		**120**	mg/L	10	11/17/2025 0:22	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**120**	µg/L	1	11/17/2025 16:07	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:07	247986
Boron	NELAP	20.0		**25.7**	µg/L	1	11/17/2025 16:07	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:07	247986
Calcium	NELAP	0.100		**115**	mg/L	1	11/17/2025 16:07	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:07	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:07	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:07	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:07	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 5:03	247986
Arsenic	NELAP	1.0		**1.8**	µg/L	5	11/18/2025 5:03	247986
Lithium	*	3.0		**11.4**	µg/L	5	11/18/2025 15:23	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 5:03	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 15:23	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:27	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.40**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.10**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.30**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-015
Client Sample ID: AP14
Matrix: GROUNDWATER
Collection Date: 11/13/2025 13:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	11/13/2025 13:14	R374970
Depth to water	*	-5.00		**1.93**	ft	1	11/13/2025 13:14	R374970
Depth to water from measuring point	*	0		**4.73**	ft	1	11/13/2025 13:14	R374970
Elevation of groundwater surface	*	0		**534.87**	ft	1	11/13/2025 13:14	R374970
Measuring Point Elevation	*	0		**539.60**	ft	1	11/13/2025 13:14	R374970
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	11/13/2025 13:14	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**11**	NTU	1	11/13/2025 13:14	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.6**	°F	1	11/13/2025 13:14	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.24**		1	11/13/2025 13:14	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2430**	µmhos/cm @25C	1	11/13/2025 13:14	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1900**	mg/L	1	11/18/2025 12:42	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 0:35	R374783
Chloride	NELAP	5.00		**120**	mg/L	10	11/17/2025 0:35	R374783
Sulfate	NELAP	10.0		**1040**	mg/L	10	11/17/2025 0:35	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**48.6**	µg/L	1	11/17/2025 16:08	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:08	247986
Boron	NELAP	200		**20800**	µg/L	10	11/19/2025 16:51	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:08	247986
Calcium	NELAP	0.100		**317**	mg/L	1	11/17/2025 16:08	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:08	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:08	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:08	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:08	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 5:08	247986
Arsenic	NELAP	1.0		**1.7**	µg/L	5	11/18/2025 5:08	247986
Lithium	*	3.0		**8.0**	µg/L	5	11/18/2025 15:29	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 5:08	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 15:29	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:34	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.63**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.090**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**1.5**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.54**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power **Work Order:** 25110404

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Jan-26

Lab ID: 25110404-016 **Client Sample ID:** T-01

Matrix: GROUNDWATER **Collection Date:** 11/13/2025 12:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**512.70**	ft	1	11/13/2025 12:21	R374970
Depth to water	*	-5.00		**14.55**	ft	1	11/13/2025 12:21	R374970
Depth to water from measuring point	*	0		**14.88**	ft	1	11/13/2025 12:21	R374970
Elevation of groundwater surface	*	0		**520.77**	ft	1	11/13/2025 12:21	R374970
Measuring Point Elevation	*	0		**535.65**	ft	1	11/13/2025 12:21	R374970
Measuring Point Height Above Land Surface	*	0		**0.33**	ft	1	11/13/2025 12:21	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**18**	NTU	1	11/13/2025 12:21	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.3**	°F	1	11/13/2025 12:21	R374970
SW-846 9040B								
pH, Field	*	1.00		**4.54**		1	11/13/2025 12:21	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1810**	µmhos/cm @25C	1	11/13/2025 12:21	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1020**	mg/L	1	11/18/2025 12:42	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 0:47	R374783
Chloride	NELAP	5.00		**253**	mg/L	10	11/17/2025 0:47	R374783
Sulfate	NELAP	10.0		**169**	mg/L	10	11/17/2025 0:47	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**62.1**	µg/L	1	11/17/2025 16:09	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:09	247986
Boron	NELAP	20.0		**175**	µg/L	1	11/17/2025 16:09	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:09	247986
Calcium	NELAP	0.100		**164**	mg/L	1	11/17/2025 16:09	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:09	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:09	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:09	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:09	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 5:19	247986
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 5:19	247986
Lithium	*	3.0		**17.6**	µg/L	5	11/18/2025 15:34	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 5:19	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 15:34	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 14:41	247982
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.41**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.36**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power **Work Order:** 25110404

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Jan-26

Lab ID: 25110404-017 **Client Sample ID:** T-02

Matrix: GROUNDWATER **Collection Date:** 11/13/2025 10:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.18**	ft	1	11/13/2025 10:17	R374970
Depth to water	*	-5.00		**25.63**	ft	1	11/13/2025 10:17	R374970
Depth to water from measuring point	*	0		**28.03**	ft	1	11/13/2025 10:17	R374970
Elevation of groundwater surface	*	0		**521.59**	ft	1	11/13/2025 10:17	R374970
Measuring Point Elevation	*	0		**549.62**	ft	1	11/13/2025 10:17	R374970
Measuring Point Height Above Land Surface	*	0		**2.40**	ft	1	11/13/2025 10:17	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.1**	NTU	1	11/13/2025 10:17	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.5**	°F	1	11/13/2025 10:17	R374970
SW-846 9040B								
pH, Field	*	1.00		**4.89**		1	11/13/2025 10:17	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2310**	µmhos/cm @25C	1	11/13/2025 10:17	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1370**	mg/L	1	11/18/2025 12:42	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 1:00	R374783
Chloride	NELAP	5.00		**427**	mg/L	10	11/17/2025 1:00	R374783
Sulfate	NELAP	10.0		**90.0**	mg/L	10	11/17/2025 1:00	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**193**	µg/L	1	11/17/2025 16:09	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:09	247986
Boron	NELAP	20.0		**48.7**	µg/L	1	11/17/2025 16:09	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:09	247986
Calcium	NELAP	0.100		**209**	mg/L	1	11/17/2025 16:09	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:09	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:09	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:09	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:09	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 15:40	247986
Arsenic	NELAP	1.0		**7.3**	µg/L	5	11/18/2025 15:40	247986
Lithium	*	3.0		**31.0**	µg/L	5	11/18/2025 15:40	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 15:40	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 15:40	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 18:31	247984
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.56**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.11**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.45**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power **Work Order:** 25110404

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Jan-26

Lab ID: 25110404-018 **Client Sample ID:** T-04

Matrix: GROUNDWATER **Collection Date:** 11/13/2025 10:27

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**521.52**	ft	1	11/13/2025 10:27	R374970
Depth to water	*	-5.00		**17.70**	ft	1	11/13/2025 10:27	R374970
Depth to water from measuring point	*	0		**20.08**	ft	1	11/13/2025 10:27	R374970
Elevation of groundwater surface	*	0		**528.86**	ft	1	11/13/2025 10:27	R374970
Measuring Point Elevation	*	0		**548.94**	ft	1	11/13/2025 10:27	R374970
Measuring Point Height Above Land Surface	*	0		**2.38**	ft	1	11/13/2025 10:27	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.6**	NTU	1	11/13/2025 10:27	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.8**	°F	1	11/13/2025 10:27	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.43**		1	11/13/2025 10:27	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**545**	µmhos/cm @25C	1	11/13/2025 10:27	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**372**	mg/L	1	11/18/2025 13:01	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 1:13	R374783
Chloride	NELAP	5.00		**ND**	mg/L	10	11/17/2025 1:13	R374783
Sulfate	NELAP	10.0		**77.9**	mg/L	10	11/17/2025 1:13	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**38.2**	µg/L	1	11/17/2025 16:10	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:10	247986
Boron	NELAP	20.0		**42.6**	µg/L	1	11/17/2025 16:10	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:10	247986
Calcium	NELAP	0.100		**65.8**	mg/L	1	11/17/2025 16:10	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:10	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:10	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:10	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:10	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:31	247986
Arsenic	NELAP	1.0		**3.0**	µg/L	5	11/18/2025 16:31	247986
Lithium	*	3.0		**13.6**	µg/L	5	11/18/2025 16:31	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:31	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 16:31	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 18:33	247984
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.48**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.41**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-019
Client Sample ID: T-05
Matrix: GROUNDWATER
Collection Date: 11/13/2025 11:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**518.32**	ft	1	11/13/2025 11:01	R374970
Depth to water	*	-5.00		**11.48**	ft	1	11/13/2025 11:01	R374970
Depth to water from measuring point	*	0		**13.99**	ft	1	11/13/2025 11:01	R374970
Elevation of groundwater surface	*	0		**526.67**	ft	1	11/13/2025 11:01	R374970
Measuring Point Elevation	*	0		**540.66**	ft	1	11/13/2025 11:01	R374970
Measuring Point Height Above Land Surface	*	0		**2.51**	ft	1	11/13/2025 11:01	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.0**	NTU	1	11/13/2025 11:01	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.2**	°F	1	11/13/2025 11:01	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.64**		1	11/13/2025 11:01	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**726**	µmhos/cm @25C	1	11/13/2025 11:01	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**496**	mg/L	1	11/18/2025 13:01	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 1:25	R374783
Chloride	NELAP	5.00		**ND**	mg/L	10	11/17/2025 1:25	R374783
Sulfate	NELAP	10.0		**87.4**	mg/L	10	11/17/2025 1:25	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**76.2**	µg/L	1	11/17/2025 16:11	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:11	247986
Boron	NELAP	20.0		**106**	µg/L	1	11/17/2025 16:11	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:11	247986
Calcium	NELAP	0.100		**99.4**	mg/L	1	11/17/2025 16:11	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:11	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:11	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:11	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:11	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:36	247986
Arsenic	NELAP	1.0		**2.2**	µg/L	5	11/18/2025 16:36	247986
Lithium	*	3.0		**15.5**	µg/L	5	11/18/2025 16:36	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:36	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 16:36	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 18:36	247984
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.46**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.38**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-020
Client Sample ID: T-06
Matrix: GROUNDWATER
Collection Date: 11/13/2025 11:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**494.70**	ft	1	11/13/2025 11:32	R374970
Depth to water	*	-5.00		**9.62**	ft	1	11/13/2025 11:32	R374970
Depth to water from measuring point	*	0		**11.98**	ft	1	11/13/2025 11:32	R374970
Elevation of groundwater surface	*	0		**526.34**	ft	1	11/13/2025 11:32	R374970
Measuring Point Elevation	*	0		**538.32**	ft	1	11/13/2025 11:32	R374970
Measuring Point Height Above Land Surface	*	0		**2.36**	ft	1	11/13/2025 11:32	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**35**	NTU	1	11/13/2025 11:32	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.8**	°F	1	11/13/2025 11:32	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.76**		1	11/13/2025 11:32	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**940**	µmhos/cm @25C	1	11/13/2025 11:32	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**558**	mg/L	1	11/18/2025 13:01	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 1:38	R374783
Chloride	NELAP	5.00		**19.8**	mg/L	10	11/17/2025 1:38	R374783
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/17/2025 1:38	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**305**	µg/L	1	11/17/2025 16:12	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:12	247986
Boron	NELAP	20.0		**214**	µg/L	1	11/17/2025 16:12	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:12	247986
Calcium	NELAP	0.100		**97.7**	mg/L	1	11/17/2025 16:12	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:12	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:12	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:12	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:12	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:42	247986
Arsenic	NELAP	1.0		**14.5**	µg/L	5	11/18/2025 16:42	247986
Lithium	*	3.0		**10.5**	µg/L	5	11/18/2025 16:42	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:42	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 16:42	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 18:38	247984
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.51**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.13**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.38**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-021
Client Sample ID: AW-1
Matrix: GROUNDWATER
Collection Date: 11/13/2025 13:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	11/13/2025 13:47	R374970
Depth to water	*	-5.00		**16.51**	ft	1	11/13/2025 13:47	R374970
Depth to water from measuring point	*	0		**19.26**	ft	1	11/13/2025 13:47	R374970
Elevation of groundwater surface	*	0		**536.34**	ft	1	11/13/2025 13:47	R374970
Measuring Point Elevation	*	0		**555.60**	ft	1	11/13/2025 13:47	R374970
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	11/13/2025 13:47	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.8**	NTU	1	11/13/2025 13:47	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.7**	°F	1	11/13/2025 13:47	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.62**		1	11/13/2025 13:47	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1360**	µmhos/cm @25C	1	11/13/2025 13:47	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1120**	mg/L	1	11/18/2025 13:01	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 1:51	R374783
Chloride	NELAP	5.00		**38.2**	mg/L	10	11/17/2025 1:51	R374783
Sulfate	NELAP	10.0		**403**	mg/L	10	11/17/2025 1:51	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**218**	µg/L	1	11/17/2025 16:12	247986
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	11/17/2025 16:12	247986
Boron	NELAP	20.0		**9670**	µg/L	1	11/17/2025 16:12	247986
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/17/2025 16:12	247986
Calcium	NELAP	0.100		**209**	mg/L	1	11/17/2025 16:12	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:12	247986
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:12	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:12	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:12	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:47	247986
Arsenic	NELAP	1.0		**130**	µg/L	5	11/18/2025 16:47	247986
Lithium	*	3.0		**10.5**	µg/L	5	11/18/2025 16:47	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:47	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 16:47	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 18:40	247984
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.45**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**ND**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.090**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**ND**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.36**	+/-	1	01/02/2026 13:47	R377439

Client: City Water, Light & Power
Work Order: 25110404
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jan-26
Lab ID: 25110404-022
Client Sample ID: G120
Matrix: GROUNDWATER
Collection Date: 11/13/2025 10:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	11/13/2025 10:22	R374970
Depth to water	*	-5.00		**20.72**	ft	1	11/13/2025 10:22	R374970
Depth to water from measuring point	*	0		**20.72**	ft	1	11/13/2025 10:22	R374970
Elevation of groundwater surface	*	0		**532.38**	ft	1	11/13/2025 10:22	R374970
Measuring Point Elevation	*	0		**553.10**	ft	1	11/13/2025 10:22	R374970
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	11/13/2025 10:22	R374970
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**39**	NTU	1	11/13/2025 10:22	R374970
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.9**	°F	1	11/13/2025 10:22	R374970
SW-846 9040B								
pH, Field	*	1.00		**6.67**		1	11/13/2025 10:22	R374970
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1750**	µmhos/cm @25C	1	11/13/2025 10:22	R374970
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	25		**1500**	mg/L	1.25	11/18/2025 13:01	R374847
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/17/2025 2:03	R374783
Chloride	NELAP	5.00		**38.3**	mg/L	10	11/17/2025 2:03	R374783
Sulfate	NELAP	10.0		**578**	mg/L	10	11/17/2025 2:03	R374783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**1350**	µg/L	1	11/17/2025 16:17	247986
Beryllium	NELAP	0.5		**0.6**	µg/L	1	11/17/2025 16:17	247986
Boron	NELAP	20.0		**8230**	µg/L	1	11/17/2025 16:17	247986
Cadmium	NELAP	2.0		**2.0**	µg/L	1	11/17/2025 16:17	247986
Calcium	NELAP	0.100		**287**	mg/L	1	11/17/2025 16:17	247986
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	11/17/2025 16:17	247986
Cobalt	NELAP	5.0		**5.1**	µg/L	1	11/17/2025 16:17	247986
Lead	NELAP	7.5		**< 7.5**	µg/L	1	11/17/2025 16:17	247986
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	11/17/2025 16:17	247986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:53	247986
Arsenic	NELAP	1.0		**12.8**	µg/L	5	11/18/2025 16:53	247986
Lithium	*	3.0		**9.5**	µg/L	5	11/18/2025 16:53	247986
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	11/18/2025 16:53	247986
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	11/18/2025 16:53	247986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/19/2025 11:36	247984
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.0		**5.9**	pci/L	1	01/06/2026 8:26	R377436
Combined 226/228 Uncertainty	*	0		**0.88**	+/-	1	01/06/2026 8:26	R377436
Radium-226	*	1.0		**3.9**	pci/L	1	01/06/2026 8:26	R377436
Radium-226 Uncertainty	*	0		**0.26**	+/-	1	01/06/2026 8:26	R377436
Radium-228	*	1.0		**1.9**	pci/L	1	01/02/2026 13:47	R377439
Radium-228 Uncertainty	*	0		**0.62**	+/-	1	01/02/2026 13:47	R377439

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 25110404
Report Date: 13-Jan-26

Carrier: Justin Colp

Received By: KTM

Completed by: Emily Kossakoski
On: 12-Nov-25
Emily Kossakoski

Reviewed by: Shelly A Hennessy
On: 14-Nov-25
Shelly A. Hennessy

Pages to follow: Chain of custody 3 Extra pages included 62

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	17.5	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.						
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑			
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑			
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐			
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑			

Any No responses must be detailed below or on the COC.

Additonal cooler temperature 4.3C. EK 11/12/2025

pH strip #104524. - KTM/ekossakoski - 11/12/2025 4:54:38 PM

Additional nitric acid (107106) was needed for 1 of 3 RW3 1L and 2 of 3 AP10 1L upon arrival at the laboratory. - KTM/ekossakoski - 11/12/2025 4:58:51 PM

Samples were received on 11/13/25 at 16:30 on ice [temp9.1C, 9.9C, 4.1C, 4.7C, 0.7C - LTG#5]. pH# 104524. Additional nitric acid (107106) was needed for G120 upon arrival at the laboratory. - lhenson - 11/14/2025 7:35:27 AM

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CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 25110404

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 17.5, 6.3 °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY #9
LAB NOTES: PH 10+3.24. Added HNO3 (1:1) to RWS & AP13. KTM 11.12.25 1 of 3 2 of 3

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically
-001/-003 collection times corrected. SAH 11/24/25

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Brett Gillihan

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID		Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED														
					UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity								
25110404-001	RW-3	13:56	11-12-25 ~~1222~~	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
002	AP-1			Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
003	AP-2		11-12-25 1357	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
004	AP-3	13:54	11-12-25 ~~1317~~	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
005	AP-4			Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
006	AP-5			Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
007	AP-6			Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
008	AP-7			Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
009	AP-8			Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
010	AP-9			Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
011	AP10		11-12-25 1432	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	11-12-25 1610	Kyle Wooley	11-12-25 16:10

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 25110404

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

9.1, 9.9, 4.1

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 4.7, 0.7 °C 5

Preserved in: [X] LAB [X] FIELD HNO3 FOR LAB USE ONLY

LAB NOTES: PW 104524

added HNO3 (57106) to G120 LH 11/14/25

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No

Are these samples known to be hazardous? [ ] Yes [✓] No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:

*elevations, pH, conductivity, temperature

**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER

Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

Bret Gillihan

RESULTS REQUESTED

[✓] Standard [ ] 1-2 Day (100% Surcharge)

[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
25110404-001	RW-3		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
002	AP-1	11-13-25 1425	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
005	AP-4	11-13-25 1343	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
006	AP-5	11-13-25 1304	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
007	AP-6	11-13-25 1258	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
008	AP-7	11-13-25 1219	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
009	AP-8	11-13-25 1353	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
010	AP-9	11-13-25 958	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
011	AP10		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Allen Tarpe	11-13-25 1630		11/13/25 1630

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CHAIN OF CUSTODY

Pg 2 of 3 Workorder # 25110404

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD
FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Brett Gillihan

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED													
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity								
25110404-012	AP11	11-13-25 940	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
013	AP12	11-13-25 1104	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
014	AP13	11-13-25 1140	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
015	AP14	11-13-25 1314	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
016	T-01	11-13-25 1221	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
017	T-02	11-13-25 1017	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
018	T-04	11-13-25 1027	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
019	T-05	11-13-25 1101	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
020	T-06	11-13-25 1132	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
021	AW-1	11-13-25 1347	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								
022	G120	11-13-25 1022	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔								

Relinquished By	Date/Time	Received By	Date/Time
Allen Lampe	11-13-25 1630		11/13/25 1630

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Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	RW-3
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	25111404	**Date (s):**	11/12/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 60 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/25 1:25 PM

Static Water Level: 13.48 feet below TOC

Total Depth: 44.01 feet below TOC

Water Column: 30.53 feet

Purging Activities

Purged By: JC Purge Date: 11/12/2025

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 30.53 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 11.00 L

Physical appearance of purge water: Slightly cloudy Odor: Slight Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:09	0.0	234	purge start time						
13:14	1.2	↓	7.10	773.80	14.96	1.12	-151.50	55.45	
13:17	1.9		7.08	776.00	14.95	0.84	-157.90	234.71	
13:20	2.6		7.08	777.30	14.98	0.69	-158.00	281.63	
13:23	3.3		7.08	777.10	15.10	0.61	-157.00	324.88	
13:26	4.0		7.08	777.70	15.26	0.60	-155.80	259.88	
13:29	4.7		7.08	778.50	15.30	0.57	-155.60	266.15	
13:32	5.4		7.08	778.30	15.19	0.54	-154.80	129.46	
13:35	6.1		7.08	778.60	15.19	0.53	-154.60	283.82	
13:38	6.8		7.08	778.80	15.06	0.50	-154.20	217.75	
13:41	7.5		7.08	778.20	15.04	0.48	-153.70	235.75	
13:44	8.2		7.08	778.90	15.02	0.47	-153.20	94.02	
13:47	8.9		7.09	779.20	14.97	0.46	-152.40	164.96	
13:50	9.6		7.09	779.20	14.92	0.45	-152.30	218.71	
13:53	10.3		7.09	779.50	14.90	0.45	-152.00	136.71	
13:56	11.0		7.09	780.10	14.87	0.44	-151.20	134.35	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/12/2025 13:56

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.09 pH 780.10 Spec. Cond. 14.87 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 19.89 feet below TOC Drawdown: 6.41 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp **Date:** 11/12/2025

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: AP-1
Sample ID: 002
Date (s): 11/13/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 64 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 2:07 PM
Static Water Level: 11.89 feet below TOC
Total Depth: 31.08 feet below TOC
Water Column: 19.19 feet

Purging Activities

Purged By: DC Purge Date: 11/13/2025
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 19.19 ft. x 0.022 = 0.42 L x 3 Vol. = 1.26 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
14:07	0.0	222	purge start time						
14:13	1.3	↓	5.00	2,031.90	15.99	1.23	28.30	28.52	
14:16	2.0		4.94	2,086.10	16.08	1.08	11.30	30.88	
14:19	2.7		4.91	2,102.40	16.02	1.00	3.60	21.62	
14:22	3.3		4.88	2,129.40	16.01	0.97	-0.20	19.21	
14:25	4.0		4.86	2,144.80	15.87	0.94	-1.80	15.06	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2025 14:25
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 4.86 pH 2,144.80 Spec. Cond. 15.87 Temp
Field Filtered: No Filter Type:
Water Level: 12.41 feet below TOC Drawdown: 0.52 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/13/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-2
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	25111404	**Date (s):**	11/12/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 60 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/12/25 1:34 PM

Static Water Level: 9.62 feet below TOC

Total Depth: 21.33 feet below TOC

Water Column: 11.71 feet

Purging Activities

Purged By: DC Purge Date: 11/12/2025

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 11.71 ft. x 0.022 = 0.26 L x 3 Vol. = 0.78 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:34	0.0	225	purge start time						
13:42	1.8	↓	4.68	1,733.80	16.61	0.89	61.50	13.17	
13:45	2.5		4.63	1,736.10	16.61	0.79	62.70	11.55	
13:48	3.2		4.60	1,737.90	16.57	0.74	63.70	17.91	
13:51	3.8		4.58	1,739.40	16.54	0.69	64.70	16.91	
13:54	4.5		4.55	1,743.00	16.47	0.68	65.90	19.54	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/12/2025 13:54

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 4.55 pH 1,743.00 Spec. Cond. 16.47 Temp

Field Filtered: No Filter Type:

Water Level: 9.83 feet below TOC Drawdown: 0.21 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/12/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-3
Project Location:	Springfield, IL	**Sample ID:**	004
W.O. Number (s):	25111404	**Date (s):**	11/12/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 60 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/25 12:57 PM

Static Water Level: 9.88 feet below TOC

Total Depth: 20.80 feet below TOC

Water Column: 10.92 feet

Purging Activities

Purged By: DC Purge Date: 11/12/2025

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 10.92 ft. x 0.022 = 0.24 L x 3 Vol. = 0.72 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:57	0.0	225	purge start time						
13:02	1.1	↓	5.12	1,730.20	17.22	1.36	30.80	12.88	
13:05	1.8		5.04	1,732.80	17.19	1.23	23.90	11.58	
13:08	2.5		4.99	1,734.00	17.18	1.12	20.10	9.14	
13:11	3.2		4.96	1,738.00	17.16	1.05	17.00	7.83	
13:14	3.8		4.94	1,739.20	17.20	0.99	14.20	7.23	
13:17	4.5		4.93	1,739.90	17.14	0.96	12.40	6.06	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/12//25 13:17

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 4.93 pH 1,739.90 Spec. Cond. 17.14 Temp

Field Filtered: No Filter Type:

Water Level: 10.03 feet below TOC Drawdown: 0.15 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/12//25

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: AP-4
Sample ID: 005
Date (s): 11/13/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 63 °F — Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 1:21 PM
Static Water Level: 12.94 feet below TOC
Total Depth: 60.41 feet below TOC
Water Column: 47.47 feet

Purging Activities

Purged By: JC — Purge Date: 11/13/2025
Purge Method: Bladder Pump — Well Diameter: 2"
Purge Volume Calculation (L): 47.47 ft. x 0.022 = 1.04 L x 3 Vol. = 3.12 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Slightly cloudy — Odor: Slight — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:23	0.0	250	purge start time						
13:28	1.3	↓	6.75	905.60	17.85	1.61	-106.10	52.63	
13:31	2.0		6.75	909.50	17.85	1.06	-115.10	75.35	
13:34	2.8		6.75	911.50	17.83	0.80	-119.60	71.05	
13:37	3.5		6.76	912.60	17.75	0.67	-122.10	64.61	
13:40	4.3		6.76	913.00	17.76	0.58	-123.70	60.51	
13:43	5.0		6.76	913.50	17.78	0.54	-124.70	61.69	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/13/2025 13:43
Sample Method: Low Flow — Sample Equipment: Bladder Pump
Sample Parameters: 6.76 pH — 913.50 Spec. Cond. — 17.78 Temp
Field Filtered: No — Filter Type:
Water Level: 12.97 feet below TOC — Drawdown: 0.03 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp — **Date:** 11/13/2025

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: AP-5
Sample ID: 006
Date (s): 11/13/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 61 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 12:43 PM
Static Water Level: 20.62 feet below TOC
Total Depth: 31.27 feet below TOC
Water Column: 10.65 feet

Purging Activities

Purged By: JC Purge Date: 11/13/2025
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 10.65 ft. x 0.022 = 0.23 L x 3 Vol. = 0.69 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:45	0.0	263	purge start time						
12:52	1.8	↓	6.84	771.30	14.76	2.40	40.30	3.95	
12:55	2.6		6.83	770.90	14.81	1.93	44.10	3.33	
12:58	3.4		6.83	776.70	14.80	1.73	46.60	3.35	
13:01	4.2		6.83	782.70	14.79	1.66	48.90	2.89	
13:04	5.0		6.83	787.70	14.80	1.55	51.10	1.89	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/13/2025 13:04
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.83 pH 787.70 Spec. Cond. 14.80 Temp
Field Filtered: No Filter Type:
Water Level: 21.42 feet below TOC Drawdown: 0.80 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp **Date:** 11/13/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-6
Project Location:	Springfield, IL	**Sample ID:**	007
W.O. Number (s):	25111404	**Date (s):**	11/13/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 49 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 12:39 PM

Static Water Level: 11.33 feet below TOC

Total Depth: 39.62 feet below TOC

Water Column: 28.29 feet

Purging Activities

Purged By: AL Purge Date: 11/13/2025

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 28.29 ft. x 0.022 = 0.62 L x 3 Vol. = 1.86 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:39	0.0	158	purge start time						
12:49	1.6	↓	7.12	724.40	15.40	4.40	-6.80	8.81	
12:52	2.1		7.09	730.70	15.95	3.78	-8.00	4.16	
12:55	2.5		7.07	734.80	16.26	3.33	-9.10	3.34	
12:58	3.0		7.06	737.00	16.42	3.01	-10.00	2.58	

Sampling Activities

Sampled By: DN Sample Date/Time: 11/13/2025 12:58

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.06 pH 737.00 Spec. Cond. 16.42 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 12.67 feet below TOC Drawdown: 1.34 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: A Nieters **Date:** 11/13/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-7
Project Location:	Springfield, IL	**Sample ID:**	008
W.O. Number (s):	25111404	**Date (s):**	11/13/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 58 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/25 11:48 AM

Static Water Level: 13.92 feet below TOC

Total Depth: 42.52 feet below TOC

Water Column: 28.60 feet

Purging Activities

Purged By: JC Purge Date: 11/13/2025

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 28.6 ft. x 0.022 = 0.63 L x 3 Vol. = 1.89 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 7.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:50	0.0	241	purge start time						
11:55	1.2	↓	6.97	859.30	13.99	0.98	-129.30	22.99	
11:58	1.9		6.97	852.90	13.91	0.68	-122.90	51.63	
12:01	2.7		6.98	854.90	13.86	0.55	-120.00	79.92	
12:04	3.4		6.99	857.60	13.82	0.48	-119.70	86.97	
12:07	4.1		7.00	864.30	13.79	0.43	-119.20	74.99	
12:10	4.8		7.02	875.90	13.76	0.39	-118.10	60.19	
12:13	5.6		7.04	893.80	13.76	0.37	-112.00	54.55	
12:16	6.3		7.05	900.30	13.63	0.36	-108.20	53.70	
12:19	7.0		7.06	903.40	13.56	0.34	-105.90	59.02	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/13/2025 12:19

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.06 pH 903.40 Spec. Cond. 13.56 Temp

Field Filtered: No Filter Type:

Water Level: 23.18 feet below TOC Drawdown: 9.26 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp **Date:** 11/13/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-8
Project Location:	Springfield, IL	**Sample ID:**	009
W.O. Number (s):	25111404	**Date (s):**	11/13/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 64 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 1:34 PM

Static Water Level: 9.48 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 30.12 feet

Purging Activities

Purged By: DC Purge Date: 11/13/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 30.12 ft. x 0.022 = 0.66 L x 3 Vol. = 1.98 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:34	0.0	211	purge start time						
13:41	1.5	↓	6.22	1,172.60	16.22	1.40	12.50	8.46	
13:44	2.1		6.18	1,168.60	16.06	1.12	-6.30	9.36	
13:47	2.7		6.14	1,169.60	16.18	1.03	-13.80	11.59	
13:50	3.4		6.12	1,166.20	16.00	0.91	-17.00	15.11	
13:53	4.0		6.11	1,163.80	15.92	0.86	-18.90	13.07	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2025 13:53

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.11 pH 1,163.80 Spec. Cond. 15.92 Temp

Field Filtered: No Filter Type:

Water Level: 9.88 feet below TOC Drawdown: 0.40 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/13/2025

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: AP-9
Sample ID: 010
Date (s): 11/13/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 47 °F — Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 9:18 AM
Static Water Level: 14.19 feet below TOC
Total Depth: 39.60 feet below TOC
Water Column: 25.41 feet

Purging Activities

Purged By: JC — Purge Date: 11/13/2025
Purge Method: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 25.41 ft. x 0.022 = 0.56 L x 3 Vol. = 1.68 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:22	0.0	281	purge start time						
9:26	1.1	↓	6.50	1,103.90	14.43	1.68	-78.40	2.94	
9:29	2.0		6.53	1,069.10	14.53	1.23	-87.80	2.98	
9:32	2.8		6.55	1,066.80	14.40	1.03	-92.00	3.36	
9:35	3.7		6.57	1,065.20	14.48	0.92	-94.50	3.71	
9:38	4.5		6.57	1,065.60	14.42	0.83	-95.30	3.82	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/13/2025 9:38
Sample Method: Low Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.57 pH — 1,065.60 Spec. Cond. — 14.42 Temp
Field Filtered: No — Filter Type:
Water Level: 17.64 feet below TOC — Drawdown: 3.45 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp — **Date:** 11/13/2025

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: AP-10
Sample ID: 011
Date (s): 11/12/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/25 2:07 PM
Static Water Level: 7.73 feet below TOC
Total Depth: 38.07 feet below TOC
Water Column: 30.34 feet

Purging Activities

Purged By: DC Purge Date: 11/12/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 30.34 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
14:07	0.0	180	purge start time						
14:19	2.2	↓	5.50	1,474.80	15.20	1.61	-17.30	6.94	
14:22	2.7		5.40	1,474.70	15.23	1.38	-44.30	4.68	
14:25	3.2		5.39	1,475.50	15.23	1.25	-54.80	5.74	
14:28	3.8		5.38	1,474.50	15.10	1.17	-60.90	4.55	
14:31	4.3		5.37	1,468.10	14.87	0.95	-65.70	4.74	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/12/2025 14:32
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 5.37 pH 1,468.10 Spec. Cond. 14.87 Temp
Field Filtered: No Filter Type:
Water Level: 7.74 feet below TOC Drawdown: 0.01 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/12/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-11
Project Location:	Springfield, IL	**Sample ID:**	012
W.O. Number (s):	25111404	**Date (s):**	11/13/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 47 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 9:20 AM

Static Water Level: 15.58 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 7.37 feet

Purging Activities

Purged By: DC Purge Date: 11/13/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.37 ft. x 0.022 = 0.16 L x 3 Vol. = 0.48 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:20	0.0	200	purge start time						
9:28	1.6	↓	5.06	1,269.00	13.56	1.92	61.70	10.29	
9:31	2.2		4.95	1,265.30	13.53	1.63	57.50	9.15	
9:34	2.8		4.89	1,263.20	13.55	1.52	55.60	8.41	
9:37	3.4		4.83	1,264.60	13.66	1.32	54.70	8.29	
9:40	4.0		4.79	1,267.20	13.83	1.21	54.20	8.42	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2025 9:40

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 4.79 pH 1,267.20 Spec. Cond. 13.83 Temp

Field Filtered: No Filter Type:

Water Level: 15.62 feet below TOC Drawdown: 0.04 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/13/2025

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: AP-12
Sample ID: 013
Date (s): 11/13/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 54 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/25 10:44 AM
Static Water Level: 18.24 feet below TOC
Total Depth: 30.40 feet below TOC
Water Column: 12.16 feet

Purging Activities

Purged By: DC Purge Date: 11/13/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 12.16 ft. x 0.022 = 0.27 L x 3 Vol. = 0.81 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:44	0.0	200	purge start time						
10:52	1.6	↓	4.89	1,723.00	13.90	1.37	103.70	15.93	
10:55	2.2		4.82	1,725.80	13.95	1.17	89.50	16.32	
10:58	2.8		4.78	1,729.70	14.04	1.06	79.80	17.31	
11:01	3.4		4.75	1,732.10	14.04	0.99	73.00	17.89	
11:04	4.0		4.74	1,731.90	14.01	0.96	68.00	14.66	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2025 11:04
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 4.74 pH 1,731.90 Spec. Cond. 14.01 Temp
Field Filtered: No Filter Type:
Water Level: 18.59 feet below TOC Drawdown: 0.35 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/13/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-13
Project Location:	Springfield, IL	**Sample ID:**	014
W.O. Number (s):	25111404	**Date (s):**	11/13/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 56 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/25 11:21 AM

Static Water Level: 20.04 feet below TOC

Total Depth: 31.00 feet below TOC

Water Column: 10.96 feet

Purging Activities

Purged By: DC Purge Date: 11/13/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 10.96 ft. x 0.022 = 0.24 L x 3 Vol. = 0.72 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: Slight Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:21	0.0	211	purge start time						
11:28	1.5	↓	5.50	992.10	14.01	1.22	57.80	17.60	
11:31	2.1		5.37	985.70	13.97	1.01	48.90	17.12	
11:34	2.7		5.31	983.90	13.90	0.92	43.80	13.04	
11:37	3.4		5.26	981.80	13.88	0.88	41.20	11.54	
11:40	4.0		5.22	981.60	13.86	0.85	39.30	10.81	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2025 11:40

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 5.32 pH 1,778.80 Spec. Cond. 14.81 Temp

Field Filtered: No Filter Type:

Water Level: 20.23 feet below TOC Drawdown: 0.19 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/13/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-14
Project Location:	Springfield, IL	**Sample ID:**	015
W.O. Number (s):	25111404	**Date (s):**	11/13/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 12:58 PM

Static Water Level: 4.73 feet below TOC

Total Depth: 31.20 feet below TOC

Water Column: 26.47 feet

Purging Activities

Purged By: DC Purge Date: 11/13/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 26.47 ft. x 0.022 = 0.58 L x 3 Vol. = 1.74 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:58	0.0	250	purge start time						
13:02	1.0	↓	6.54	2,343.50	15.76	1.48	100.60	7.88	
13:05	1.8		6.32	2,404.80	15.50	1.14	96.50	10.68	
13:08	2.5		6.26	2,426.70	15.55	1.01	91.00	10.78	
13:11	3.3		6.24	2,426.70	15.45	0.92	86.10	6.63	
13:14	4.0		6.24	2,428.40	15.32	0.87	81.70	10.77	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2025 13:14

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.24 pH 2,428.40 Spec. Cond. 15.32 Temp

Field Filtered: No Filter Type:

Water Level: 5.72 feet below TOC Drawdown: 0.99 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/13/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-1
Project Location:	Springfield, IL	**Sample ID:**	016
W.O. Number (s):	25111404	**Date (s):**	11/13/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 59 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 11:59 AM

Static Water Level: 14.88 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 8.07 feet

Purging Activities

Purged By: DC Purge Date: 11/13/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 8.07 ft. x 0.022 = 0.18 L x 3 Vol. = 0.54 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:59	0.0	182	purge start time						
12:09	1.8	↓	4.55	1,799.20	15.01	1.33	90.40	22.53	
12:12	2.4		4.56	1,808.20	15.04	1.16	92.50	18.66	
12:15	2.9		4.56	1,806.40	14.67	1.09	94.50	19.13	
12:18	3.5		4.55	1,802.50	14.55	1.05	96.30	19.30	
12:21	4.0		4.54	1,805.40	14.61	1.01	98.00	18.23	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2025 12:21

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 4.54 pH 1,805.40 Spec. Cond. 14.61 Temp

Field Filtered: No Filter Type:

Water Level: 15.00 feet below TOC Drawdown: 0.12 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/13/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-2
Project Location:	Springfield, IL	**Sample ID:**	017
W.O. Number (s):	25111404	**Date (s):**	11/13/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 50 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 10:03 AM

Static Water Level: 28.03 feet below TOC

Total Depth: 34.44 feet below TOC

Water Column: 6.41 feet

Purging Activities

Purged By: DC Purge Date: 11/13/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 6.41 ft. x 0.022 = 0.14 L x 3 Vol. = 0.42 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:03	0.0	286	purge start time						
10:06	0.9	↓	5.04	2,305.20	12.48	1.82	-2.60	10.05	
10:09	1.7		4.88	2,310.90	12.45	1.45	-14.60	6.50	
10:12	2.6		4.88	2,311.30	12.46	1.28	-22.50	5.82	
10:15	3.4		4.88	2,310.50	12.50	1.17	-28.30	5.41	
10:18	4.3		4.89	2,309.10	12.51	1.12	-32.80	5.12	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2025 10:17

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 4.89 pH 2,309.10 Spec. Cond. 12.51 Temp

Field Filtered: No Filter Type:

Water Level: 28.36 feet below TOC Drawdown: 0.33 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223358

Form Completed By: Brett Gillihan **Date:** 11/13/2025

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-4
Project Location:	Springfield, IL	**Sample ID:**	018
W.O. Number (s):	25111404	**Date (s):**	11/13/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 51 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/25 9:54 AM

Static Water Level: 20.08 feet below TOC

Total Depth: 27.42 feet below TOC

Water Column: 7.34 feet

Purging Activities

Purged By: JC Purge Date: 11/13/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.34 ft. x 0.022 = 0.16 L x 3 Vol. = 0.48 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 7.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:56	0.0	226	purge start time						
10:03	1.6	↓	6.80	974.50	13.53	0.89	-52.80	76.61	
10:06	2.3		6.72	788.60	13.54	0.92	-40.60	77.88	
10:09	2.9		6.64	643.10	13.61	0.92	-16.00	55.17	
10:12	3.6		6.41	549.70	13.63	1.56	16.90	23.06	
10:15	4.3		6.35	534.90	13.70	1.53	25.70	12.29	
10:18	5.0		6.36	537.20	13.70	1.37	23.10	8.95	
10:21	5.6		6.39	544.00	13.71	1.17	16.10	5.85	
10:24	6.3		6.41	546.60	13.71	1.05	9.80	6.95	
10:27	7.0		6.43	544.70	13.79	0.95	4.80	3.56	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/13/2025 10:27

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.43 pH 544.70 Spec. Cond. 13.79 Temp

Field Filtered: No Filter Type:

Water Level: 21.34 feet below TOC Drawdown: 1.26 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp **Date:** 11/13/2025

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: T-5
Sample ID: 019
Date (s): 11/13/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 54 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 10:43 AM
Static Water Level: 13.99 feet below TOC
Total Depth: 22.34 feet below TOC
Water Column: 8.35 feet

Purging Activities

Purged By: JC Purge Date: 11/13/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 8.35 ft. x 0.022 = 0.18 L x 3 Vol. = 0.54 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:45	0.0	250	purge start time						
10:52	1.7	↓	6.61	693.90	16.13	1.64	26.50	5.52	
10:55	2.5		6.62	693.50	16.43	1.44	40.20	5.55	
10:58	3.3		6.63	707.50	16.55	1.46	47.70	6.87	
11:01	4.0		6.64	726.40	16.76	1.36	48.10	6.04	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/13/2025 11:01
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.64 pH 726.40 Spec. Cond. 16.76 Temp
Field Filtered: No Filter Type:
Water Level: 15.53 feet below TOC Drawdown: 1.54 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp **Date:** 11/13/2025

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: T-6
Sample ID: 020
Date (s): 11/13/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 56 °F — Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 11:17 AM

Static Water Level: 11.98 feet below TOC
Total Depth: 43.62 feet below TOC
Water Column: 31.64 feet

Purging Activities

Purged By: JC — Purge Date: 11/13/2025
Purge Method: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 31.64 ft. x 0.022 = 0.7 L x 3 Vol. = 2.1 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Slightly cloudy — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:19	0.0	269	purge start time						
11:23	1.1	↓	6.72	944.50	14.91	1.17	-133.30	15.17	
11:26	1.9		6.74	942.00	14.62	0.91	-136.30	26.27	
11:29	2.7		6.75	940.40	14.42	0.82	-136.60	31.41	
11:32	3.5		6.76	939.70	14.36	0.78	-136.70	35.26	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/13/2025 11:32
Sample Method: Low Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.76 pH — 939.70 Spec. Cond. — 14.36 Temp
Field Filtered: No — Filter Type:
Water Level: 12.03 feet below TOC — Drawdown: 0.05 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp — **Date:** 11/13/2025

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: AW-1
Sample ID: 021
Date (s): 11/13/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 65 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 1:29 PM
Static Water Level: 19.26 feet below TOC
Total Depth: 54.81 feet below TOC
Water Column: 35.55 feet

Purging Activities

Purged By: AL Purge Date: 11/13/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 35.55 ft. x 0.022 = 0.78 L x 3 Vol. = 2.34 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:29	0.0	333	purge start time						
13:38	3.0	↓	6.66	1,370.30	15.00	3.88	11.80	20.63	
13:41	4.0		6.64	1,369.10	14.91	3.46	12.00	17.55	
13:44	5.0		6.63	1,367.00	14.87	3.14	11.40	12.33	
13:47	6.0		6.62	1,363.50	14.83	2.89	10.60	9.76	

Sampling Activities

Sampled By: Dn Sample Date/Time: 11/13/2025 13:47
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.62 pH 1,363.50 Spec. Cond. 14.83 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 22.13 feet below TOC Drawdown: 2.87 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: A Nieters **Date:** 11/13/2025

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111404
Monitoring Point: G120
Sample ID: 022
Date (s): 11/13/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 49 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 10:04 AM
Static Water Level: 20.72 feet below TOC
Total Depth: 50.37 feet below TOC
Water Column: 29.65 feet

Purging Activities

Purged By: Al Purge Date: 11/13/2025
Purge Method: Submersible Pump Well Diameter: 2"
Purge Volume Calculation (L): 29.65 ft. x 0.022 = 0.65 L x 3 Vol. = 1.95 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Cloudy Odor: Moderate Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:04	0.0	333	purge start time						
10:13	3.0	↓	6.68	1,759.90	15.18	3.75	34.50	31.85	
10:16	4.0		6.67	1,753.40	15.21	3.29	30.90	42.73	
10:19	5.0		6.67	1,749.00	15.17	2.96	27.90	43.19	
10:22	6.0		6.67	1,748.40	15.51	2.70	25.10	38.98	

Sampling Activities

Sampled By: DN Sample Date/Time: 11/13/2025 10:22
Sample Method: Low Flow Sample Equipment: Submersible Pump
Sample Parameters: 6.67 pH 1,748.40 Spec. Cond. 15.51 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 20.81 feet below TOC Drawdown: 0.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: A Nieters Date: 11/13/2025

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 25110404
Technician(s): DC, JC, BG, AL, DN

Field Calibration Log(s)
CWLP- 4Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 217941 Technician(s): justin colp Date: 11/12/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.00	11/12/25 11:40
7.0 Buffer	WC251017B	7.00	11/12/25 11:37
10.0 Buffer	WC251017C	10.00	11/12/25 11:44
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1412	11/12/25 11:50

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.85	11/12/25 11:52
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	11/12/25 11:55	15.3	7.01	1,409	0.83		
CCV-1-JC	CCV	11/12/25 14:17	19.1	6.98	1,377	0.96		

Comments:

Field Meter ID: Pine 217941 Technician(s): justin colp Date: 11/13/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.00	11/13/25 8:37
7.0 Buffer	WC251017B	7.00	11/13/25 8:33
10.0 Buffer	WC251017C	10.00	11/13/25 8:40
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1412	11/13/25 8:46

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.93	11/13/25 8:47
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	11/13/25 8:52	12	6.97	1,409	0.87		
CCV-2-JC	CCV	11/13/25 14:47	18.6	7.02	1,364	1.61		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 25110404
Technician(s): DC, JC, BG, AL, DN

Field Calibration Log(s)
CWLP- 4Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45280 Technician(s): D. Nieters Date: 11/12/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.00	11/12/25 10:56
7.0 Buffer	WC251017B	7.00	11/12/25 10:50
10.0 Buffer	WC251017C	10.00	11/12/25 11:05
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1418	11/12/25 11:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.64	11/12/25 11:16
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-DN	LCS	11/12/25 11:17	18.9	7.05	1,418	0.64		
CCV-1-DN	CCV	11/12/25 14:00	18.9	6.96	1,358	0.73		

Comments:

Field Meter ID: Pine 45280 Technician(s): D. Nieters Date: 11/13/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.00	11/13/25 7:50
7.0 Buffer	WC251017B	7.00	11/13/25 7:46
10.0 Buffer	WC251017C	10.00	11/13/25 8:01
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1390	11/13/25 8:11

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.82	11/13/25 8:24
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-DN	LCS	11/13/25 8:29	10.8	7.02	1,412	1.01		
CCV-2-DN	CCV	11/13/25 14:15	19.6	6.98	1,356	0.89		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 25110404
Technician(s): DC, JC, BG, AL, DN

Field Calibration Log(s)
CWLP- 4Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223358 Technician(s): Brett Gillihan Date: 11/12/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.01	11/12/25 10:50
7.0 Buffer	WC251017B	6.98	11/12/25 10:47
10.0 Buffer	WC251017C	10.00	11/12/25 10:56
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1425	11/12/25 11:03

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.35	11/12/25 11:04
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	11/12/25 11:08	13.3	7.01	1,443	0.39		
CCV-1-BG	CCV	11/12/25 14:34	13.8	7.03	1,448	0.46		

Comments:

Field Meter ID: Pine 223358 Technician(s): Brett Gillihan Date: 11/13/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.02	11/13/25 8:39
7.0 Buffer	WC251017B	7.00	11/13/25 8:35
10.0 Buffer	WC251017C	10.01	11/13/25 8:46
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1427	11/13/25 8:50

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.48	11/13/25 8:53
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	11/13/25 8:58	14.3	7.03	1,439	0.52		
CCV-2-BG	CCV	11/13/25 14:46	16.3	7.02	1,451	0.53		

Comments:

Alliance Technical Group - Akron
3310 Win St.
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TEL: (330) 253-8211
Website: http://www.settek.com

January 08, 2026

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25110404

Dear Shelly Hennessy:

Order No.: 25111579

Alliance Technical Group - Akron received 22 sample(s) on 11/19/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **25111579**
Date: **1/8/2026**

CLIENT: TEKLAB Inc,
Project: 25110404

WorkOrder Narrative:
25111579: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence Sample Notes:
25111579-009A Radium-228_NPW(904.0): Parent sample and duplicate exhibit a high RPD, most likely caused by sample matrix.
25111579-010A Radium-226_NPW(903.0): Parent sample and dup exhibit high RPD, both results are below the PQL.

Analytical Sequence QC Notes:
LCS/LCSD-90886 Radium-228_DW(904.0): LCS and LCSD exhibited high RPD. Both are within passing recovery criteria.

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Qualifiers and Acronyms

WO#: **25111579**
Date: **1/8/2026**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **25111579**

08-Jan-26

CLIENT: TEKLAB Inc,
Project: 25110404

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25111579-001	25110404-001C		11/12/2025 12:22:01 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-002	25110404-002C		11/13/2025 2:25:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-003	25110404-003C		11/12/2025 1:57:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-004	25110404-004C		11/12/2025 1:17:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-005	25110404-005C		11/13/2025 1:43:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-006	25110404-006C		11/13/2025 1:04:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-007	25110404-007C		11/13/2025 12:58:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-008	25110404-008C		11/13/2025 12:19:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-009	25110404-009C		11/13/2025 1:53:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-010	25110404-010C		11/13/2025 9:38:00 AM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-011	25110404-011C		11/12/2025 2:32:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-012	25110404-012C		11/13/2025 9:40:00 AM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-013	25110404-013C		11/13/2025 11:04:00 AM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-014	25110404-014C		11/13/2025 11:40:00 AM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-015	25110404-015C		11/13/2025 1:14:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-016	25110404-016C		11/13/2025 12:21:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-017	25110404-017C		11/13/2025 10:17:00 AM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-018	25110404-018C		11/13/2025 10:27:00 AM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-019	25110404-019C		11/13/2025 11:01:00 AM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-020	25110404-020C		11/13/2025 11:32:00 AM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-021	25110404-021C		11/13/2025 1:47:00 PM	11/19/2025 11:20:00 AM	Non-Potable Water
25111579-022	25110404-022C		11/13/2025 10:22:00 AM	11/19/2025 11:20:00 AM	Non-Potable Water

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DATES REPORT

WO#: **25111579**

08-Jan-26

Client: TEKLAB Inc,
Project: 25110404

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25111579-001A	25110404-001C	11/12/2025 12:22:01 PM	Non-Potable Water	Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM
				Radium-228 (EPA 9320)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-002A	25110404-002C	11/13/2025 2:25:00 PM		Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM
				Radium-228 (EPA 904.0)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-003A	25110404-003C	11/12/2025 1:57:00 PM		Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM
				Radium-228 (EPA 904.0)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-004A	25110404-004C	11/12/2025 1:17:00 PM		Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM
				Radium-228 (EPA 904.0)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-005A	25110404-005C	11/13/2025 1:43:00 PM		Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM
				Radium-228 (EPA 904.0)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-006A	25110404-006C	11/13/2025 1:04:00 PM		Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM
				Radium-228 (EPA 904.0)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-007A	25110404-007C	11/13/2025 12:58:00 PM		Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM
				Radium-228 (EPA 904.0)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-008A	25110404-008C	11/13/2025 12:19:00 PM		Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM

Original

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DATES REPORT

WO#: **25111579**

08-Jan-26

Client: TEKLAB Inc,
Project: 25110404

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25111579-008A	25110404-008C	11/13/2025 12:19:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-009A	25110404-009C	11/13/2025 1:53:00 PM		Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM
				Radium-228 (EPA 904.0)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-010A	25110404-010C	11/13/2025 9:38:00 AM		Combined Radium (EPA903+904)		12/19/2025 11:10:00 AM	12/19/2025 11:15:12 AM
				Radium-226 (EPA 903.0)		12/19/2025 11:10:00 AM	12/19/2025 11:15:36 AM
				Radium-228 (EPA 904.0)		12/19/2025 11:10:00 AM	1/2/2026 11:20:00 AM
25111579-011A	25110404-011C	11/12/2025 2:32:00 PM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-012A	25110404-012C	11/13/2025 9:40:00 AM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-013A	25110404-013C	11/13/2025 11:04:00 AM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-014A	25110404-014C	11/13/2025 11:40:00 AM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-015A	25110404-015C	11/13/2025 1:14:00 PM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-016A	25110404-016C	11/13/2025 12:21:00 PM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM

Original

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DATES REPORT

WO#: **25111579**

08-Jan-26

Client: TEKLAB Inc,
Project: 25110404

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25111579-016A	25110404-016C	11/13/2025 12:21:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-017A	25110404-017C	11/13/2025 10:17:00 AM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-018A	25110404-018C	11/13/2025 10:27:00 AM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-019A	25110404-019C	11/13/2025 11:01:00 AM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-020A	25110404-020C	11/13/2025 11:32:00 AM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-021A	25110404-021C	11/13/2025 1:47:00 PM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM
25111579-022A	25110404-022C	11/13/2025 10:22:00 AM		Combined Radium (EPA903+904)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-226 (EPA 903.0)		12/22/2025 8:14:08 AM	1/6/2026 8:26:00 AM
				Radium-228 (EPA 904.0)		12/22/2025 8:14:08 AM	1/2/2026 1:47:00 PM

Original

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Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2025 12:22:01 PM
Project: 25110404
Lab ID: 25111579-001
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-001C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.380	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	12/19/2025 11:15:36 A
Yield	0.940					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 9320)					**SW9320**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.300	1	1/2/2026 11:20:00 AM
Yield	1.00					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 2:25:00 PM
Project: 25110404
Lab ID: 25111579-002
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-002C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.440	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.100	1	12/19/2025 11:15:36 A
Yield	0.780					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.340	1	1/2/2026 11:20:00 AM
Yield	0.830					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2025 1:57:00 PM
Project: 25110404
Lab ID: 25111579-003
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-003C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.380	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	12/19/2025 11:15:36 A
Yield	0.870					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.300	1	1/2/2026 11:20:00 AM
Yield	0.930					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2025 1:17:00 PM
Project: 25110404
Lab ID: 25111579-004
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-004C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.400	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/19/2025 11:15:36 A
Yield	0.950					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.330	1	1/2/2026 11:20:00 AM
Yield	0.960					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 1:43:00 PM
Project: 25110404
Lab ID: 25111579-005
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-005C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.470	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.130	1	12/19/2025 11:15:36 A
Yield	0.990					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.340	1	1/2/2026 11:20:00 AM
Yield	1.00					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 1:04:00 PM
Project: 25110404
Lab ID: 25111579-006
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-006C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.370	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0400	1	12/19/2025 11:15:36 A
Yield	0.930					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.330	1	1/2/2026 11:20:00 AM
Yield	1.00					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 12:58:00 PM
Project: 25110404
Lab ID: 25111579-007
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-007C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.410	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/19/2025 11:15:36 A
Yield	0.970					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.340	1	1/2/2026 11:20:00 AM
Yield	0.960					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

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WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 12:19:00 PM
Project: 25110404
Lab ID: 25111579-008
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-008C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.410	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/19/2025 11:15:36 A
Yield	0.940					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.340	1	1/2/2026 11:20:00 AM
Yield	1.00					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 1:53:00 PM
Project: 25110404
Lab ID: 25111579-009
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-009C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.590	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	1.37	1.00		pCi/L	± 0.160	1	12/19/2025 11:15:36 A
Yield	0.990					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00	QDR	pCi/L	± 0.430	1	1/2/2026 11:20:00 AM
Yield	1.00					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 9:38:00 AM
Project: 25110404
Lab ID: 25111579-010
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-010C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.420	1	12/19/2025 11:15:12 A
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00	QDR	pCi/L	± 0.110	1	12/19/2025 11:15:36 A
Yield	0.960					1	12/19/2025 11:15:36 A
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.310	1	1/2/2026 11:20:00 AM
Yield	1.00					1	1/2/2026 11:20:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2025 2:32:00 PM
Project: 25110404
Lab ID: 25111579-011
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-011C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.550	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	1.01	1.00		pCi/L	± 0.140	1	1/6/2026 8:26:00 AM
Yield	1.00					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.410	1	1/2/2026 1:47:00 PM
Yield	1.00					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 9:40:00 AM
Project: 25110404
Lab ID: 25111579-012
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-012C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.340	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	1/6/2026 8:26:00 AM
Yield	1.00					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.290	1	1/2/2026 1:47:00 PM
Yield	1.00					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

Analytical Report

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WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 11:04:00 AM
Project: 25110404
Lab ID: 25111579-013
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-013C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.380	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	1/6/2026 8:26:00 AM
Yield	0.980					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.330	1	1/2/2026 1:47:00 PM
Yield	1.00					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

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WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 11:40:00 AM
Project: 25110404
Lab ID: 25111579-014
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-014C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.400	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.100	1	1/6/2026 8:26:00 AM
Yield	0.930					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.300	1	1/2/2026 1:47:00 PM
Yield	1.00					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

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WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 1:14:00 PM
Project: 25110404
Lab ID: 25111579-015
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-015C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.630	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	1/6/2026 8:26:00 AM
Yield	0.990					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	1.46	1.00		pCi/L	± 0.540	1	1/2/2026 1:47:00 PM
Yield	1.00					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

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WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 12:21:00 PM
Project: 25110404
Lab ID: 25111579-016
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-016C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.410	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	1/6/2026 8:26:00 AM
Yield	1.00					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.360	1	1/2/2026 1:47:00 PM
Yield	1.00					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 10:17:00 AM
Project: 25110404
Lab ID: 25111579-017
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-017C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.560	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.110	1	1/6/2026 8:26:00 AM
Yield	0.950					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.450	1	1/2/2026 1:47:00 PM
Yield	0.990					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 10:27:00 AM
Project: 25110404
Lab ID: 25111579-018
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-018C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.480	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	1/6/2026 8:26:00 AM
Yield	1.00					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.410	1	1/2/2026 1:47:00 PM
Yield	1.00					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 11:01:00 AM
Project: 25110404
Lab ID: 25111579-019
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-019C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.460	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	1/6/2026 8:26:00 AM
Yield	1.00					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.380	1	1/2/2026 1:47:00 PM
Yield	0.990					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 11:32:00 AM
Project: 25110404
Lab ID: 25111579-020
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-020C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.510	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.130	1	1/6/2026 8:26:00 AM
Yield	0.890					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.380	1	1/2/2026 1:47:00 PM
Yield	0.990					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 1:47:00 PM
Project: 25110404
Lab ID: 25111579-021
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-021C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.450	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	1/6/2026 8:26:00 AM
Yield	1.00					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.360	1	1/2/2026 1:47:00 PM
Yield	1.00					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **25111579**

Date Reported: **1/8/2026**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2025 10:22:00 AM
Project: 25110404
Lab ID: 25111579-022
Matrix: NON-POTABLE WATER
Client Sample ID: 25110404-022C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	5.88	2.00		pCi/L	± 0.880	1	1/6/2026 8:26:00 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	3.94	1.00		pCi/L	± 0.260	1	1/6/2026 8:26:00 AM
Yield	1.00					1	1/6/2026 8:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	1.94	1.00		pCi/L	± 0.620	1	1/2/2026 1:47:00 PM
Yield	0.970					1	1/2/2026 1:47:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25111579**

08-Jan-26

Client: TEKLAB Inc,
Project: 25110404 **BatchID:** **90856**

Sample ID: **25111579-009ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **12/19/2025** RunNo: **224241**
Client ID: **25110404-009C** Batch ID: **90856** TestNo: **E904.0** **E903-904** Analysis Date: **1/2/2026** SeqNo: **5977079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.25	1.00		0	0			0.8400	39.2	30	R
Yield	1.00			0	0			1.000	0		

Sample ID: **25111579-010ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **12/19/2025** RunNo: **224241**
Client ID: **25110404-010C** Batch ID: **90856** TestNo: **E904.0** **E903-904** Analysis Date: **1/2/2026** SeqNo: **5977081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	
Yield	0.930			0	0			1.000	7.25		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25111579**

08-Jan-26

Client: TEKLAB Inc,
Project: 25110404 **BatchID:** **90856**

Sample ID: **MB-90856** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **12/19/2025** RunNo: **224241**
Client ID: **BatchQC** Batch ID: **90856** TestNo: **SW9320** **E903-904** Analysis Date: **1/2/2026** SeqNo: **5977054**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.970			0	0						

Sample ID: **LCS-90856** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **12/19/2025** RunNo: **224241**
Client ID: **BatchQC** Batch ID: **90856** TestNo: **SW9320** **E903-904** Analysis Date: **1/2/2026** SeqNo: **5977055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.74	1.00	5.000	0	74.8	50	130				
Yield	0.920			0	0						

Sample ID: **LCSD-90856** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **12/19/2025** RunNo: **224241**
Client ID: **BatchQC** Batch ID: **90856** TestNo: **SW9320** **E903-904** Analysis Date: **1/2/2026** SeqNo: **5977056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.41	1.00	5.000	0	68.2	50	130	3.740	9.23	20	
Yield	0.960			0	0			0.9200	4.26		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25111579**

08-Jan-26

Client: TEKLAB Inc,
Project: 25110404 **BatchID:** **90856**

Sample ID: **MB-90856**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/19/2025**	RunNo: **224246**
Client ID: **BatchQC**	Batch ID: **90856**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/19/2025**	SeqNo: **5977140**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	0.940										

Sample ID: **LCS-90856**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/19/2025**	RunNo: **224246**
Client ID: **BatchQC**	Batch ID: **90856**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/19/2025**	SeqNo: **5977141**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.99	1.00	5.000	0	120	70	130				

Sample ID: **LCSD-90856**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/19/2025**	RunNo: **224246**
Client ID: **BatchQC**	Batch ID: **90856**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/19/2025**	SeqNo: **5977142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.17	1.00	5.000	0	123	70	130	5.990	2.96	20	

Sample ID: **25111579-009ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/19/2025**	RunNo: **224246**
Client ID: **25110404-009C**	Batch ID: **90856**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/19/2025**	SeqNo: **5977164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

Alliance Technical Group - Akron
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TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25111579**

08-Jan-26

Client: TEKLAB Inc,
Project: 25110404 **BatchID:** **90856**

Sample ID: **25111579-009ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **12/19/2025** RunNo: **224246**
Client ID: **25110404-009C** Batch ID: **90856** TestNo: **E903.0** **E903-904** Analysis Date: **12/19/2025** SeqNo: **5977164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.48	1.00						1.370	7.72	30	
Yield	0.900							0.9900	9.52	0	

Sample ID: **25111579-010ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **12/19/2025** RunNo: **224246**
Client ID: **25110404-010C** Batch ID: **90856** TestNo: **E903.0** **E903-904** Analysis Date: **12/19/2025** SeqNo: **5977166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	R
Yield	0.850							0.9600	12.2	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **25111579**

08-Jan-26

Client: TEKLAB Inc,
Project: 25110404 **BatchID:** **90886**

Sample ID: **MB-90886**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/22/2025**	RunNo: **224319**
Client ID: **BatchQC**	Batch ID: **90886**	TestNo: **E903.0**	**E903-904**	Analysis Date: **1/6/2026**	SeqNo: **5979841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-90886**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/22/2025**	RunNo: **224319**
Client ID: **BatchQC**	Batch ID: **90886**	TestNo: **E903.0**	**E903-904**	Analysis Date: **1/6/2026**	SeqNo: **5979842**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.13	1.00	5.000	0	103	70	130				

Sample ID: **LCSD-90886**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/22/2025**	RunNo: **224319**
Client ID: **BatchQC**	Batch ID: **90886**	TestNo: **E903.0**	**E903-904**	Analysis Date: **1/6/2026**	SeqNo: **5979843**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.24	1.00	5.000	0	105	70	130	5.130	2.12	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

TEKLAB, INC. Chain of Custody

25111579

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab Employee | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Analyze for Radium 226/228 per your normal method/s.
Method changes require Teklab authorization. Samples collected from an IL site.
Batch QC is required for all analyses requested.

Project# 25110404

Contact: Shelly Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 39856 | Phone: 618-344-1004 ex 36 | State of Sample Origin = IL

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228	Radium 226	Radium 228	pH			cpm					
	25110404-001C	11/12/25 12:22	HNO3	Groundwater	✔	✔	✔	3	2	2	21	30	22			
	25110404-002C	11/13/25 14:25	HNO3	Groundwater	✔	✔	✔	2	3	2	22	20	26			
	25110404-003C	11/12/25 13:57	HNO3	Groundwater	✔	✔	✔	3	3	3	22	32	22			
	25110404-004C	11/12/25 13:17	HNO3	Groundwater	✔	✔	✔	2	2	2	26	24	26			
	25110404-005C	11/13/25 13:43	HNO3	Groundwater	✔	✔	✔	3	3	3	24	26	28			
	25110404-006C	11/13/25 13:04	HNO3	Groundwater	✔	✔	✔	2	2	3	30	36	24			
	25110404-007C	11/13/25 12:58	HNO3	Groundwater	✔	✔	✔	2	2	3	32	30	30			
	25110404-008C	11/13/25 12:19	HNO3	Groundwater	✔	✔	✔	3	2	3	30	30	30			
	25110404-009C	11/13/25 13:53	HNO3	Groundwater	✔	✔	✔	3	3	3	22	24	28			
	25110404-010C	11/13/25 9:38	HNO3	Groundwater	✔	✔	✔	3	3	3	16	22	30			
	25110404-011C	11/12/25 14:32	HNO3	Groundwater	✔	✔	✔	2	3	1	26	18	26			

*Relinquished By	Date/Time	Received By	Date/Time
	11/19/25 1700		~~11/20/25~~
		Lucux 1120	11/19/25
		18.8+0.2=19.0	

C.S. 11/17/25 intact

19.0°C = 18.8 + 0.2

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights. Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA 3/2/2016

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab Employee | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Analyze for Radium 226/228 per your normal method/s.
Method changes require Teklab authorization. Samples collected from an IL site.
Batch QC is required for all analyses requested.

Project# 25110404

Contact: Shelly Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 39856
Phone: 618-344-1004 ex 36 State of Sample Origin = IL

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228	Radium 226	Radium 228	PH			UPW					
	25110404-012C	11/13/25 9:40	HNO3	Groundwater	✔	✔	✔	3	3	3	22	30	28			
	25110404-013C	11/13/25 11:04	HNO3	Groundwater	✔	✔	✔	2	3	3	24	28	24			
	25110404-014C	11/13/25 11:40	HNO3	Groundwater	✔	✔	✔	2	3	3	26	34	26			
	25110404-015C	11/13/25 13:14	HNO3	Groundwater	✔	✔	✔	2	3	3	28	22	18			
	25110404-016C	11/13/25 12:21	HNO3	Groundwater	✔	✔	✔	2	2	3	36	26	38			
	25110404-017C	11/13/25 10:17	HNO3	Groundwater	✔	✔	✔	2	3	3	22	28	32			
	25110404-018C	11/13/25 10:27	HNO3	Groundwater	✔	✔	✔	1	1	1	22	30	46			
	25110404-019C	11/13/25 11:01	HNO3	Groundwater	✔	✔	✔	2	3	2	24	30	28			
	25110404-020C	11/13/25 11:32	HNO3	Groundwater	✔	✔	✔	3	3	3	28	32	34			
	25110404-021C	11/13/25 13:47	HNO3	Groundwater	✔	✔	✔	3	3	3	22	14	26			
	25110404-022C	11/13/25 10:22	HNO3	Groundwater	✔	✔	✔	2	2	3	26	20	34			

*Relinquished By	Date/Time	Received By	Date/Time
	11/17/25 1700	Paige Aguirre	~~11/20/25~~ PA 12:00
			11/19/25

CS intact
11/17/25
19.0 C =
18.8 +0.2

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25111579** RcptNo: **1**

Logged by:	**Spencer M. Hartwell**	**11/19/2025 11:20:00 AM**	Spencer M. Hartwell
Completed By:	**Spencer M. Hartwell**	**11/20/2025 3:53:59 PM**	Spencer M. Hartwell
Reviewed By:	**Jennifer Woolf**	**11/25/2025 9:29:17 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: 11/17/2025 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	19	Good	Yes		11/17/2025	

March 27, 2026

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100467
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 26020092

Dear Eric Staley:

TEKLAB, INC received 22 samples on 2/12/2026 1:26:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26020092
Report Date: 27-Mar-26

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	31
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 26020092

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Mar-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 26020092

Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26020092
Report Date: 27-Mar-26

Cooler Receipt Temp: 5.4 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Alliance Technical Group. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville

Address 120 United Drive
Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 120 United Drive
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100467	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2026	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 02/12/2026 10:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	02/12/2026 10:28	R379198
Depth to water	*	-5.00		**10.15**	ft	1	02/12/2026 10:28	R379198
Depth to water from measuring point	*	0		**12.85**	ft	1	02/12/2026 10:28	R379198
Elevation of groundwater surface	*	0		**526.65**	ft	1	02/12/2026 10:28	R379198
Measuring Point Elevation	*	0		**539.50**	ft	1	02/12/2026 10:28	R379198
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	02/12/2026 10:28	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.4**	NTU	1	02/12/2026 10:28	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.7**	°F	1	02/12/2026 10:28	R379198
SW-846 9040B								
pH, Field	*	1.00		**7.18**		1	02/12/2026 10:28	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**793**	µmhos/cm @25C	1	02/12/2026 10:28	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**404**	mg/L	1	02/18/2026 16:42	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/15/2026 19:36	R379074
Chloride	NELAP	5.00		**27.5**	mg/L	10	02/15/2026 19:36	R379074
Sulfate	NELAP	10.0		**ND**	mg/L	10	02/15/2026 19:36	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**138**	µg/L	1	02/14/2026 16:30	251804
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 16:30	251804
Boron	NELAP	20.0		**148**	µg/L	1	02/14/2026 16:30	251804
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 16:30	251804
Calcium	NELAP	0.100	S	**66.9**	mg/L	1	02/14/2026 16:30	251804
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:30	251804
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:30	251804
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 16:30	251804
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 16:30	251804
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 5:12	251804
Arsenic	NELAP	1.0		**65.4**	µg/L	5	02/21/2026 5:12	251804
Lithium	*	3.0		**5.6**	µg/L	5	02/24/2026 10:40	251804
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 5:12	251804
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 5:12	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/17/2026 12:51	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/24/2026 10:44	R381190
Combined 226/228 Uncertainty	*	0		**0.500**	+/-	1	02/24/2026 10:44	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/24/2026 10:44	R381190
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	02/24/2026 10:44	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/23/2026 12:19	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 02/12/2026 10:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.420**	+/-	1	02/23/2026 12:19	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 02/12/2026 10:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	02/12/2026 10:30	R379198
Depth to water	*	-5.00		**8.78**	ft	1	02/12/2026 10:30	R379198
Depth to water from measuring point	*	0		**11.05**	ft	1	02/12/2026 10:30	R379198
Elevation of groundwater surface	*	0		**524.32**	ft	1	02/12/2026 10:30	R379198
Measuring Point Elevation	*	0		**535.37**	ft	1	02/12/2026 10:30	R379198
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	02/12/2026 10:30	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.2**	NTU	1	02/12/2026 10:30	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.4**	°F	1	02/12/2026 10:30	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.67**		1	02/12/2026 10:30	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1750**	µmhos/cm @25C	1	02/12/2026 10:30	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1630**	mg/L	1	02/18/2026 16:42	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/15/2026 19:48	R379074
Chloride	NELAP	5.00		**51.8**	mg/L	10	02/15/2026 19:48	R379074
Sulfate	NELAP	10.0		**897**	mg/L	10	02/15/2026 19:48	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**262**	µg/L	1	02/14/2026 16:35	251804
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 16:35	251804
Boron	NELAP	200		**24100**	µg/L	10	02/18/2026 15:41	251804
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 16:35	251804
Calcium	NELAP	0.100		**255**	mg/L	1	02/14/2026 16:35	251804
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:35	251804
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:35	251804
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 16:35	251804
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 16:35	251804
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 5:53	251804
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	02/23/2026 20:35	251804
Lithium	*	3.0		**10.6**	µg/L	5	02/23/2026 20:35	251804
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/23/2026 20:35	251804
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 5:53	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/17/2026 12:53	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/24/2026 10:44	R381190
Combined 226/228 Uncertainty	*	0		**0.620**	+/-	1	02/24/2026 10:44	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/24/2026 10:44	R381190
Radium-226 Uncertainty	*	0		**0.140**	+/-	1	02/24/2026 10:44	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/23/2026 12:19	R381189
Radium-228 Uncertainty	*	0		**0.480**	+/-	1	02/23/2026 12:19	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 02/12/2026 11:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	02/12/2026 11:06	R379198
Depth to water	*	-5.00		**6.43**	ft	1	02/12/2026 11:06	R379198
Depth to water from measuring point	*	0		**8.93**	ft	1	02/12/2026 11:06	R379198
Elevation of groundwater surface	*	0		**527.17**	ft	1	02/12/2026 11:06	R379198
Measuring Point Elevation	*	0		**536.10**	ft	1	02/12/2026 11:06	R379198
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	02/12/2026 11:06	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.6**	NTU	1	02/12/2026 11:06	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.1**	°F	1	02/12/2026 11:06	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.59**		1	02/12/2026 11:06	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1300**	µmhos/cm @25C	1	02/12/2026 11:06	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1080**	mg/L	1	02/18/2026 16:51	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/15/2026 20:01	R379074
Chloride	NELAP	5.00		**37.6**	mg/L	10	02/15/2026 20:01	R379074
Sulfate	NELAP	10.0		**390**	mg/L	10	02/15/2026 20:01	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**71.3**	µg/L	1	02/14/2026 16:36	251804
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 16:36	251804
Boron	NELAP	20.0		**2840**	µg/L	1	02/14/2026 16:36	251804
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 16:36	251804
Calcium	NELAP	0.100		**205**	mg/L	1	02/14/2026 16:36	251804
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:36	251804
Cobalt	NELAP	5.0		**6.3**	µg/L	1	02/14/2026 16:36	251804
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 16:36	251804
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 16:36	251804
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 5:59	251804
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	02/23/2026 20:41	251804
Lithium	*	3.0		**7.1**	µg/L	5	02/23/2026 20:41	251804
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/23/2026 20:41	251804
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 5:59	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/17/2026 12:59	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/11/2026 7:43	R381190
Combined 226/228 Uncertainty	*	0		**0.650**	pci/L	1	03/11/2026 7:43	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.100**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**ND**	pci/L	1	03/09/2026 13:01	R381189
Radium-228 Uncertainty	*	0		**0.550**	+/-	1	03/09/2026 13:01	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 02/12/2026 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	02/12/2026 10:15	R379198
Depth to water	*	-5.00		**7.43**	ft	1	02/12/2026 10:15	R379198
Depth to water from measuring point	*	0		**9.98**	ft	1	02/12/2026 10:15	R379198
Elevation of groundwater surface	*	0		**525.27**	ft	1	02/12/2026 10:15	R379198
Measuring Point Elevation	*	0		**535.25**	ft	1	02/12/2026 10:15	R379198
Measuring Point Height Above Land Surface	*	0		**2.55**	ft	1	02/12/2026 10:15	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**36**	NTU	1	02/12/2026 10:15	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**53.7**	°F	1	02/12/2026 10:15	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.62**		1	02/12/2026 10:15	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1320**	µmhos/cm @25C	1	02/12/2026 10:15	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1190**	mg/L	1	02/18/2026 16:51	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/15/2026 20:14	R379074
Chloride	NELAP	5.00		**72.8**	mg/L	10	02/15/2026 20:14	R379074
Sulfate	NELAP	10.0		**608**	mg/L	10	02/15/2026 20:14	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**134**	µg/L	1	02/14/2026 16:38	251804
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 16:38	251804
Boron	NELAP	20.0		**15900**	µg/L	1	02/14/2026 16:38	251804
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 16:38	251804
Calcium	NELAP	0.100		**195**	mg/L	1	02/14/2026 16:38	251804
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:38	251804
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:38	251804
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 16:38	251804
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 16:38	251804
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 6:04	251804
Arsenic	NELAP	1.0		**17.5**	µg/L	5	02/23/2026 20:46	251804
Lithium	*	3.0		**4.7**	µg/L	5	02/23/2026 20:46	251804
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/23/2026 20:46	251804
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 6:04	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/17/2026 13:01	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Combined 226/228 Uncertainty	*	0		**0.760**	+/-	1	02/27/2026 7:28	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**1.12**	pci/L	1	02/26/2026 13:46	R381189
Radium-228 Uncertainty	*	0		**0.680**	+/-	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 02/11/2026 14:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.19**	ft	1	02/11/2026 14:21	R379198
Depth to water	*	-5.00		**9.80**	ft	1	02/11/2026 14:21	R379198
Depth to water from measuring point	*	0		**12.94**	ft	1	02/11/2026 14:21	R379198
Elevation of groundwater surface	*	0		**542.66**	ft	1	02/11/2026 14:21	R379198
Measuring Point Elevation	*	0		**555.60**	ft	1	02/11/2026 14:21	R379198
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	02/11/2026 14:21	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.0**	NTU	1	02/11/2026 14:21	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.7**	°F	1	02/11/2026 14:21	R379198
SW-846 9040B								
pH, Field	*	1.00		**7.27**		1	02/11/2026 14:21	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**674**	µmhos/cm @25C	1	02/11/2026 14:21	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**426**	mg/L	1	02/18/2026 9:56	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 11:11	R379009
Chloride	NELAP	5.00		**12.5**	mg/L	10	02/13/2026 11:11	R379009
Sulfate	NELAP	10.0		**ND**	mg/L	10	02/13/2026 11:11	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**243**	µg/L	1	02/14/2026 13:57	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 13:57	251742
Boron	NELAP	20.0		**96.2**	µg/L	1	02/14/2026 13:57	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 13:57	251742
Calcium	NELAP	0.100		**81.8**	mg/L	1	02/14/2026 13:57	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 13:57	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 13:57	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 13:57	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 13:57	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 22:52	251742
Arsenic	NELAP	1.0		**2.6**	µg/L	5	02/20/2026 22:52	251742
Lithium	*	3.0		**8.0**	µg/L	5	02/20/2026 22:52	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 22:52	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/20/2026 22:52	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:17	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Combined 226/228 Uncertainty	*	0		**0.770**	+/-	1	02/27/2026 7:28	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/26/2026 13:46	R381189
Radium-228 Uncertainty	*	0		**0.690**	+/-	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power **Work Order:** 26020092

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Mar-26

Lab ID: 26020092-006 **Client Sample ID:** AP-5

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 13:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	02/11/2026 13:44	R379198
Depth to water	*	-5.00		**16.92**	ft	1	02/11/2026 13:44	R379198
Depth to water from measuring point	*	0		**19.22**	ft	1	02/11/2026 13:44	R379198
Elevation of groundwater surface	*	0		**564.68**	ft	1	02/11/2026 13:44	R379198
Measuring Point Elevation	*	0		**583.90**	ft	1	02/11/2026 13:44	R379198
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	02/11/2026 13:44	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	02/11/2026 13:44	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.7**	°F	1	02/11/2026 13:44	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.87**		1	02/11/2026 13:44	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**745**	µmhos/cm @25C	1	02/11/2026 13:44	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**496**	mg/L	1	02/18/2026 9:56	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 11:24	R379009
Chloride	NELAP	5.00		**10.0**	mg/L	10	02/13/2026 11:24	R379009
Sulfate	NELAP	10.0		**70.7**	mg/L	10	02/13/2026 11:24	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**64.4**	µg/L	1	02/14/2026 13:59	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 13:59	251742
Boron	NELAP	20.0		**37.3**	µg/L	1	02/14/2026 13:59	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 13:59	251742
Calcium	NELAP	0.100		**106**	mg/L	1	02/14/2026 13:59	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 13:59	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 13:59	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 13:59	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 13:59	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 22:58	251742
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 22:58	251742
Lithium	*	3.0		**6.0**	µg/L	5	02/20/2026 22:58	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 22:58	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/20/2026 22:58	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:19	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Combined 226/228 Uncertainty	*	0		**0.700**	+/-	1	02/27/2026 7:28	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/26/2026 13:46	R381189
Radium-228 Uncertainty	*	0		**0.620**	+/-	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 02/12/2026 9:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	02/12/2026 9:47	R379198
Depth to water	*	-5.00		**8.87**	ft	1	02/12/2026 9:47	R379198
Depth to water from measuring point	*	0		**11.29**	ft	1	02/12/2026 9:47	R379198
Elevation of groundwater surface	*	0		**526.53**	ft	1	02/12/2026 9:47	R379198
Measuring Point Elevation	*	0		**537.82**	ft	1	02/12/2026 9:47	R379198
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	02/12/2026 9:47	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**24**	NTU	1	02/12/2026 9:47	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**47.1**	°F	1	02/12/2026 9:47	R379198
SW-846 9040B								
pH, Field	*	1.00		**7.11**		1	02/12/2026 9:47	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**777**	µmhos/cm @25C	1	02/12/2026 9:47	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**402**	mg/L	1	02/18/2026 16:57	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**0.52**	mg/L	10	02/15/2026 20:26	R379074
Chloride	NELAP	5.00		**35.8**	mg/L	10	02/15/2026 20:26	R379074
Sulfate	NELAP	10.0		**ND**	mg/L	10	02/15/2026 20:26	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**153**	µg/L	1	02/14/2026 16:40	251804
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 16:40	251804
Boron	NELAP	20.0		**269**	µg/L	1	02/14/2026 16:40	251804
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 16:40	251804
Calcium	NELAP	0.100		**68.8**	mg/L	1	02/14/2026 16:40	251804
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:40	251804
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:40	251804
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 16:40	251804
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 16:40	251804
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 6:10	251804
Arsenic	NELAP	1.0		**11.4**	µg/L	5	02/23/2026 20:52	251804
Lithium	*	3.0		**6.0**	µg/L	5	02/23/2026 20:52	251804
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/23/2026 20:52	251804
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 6:10	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/17/2026 13:04	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Combined 226/228 Uncertainty	*	0		**0.810**	+/-	1	02/27/2026 7:28	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**1.55**	pci/L	1	02/26/2026 13:46	R381189
Radium-228 Uncertainty	*	0		**0.740**	+/-	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 02/11/2026 12:37

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	02/11/2026 12:37	R379198
Depth to water	*	-5.00		**11.48**	ft	1	02/11/2026 12:37	R379198
Depth to water from measuring point	*	0		**14.14**	ft	1	02/11/2026 12:37	R379198
Elevation of groundwater surface	*	0		**524.88**	ft	1	02/11/2026 12:37	R379198
Measuring Point Elevation	*	0		**539.02**	ft	1	02/11/2026 12:37	R379198
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	02/11/2026 12:37	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.8**	NTU	1	02/11/2026 12:37	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.2**	°F	1	02/11/2026 12:37	R379198
SW-846 9040B								
pH, Field	*	1.00		**7.13**		1	02/11/2026 12:37	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**807**	µmhos/cm @25C	1	02/11/2026 12:37	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**498**	mg/L	1	02/18/2026 9:56	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**0.59**	mg/L	10	02/13/2026 11:36	R379009
Chloride	NELAP	5.00		**84.9**	mg/L	10	02/13/2026 11:36	R379009
Sulfate	NELAP	10.0		**ND**	mg/L	10	02/13/2026 11:36	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**157**	µg/L	1	02/14/2026 14:01	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:01	251742
Boron	NELAP	20.0		**462**	µg/L	1	02/14/2026 14:01	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:01	251742
Calcium	NELAP	0.100		**54.4**	mg/L	1	02/14/2026 14:01	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:01	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:01	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:01	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:01	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 23:03	251742
Arsenic	NELAP	1.0		**32.5**	µg/L	5	02/20/2026 23:03	251742
Lithium	*	3.0		**11.7**	µg/L	5	02/20/2026 23:03	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 23:03	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/20/2026 23:03	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:21	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Combined 226/228 Uncertainty	*	0		**0.700**	+/-	1	02/27/2026 7:28	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/26/2026 13:46	R381189
Radium-228 Uncertainty	*	0		**0.620**	+/-	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 02/12/2026 11:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	02/12/2026 11:28	R379198
Depth to water	*	-5.00		**5.86**	ft	1	02/12/2026 11:28	R379198
Depth to water from measuring point	*	0		**8.76**	ft	1	02/12/2026 11:28	R379198
Elevation of groundwater surface	*	0		**528.44**	ft	1	02/12/2026 11:28	R379198
Measuring Point Elevation	*	0		**537.20**	ft	1	02/12/2026 11:28	R379198
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	02/12/2026 11:28	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.4**	NTU	1	02/12/2026 11:28	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.0**	°F	1	02/12/2026 11:28	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.93**		1	02/12/2026 11:28	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**856**	µmhos/cm @25C	1	02/12/2026 11:28	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**530**	mg/L	1	02/18/2026 16:57	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/15/2026 20:39	R379074
Chloride	NELAP	5.00		**23.4**	mg/L	10	02/15/2026 20:39	R379074
Sulfate	NELAP	10.0		**ND**	mg/L	10	02/15/2026 20:39	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**373**	µg/L	1	02/14/2026 16:41	251804
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 16:41	251804
Boron	NELAP	20.0		**85.6**	µg/L	1	02/14/2026 16:41	251804
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 16:41	251804
Calcium	NELAP	0.100		**99.0**	mg/L	1	02/14/2026 16:41	251804
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:41	251804
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:41	251804
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 16:41	251804
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 16:41	251804
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 6:16	251804
Arsenic	NELAP	1.0		**39.4**	µg/L	5	02/24/2026 10:25	251804
Lithium	*	3.0		**6.8**	µg/L	5	02/24/2026 10:25	251804
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/24/2026 10:25	251804
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 6:16	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/17/2026 13:06	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**2.25**	pci/L	1	02/27/2026 7:28	R381190
Combined 226/228 Uncertainty	*	0		**0.990**	+/-	1	02/27/2026 7:28	R381190
Radium-226	*	1.00		**1.00**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.160**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**1.25**	pci/L	1	02/26/2026 13:46	R381189
Radium-228 Uncertainty	*	0		**0.830**	+/-	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power **Work Order:** 26020092

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Mar-26

Lab ID: 26020092-010 **Client Sample ID:** AP-9

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 10:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.70**	ft	1	02/11/2026 10:32	R379198
Depth to water	*	-5.00		**10.99**	ft	1	02/11/2026 10:32	R379198
Depth to water from measuring point	*	0		**14.09**	ft	1	02/11/2026 10:32	R379198
Elevation of groundwater surface	*	0		**526.21**	ft	1	02/11/2026 10:32	R379198
Measuring Point Elevation	*	0		**540.30**	ft	1	02/11/2026 10:32	R379198
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	02/11/2026 10:32	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	02/11/2026 10:32	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.4**	°F	1	02/11/2026 10:32	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.70**		1	02/11/2026 10:32	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**998**	µmhos/cm @25C	1	02/11/2026 10:32	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**630**	mg/L	1	02/18/2026 10:11	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 11:49	R379009
Chloride	NELAP	5.00		**24.6**	mg/L	10	02/13/2026 11:49	R379009
Sulfate	NELAP	10.0		**14.7**	mg/L	10	02/13/2026 11:49	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**440**	µg/L	1	02/14/2026 14:02	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:02	251742
Boron	NELAP	20.0		**98.5**	µg/L	1	02/14/2026 14:02	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:02	251742
Calcium	NELAP	0.100		**104**	mg/L	1	02/14/2026 14:02	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:02	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:02	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:02	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:02	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 23:09	251742
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	02/23/2026 15:32	251742
Lithium	*	3.0		**5.7**	µg/L	5	02/20/2026 23:09	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 23:09	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/20/2026 23:09	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:23	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Combined 226/228 Uncertainty	*	0		**1.03**	+/-	1	02/27/2026 7:28	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.120**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**1.22**	pci/L	1	02/26/2026 13:46	R381189
Radium-228 Uncertainty	*	0		**0.910**	+/-	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-011
Client Sample ID: AP10
Matrix: GROUNDWATER
Collection Date: 02/12/2026 10:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	02/12/2026 10:53	R379198
Depth to water	*	-5.00		**4.29**	ft	1	02/12/2026 10:53	R379198
Depth to water from measuring point	*	0		**7.39**	ft	1	02/12/2026 10:53	R379198
Elevation of groundwater surface	*	0		**530.11**	ft	1	02/12/2026 10:53	R379198
Measuring Point Elevation	*	0		**537.50**	ft	1	02/12/2026 10:53	R379198
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	02/12/2026 10:53	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**1.7**	NTU	1	02/12/2026 10:53	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**53.1**	°F	1	02/12/2026 10:53	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.71**		1	02/12/2026 10:53	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1080**	µmhos/cm @25C	1	02/12/2026 10:53	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**796**	mg/L	1	02/18/2026 16:57	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/15/2026 20:52	R379074
Chloride	NELAP	5.00		**25.9**	mg/L	10	02/15/2026 20:52	R379074
Sulfate	NELAP	10.0		**91.2**	mg/L	10	02/15/2026 20:52	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**636**	µg/L	1	02/14/2026 16:43	251804
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 16:43	251804
Boron	NELAP	20.0		**3970**	µg/L	1	02/14/2026 16:43	251804
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 16:43	251804
Calcium	NELAP	0.100		**149**	mg/L	1	02/14/2026 16:43	251804
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:43	251804
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:43	251804
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 16:43	251804
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 16:43	251804
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 6:21	251804
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	02/24/2026 10:30	251804
Lithium	*	3.0		**9.0**	µg/L	5	02/24/2026 10:30	251804
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/24/2026 10:30	251804
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 6:21	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/17/2026 13:08	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**2.99**	pci/L	1	03/11/2026 7:43	R381190
Combined 226/228 Uncertainty	*	0		**0.750**	+/-	1	03/11/2026 7:43	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.170**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**2.01**	pci/L	1	03/09/2026 13:01	R381189
Radium-228 Uncertainty	*	0		**0.580**	+/-	1	03/09/2026 13:01	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-012
Client Sample ID: AP11
Matrix: GROUNDWATER
Collection Date: 02/11/2026 9:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.15**	ft	1	02/11/2026 9:54	R379198
Depth to water	*	-5.00		**12.62**	ft	1	02/11/2026 9:54	R379198
Depth to water from measuring point	*	0		**15.42**	ft	1	02/11/2026 9:54	R379198
Elevation of groundwater surface	*	0		**522.68**	ft	1	02/11/2026 9:54	R379198
Measuring Point Elevation	*	0		**538.10**	ft	1	02/11/2026 9:54	R379198
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	02/11/2026 9:54	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.2**	NTU	1	02/11/2026 9:54	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**50.4**	°F	1	02/11/2026 9:54	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.49**		1	02/11/2026 9:54	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1070**	µmhos/cm @25C	1	02/11/2026 9:54	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**676**	mg/L	1	02/18/2026 10:11	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 12:02	R379009
Chloride	NELAP	5.00		**112**	mg/L	10	02/13/2026 12:02	R379009
Sulfate	NELAP	10.0		**64.4**	mg/L	10	02/13/2026 12:02	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**124**	µg/L	1	02/14/2026 14:04	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:04	251742
Boron	NELAP	20.0		**268**	µg/L	1	02/14/2026 14:04	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:04	251742
Calcium	NELAP	0.100	S	**132**	mg/L	1	02/14/2026 14:04	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:04	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:04	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:04	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:04	251742
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 23:15	251742
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 23:15	251742
Lithium	*	3.0		**5.8**	µg/L	5	02/20/2026 23:15	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/20/2026 23:15	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/20/2026 23:15	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:29	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Combined 226/228 Uncertainty	*	0		**0.870**	+/-	1	02/27/2026 7:28	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**1.42**	pci/L	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-012
Client Sample ID: AP11
Matrix: GROUNDWATER
Collection Date: 02/11/2026 9:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.800**	+/-	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-013
Client Sample ID: AP12
Matrix: GROUNDWATER
Collection Date: 02/11/2026 11:11

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**510.30**	ft	1	02/11/2026 11:11	R379198
Depth to water	*	-5.00		**15.23**	ft	1	02/11/2026 11:11	R379198
Depth to water from measuring point	*	0		**18.13**	ft	1	02/11/2026 11:11	R379198
Elevation of groundwater surface	*	0		**522.57**	ft	1	02/11/2026 11:11	R379198
Measuring Point Elevation	*	0		**540.70**	ft	1	02/11/2026 11:11	R379198
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	02/11/2026 11:11	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**25**	NTU	1	02/11/2026 11:11	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**52.7**	°F	1	02/11/2026 11:11	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	02/11/2026 11:11	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1470**	µmhos/cm @25C	1	02/11/2026 11:11	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1090**	mg/L	1	02/18/2026 10:11	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 12:14	R379009
Chloride	NELAP	5.00		**110**	mg/L	10	02/13/2026 12:14	R379009
Sulfate	NELAP	10.0		**362**	mg/L	10	02/13/2026 12:14	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**56.0**	µg/L	1	02/14/2026 14:09	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:09	251742
Boron	NELAP	20.0		**34.4**	µg/L	1	02/14/2026 14:09	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:09	251742
Calcium	NELAP	0.100		**190**	mg/L	1	02/14/2026 14:09	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:09	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:09	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:09	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:09	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:19	251742
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:19	251742
Lithium	*	3.0		**6.9**	µg/L	5	02/24/2026 11:39	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:19	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 0:19	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:32	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Combined 226/228 Uncertainty	*	0		**0.630**	+/-	1	02/27/2026 7:28	R381190
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R381190
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	02/27/2026 7:28	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/26/2026 13:46	R381189
Radium-228 Uncertainty	*	0		**0.560**	+/-	1	02/26/2026 13:46	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-014
Client Sample ID: AP13
Matrix: GROUNDWATER
Collection Date: 02/11/2026 11:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.00**	ft	1	02/11/2026 11:51	R379198
Depth to water	*	-5.00		**16.37**	ft	1	02/11/2026 11:51	R379198
Depth to water from measuring point	*	0		**19.77**	ft	1	02/11/2026 11:51	R379198
Elevation of groundwater surface	*	0		**522.23**	ft	1	02/11/2026 11:51	R379198
Measuring Point Elevation	*	0		**542.00**	ft	1	02/11/2026 11:51	R379198
Measuring Point Height Above Land Surface	*	0		**3.40**	ft	1	02/11/2026 11:51	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**30**	NTU	1	02/11/2026 11:51	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**51.5**	°F	1	02/11/2026 11:51	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.67**		1	02/11/2026 11:51	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**821**	µmhos/cm @25C	1	02/11/2026 11:51	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**556**	mg/L	1	02/18/2026 10:11	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 12:27	R379009
Chloride	NELAP	5.00		**25.9**	mg/L	10	02/13/2026 12:27	R379009
Sulfate	NELAP	10.0		**114**	mg/L	10	02/13/2026 12:27	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**120**	µg/L	1	02/14/2026 14:10	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:10	251742
Boron	NELAP	20.0		**32.2**	µg/L	1	02/14/2026 14:10	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:10	251742
Calcium	NELAP	0.100		**110**	mg/L	1	02/14/2026 14:10	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:10	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:10	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:10	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:10	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:25	251742
Arsenic	NELAP	1.0		**1.8**	µg/L	5	02/21/2026 0:25	251742
Lithium	*	3.0		**11.8**	µg/L	5	02/23/2026 16:24	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:25	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 0:25	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:34	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Combined 226/228 Uncertainty	*	0		**0.430**	+/-	1	03/02/2026 7:52	R381190
Radium-226	*	1.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	03/02/2026 7:52	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/27/2026 12:43	R381189
Radium-228 Uncertainty	*	0		**0.350**	+/-	1	02/27/2026 12:43	R381189

Client: City Water, Light & Power **Work Order:** 26020092

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Mar-26

Lab ID: 26020092-015 **Client Sample ID:** AP14

Matrix: GROUNDWATER **Collection Date:** 02/12/2026 9:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	02/12/2026 9:41	R379198
Depth to water	*	-5.00		**0.69**	ft	1	02/12/2026 9:41	R379198
Depth to water from measuring point	*	0		**3.49**	ft	1	02/12/2026 9:41	R379198
Elevation of groundwater surface	*	0		**536.11**	ft	1	02/12/2026 9:41	R379198
Measuring Point Elevation	*	0		**539.60**	ft	1	02/12/2026 9:41	R379198
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	02/12/2026 9:41	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	02/12/2026 9:41	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**50.5**	°F	1	02/12/2026 9:41	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.90**		1	02/12/2026 9:41	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1900**	µmhos/cm @25C	1	02/12/2026 9:41	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1950**	mg/L	1	02/18/2026 16:57	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/15/2026 21:04	R379074
Chloride	NELAP	5.00		**124**	mg/L	10	02/15/2026 21:04	R379074
Sulfate	NELAP	10.0		**1110**	mg/L	10	02/15/2026 21:04	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**51.9**	µg/L	1	02/14/2026 16:52	251804
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 16:52	251804
Boron	NELAP	200		**22700**	µg/L	10	02/18/2026 15:43	251804
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 16:52	251804
Calcium	NELAP	0.100		**312**	mg/L	1	02/14/2026 16:52	251804
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:52	251804
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:52	251804
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 16:52	251804
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 16:52	251804
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 6:27	251804
Arsenic	NELAP	1.0		**2.9**	µg/L	5	02/24/2026 11:44	251804
Lithium	*	3.0		**8.6**	µg/L	5	02/24/2026 11:44	251804
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/24/2026 11:44	251804
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 6:27	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/17/2026 13:46	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Combined 226/228 Uncertainty	*	0		**0.650**	+/-	1	03/02/2026 7:52	R381190
Radium-226	*	1.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Radium-226 Uncertainty	*	0		**0.100**	+/-	1	03/02/2026 7:52	R381190
Radium-228	*	1.00		**1.10**	pci/L	1	02/27/2026 12:43	R381189
Radium-228 Uncertainty	*	0		**0.550**	+/-	1	02/27/2026 12:43	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-016
Client Sample ID: T-01
Matrix: GROUNDWATER
Collection Date: 02/11/2026 12:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**512.70**	ft	1	02/11/2026 12:41	R379198
Depth to water	*	-5.00		**14.42**	ft	1	02/11/2026 12:41	R379198
Depth to water from measuring point	*	0		**14.75**	ft	1	02/11/2026 12:41	R379198
Elevation of groundwater surface	*	0		**520.90**	ft	1	02/11/2026 12:41	R379198
Measuring Point Elevation	*	0		**535.65**	ft	1	02/11/2026 12:41	R379198
Measuring Point Height Above Land Surface	*	0		**0.33**	ft	1	02/11/2026 12:41	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**21**	NTU	1	02/11/2026 12:41	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**52.7**	°F	1	02/11/2026 12:41	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	02/11/2026 12:41	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1530**	µmhos/cm @25C	1	02/11/2026 12:41	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1020**	mg/L	1	02/18/2026 10:11	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 12:40	R379009
Chloride	NELAP	5.00		**249**	mg/L	10	02/13/2026 12:40	R379009
Sulfate	NELAP	10.0		**176**	mg/L	10	02/13/2026 12:40	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**64.8**	µg/L	1	02/14/2026 14:20	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:20	251742
Boron	NELAP	20.0		**159**	µg/L	1	02/14/2026 14:20	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:20	251742
Calcium	NELAP	0.100		**165**	mg/L	1	02/14/2026 14:20	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:20	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:20	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:20	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:20	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:30	251742
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:30	251742
Lithium	*	3.0		**15.8**	µg/L	5	02/23/2026 16:30	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:30	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 0:30	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:36	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Combined 226/228 Uncertainty	*	0		**0.370**	+/-	1	03/02/2026 7:52	R381190
Radium-226	*	1.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	03/02/2026 7:52	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/27/2026 12:43	R381189
Radium-228 Uncertainty	*	0		**0.310**	+/-	1	02/27/2026 12:43	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-017
Client Sample ID: T-02
Matrix: GROUNDWATER
Collection Date: 02/11/2026 10:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.18**	ft	1	02/11/2026 10:32	R379198
Depth to water	*	-5.00		**24.91**	ft	1	02/11/2026 10:32	R379198
Depth to water from measuring point	*	0		**27.31**	ft	1	02/11/2026 10:32	R379198
Elevation of groundwater surface	*	0		**522.31**	ft	1	02/11/2026 10:32	R379198
Measuring Point Elevation	*	0		**549.62**	ft	1	02/11/2026 10:32	R379198
Measuring Point Height Above Land Surface	*	0		**2.40**	ft	1	02/11/2026 10:32	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.3**	NTU	1	02/11/2026 10:32	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**51.3**	°F	1	02/11/2026 10:32	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	02/11/2026 10:32	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2060**	µmhos/cm @25C	1	02/11/2026 10:32	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1270**	mg/L	1	02/18/2026 10:27	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 13:56	R379009
Chloride	NELAP	5.00		**462**	mg/L	10	02/13/2026 13:56	R379009
Sulfate	NELAP	10.0		**87.0**	mg/L	10	02/13/2026 13:56	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**200**	µg/L	1	02/14/2026 14:21	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:21	251742
Boron	NELAP	20.0		**47.9**	µg/L	1	02/14/2026 14:21	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:21	251742
Calcium	NELAP	0.100		**206**	mg/L	1	02/14/2026 14:21	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:21	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:21	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:21	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:21	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:36	251742
Arsenic	NELAP	1.0		**5.5**	µg/L	5	02/21/2026 0:36	251742
Lithium	*	3.0		**33.8**	µg/L	5	02/27/2026 13:19	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:36	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 0:36	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:42	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Combined 226/228 Uncertainty	*	0		**0.500**	+/-	1	03/02/2026 7:52	R381190
Radium-226	*	1.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Radium-226 Uncertainty	*	0		**0.110**	+/-	1	03/02/2026 7:52	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/27/2026 12:43	R381189
Radium-228 Uncertainty	*	0		**0.390**	+/-	1	02/27/2026 12:43	R381189

Client: City Water, Light & Power **Work Order:** 26020092

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Mar-26

Lab ID: 26020092-018 **Client Sample ID:** T-04

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 9:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**521.52**	ft	1	02/11/2026 9:51	R379198
Depth to water	*	-5.00		**18.01**	ft	1	02/11/2026 9:51	R379198
Depth to water from measuring point	*	0		**20.39**	ft	1	02/11/2026 9:51	R379198
Elevation of groundwater surface	*	0		**528.55**	ft	1	02/11/2026 9:51	R379198
Measuring Point Elevation	*	0		**548.94**	ft	1	02/11/2026 9:51	R379198
Measuring Point Height Above Land Surface	*	0		**2.38**	ft	1	02/11/2026 9:51	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**81**	NTU	1	02/11/2026 9:51	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**52.8**	°F	1	02/11/2026 9:51	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.36**		1	02/11/2026 9:51	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**530**	µmhos/cm @25C	1	02/11/2026 9:51	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**340**	mg/L	1	02/18/2026 10:27	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 14:09	R379009
Chloride	NELAP	5.00		**ND**	mg/L	10	02/13/2026 14:09	R379009
Sulfate	NELAP	10.0		**76.0**	mg/L	10	02/13/2026 14:09	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**41.4**	µg/L	1	02/14/2026 14:23	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:23	251742
Boron	NELAP	20.0		**42.2**	µg/L	1	02/14/2026 14:23	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:23	251742
Calcium	NELAP	0.100		**61.9**	mg/L	1	02/14/2026 14:23	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:23	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:23	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:23	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:23	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:42	251742
Arsenic	NELAP	1.0		**2.6**	µg/L	5	02/21/2026 0:42	251742
Lithium	*	3.0		**31.6**	µg/L	5	02/24/2026 8:10	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:42	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 0:42	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:44	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Combined 226/228 Uncertainty	*	0		**0.450**	+/-	1	03/02/2026 7:52	R381190
Radium-226	*	1.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Radium-226 Uncertainty	*	0		**0.090**	+/-	1	03/02/2026 7:52	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/27/2026 12:43	R381189
Radium-228 Uncertainty	*	0		**0.360**	+/-	1	02/27/2026 12:43	R381189

Client: City Water, Light & Power **Work Order:** 26020092

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Mar-26

Lab ID: 26020092-019 **Client Sample ID:** T-05

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 11:26

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**518.32**	ft	1	02/11/2026 11:26	R379198
Depth to water	*	-5.00		**12.00**	ft	1	02/11/2026 11:26	R379198
Depth to water from measuring point	*	0		**14.51**	ft	1	02/11/2026 11:26	R379198
Elevation of groundwater surface	*	0		**526.15**	ft	1	02/11/2026 11:26	R379198
Measuring Point Elevation	*	0		**540.66**	ft	1	02/11/2026 11:26	R379198
Measuring Point Height Above Land Surface	*	0		**2.51**	ft	1	02/11/2026 11:26	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.5**	NTU	1	02/11/2026 11:26	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.1**	°F	1	02/11/2026 11:26	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.68**		1	02/11/2026 11:26	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**813**	µmhos/cm @25C	1	02/11/2026 11:26	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**520**	mg/L	1	02/18/2026 10:27	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 14:21	R379009
Chloride	NELAP	5.00		**ND**	mg/L	10	02/13/2026 14:21	R379009
Sulfate	NELAP	10.0		**106**	mg/L	10	02/13/2026 14:21	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**98.6**	µg/L	1	02/14/2026 14:25	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:25	251742
Boron	NELAP	20.0		**134**	µg/L	1	02/14/2026 14:25	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:25	251742
Calcium	NELAP	0.100		**102**	mg/L	1	02/14/2026 14:25	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:25	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:25	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:25	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:25	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:47	251742
Arsenic	NELAP	1.0		**3.3**	µg/L	5	02/21/2026 0:47	251742
Lithium	*	3.0		**13.6**	µg/L	5	02/24/2026 8:58	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:47	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 0:47	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:47	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Combined 226/228 Uncertainty	*	0		**0.630**	+/-	1	03/02/2026 7:52	R381190
Radium-226	*	1.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Radium-226 Uncertainty	*	0		**0.090**	+/-	1	03/02/2026 7:52	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/27/2026 12:43	R381189
Radium-228 Uncertainty	*	0		**0.540**	+/-	1	02/27/2026 12:43	R381189

Client: City Water, Light & Power **Work Order:** 26020092

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Mar-26

Lab ID: 26020092-020 **Client Sample ID:** T-06

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 12:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**494.70**	ft	1	02/11/2026 12:02	R379198
Depth to water	*	-5.00		**10.78**	ft	1	02/11/2026 12:02	R379198
Depth to water from measuring point	*	0		**13.14**	ft	1	02/11/2026 12:02	R379198
Elevation of groundwater surface	*	0		**525.18**	ft	1	02/11/2026 12:02	R379198
Measuring Point Elevation	*	0		**538.32**	ft	1	02/11/2026 12:02	R379198
Measuring Point Height Above Land Surface	*	0		**2.36**	ft	1	02/11/2026 12:02	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**66**	NTU	1	02/11/2026 12:02	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.2**	°F	1	02/11/2026 12:02	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.78**		1	02/11/2026 12:02	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**862**	µmhos/cm @25C	1	02/11/2026 12:02	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**534**	mg/L	1	02/18/2026 10:27	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 14:34	R379009
Chloride	NELAP	5.00		**20.1**	mg/L	10	02/13/2026 14:34	R379009
Sulfate	NELAP	10.0		**ND**	mg/L	10	02/13/2026 14:34	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**321**	µg/L	1	02/14/2026 14:26	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:26	251742
Boron	NELAP	20.0		**209**	µg/L	1	02/14/2026 14:26	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:26	251742
Calcium	NELAP	0.100		**93.2**	mg/L	1	02/14/2026 14:26	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:26	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:26	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:26	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:26	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:53	251742
Arsenic	NELAP	1.0		**11.4**	µg/L	5	02/21/2026 0:53	251742
Lithium	*	3.0		**20.1**	µg/L	5	02/24/2026 9:03	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:53	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 0:53	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:53	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Combined 226/228 Uncertainty	*	0		**0.630**	+/-	1	03/02/2026 7:52	R381190
Radium-226	*	1.00		**1.13**	pci/L	1	03/02/2026 7:52	R381190
Radium-226 Uncertainty	*	0		**0.150**	+/-	1	03/02/2026 7:52	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/27/2026 12:43	R381189
Radium-228 Uncertainty	*	0		**0.480**	+/-	1	02/27/2026 12:43	R381189

Client: City Water, Light & Power **Work Order:** 26020092

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Mar-26

Lab ID: 26020092-021 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 12:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	02/11/2026 12:52	R379198
Depth to water	*	-5.00		**15.16**	ft	1	02/11/2026 12:52	R379198
Depth to water from measuring point	*	0		**17.91**	ft	1	02/11/2026 12:52	R379198
Elevation of groundwater surface	*	0		**537.69**	ft	1	02/11/2026 12:52	R379198
Measuring Point Elevation	*	0		**555.60**	ft	1	02/11/2026 12:52	R379198
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	02/11/2026 12:52	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	02/11/2026 12:52	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	02/11/2026 12:52	R379198
SW-846 9040B								
pH, Field	*	1.00		**6.66**		1	02/11/2026 12:52	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1600**	µmhos/cm @25C	1	02/11/2026 12:52	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1110**	mg/L	1	02/18/2026 10:27	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 14:47	R379009
Chloride	NELAP	5.00		**37.5**	mg/L	10	02/13/2026 14:47	R379009
Sulfate	NELAP	10.0		**397**	mg/L	10	02/13/2026 14:47	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**491**	µg/L	1	02/14/2026 14:28	251742
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 14:28	251742
Boron	NELAP	20.0		**9240**	µg/L	1	02/14/2026 14:28	251742
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 14:28	251742
Calcium	NELAP	0.100		**198**	mg/L	1	02/14/2026 14:28	251742
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:28	251742
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 14:28	251742
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 14:28	251742
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 14:28	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:59	251742
Arsenic	NELAP	1.0		**152**	µg/L	5	02/21/2026 0:59	251742
Lithium	*	3.0		**8.9**	µg/L	5	02/24/2026 9:08	251742
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 0:59	251742
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 0:59	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/14/2026 18:55	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Combined 226/228 Uncertainty	*	0		**0.520**	+/-	1	03/02/2026 7:52	R381190
Radium-226	*	1.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	03/02/2026 7:52	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/27/2026 12:43	R381189
Radium-228 Uncertainty	*	0		**0.440**	+/-	1	02/27/2026 12:43	R381189

Client: City Water, Light & Power
Work Order: 26020092
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Mar-26
Lab ID: 26020092-022
Client Sample ID: G120
Matrix: GROUNDWATER
Collection Date: 02/12/2026 11:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	02/12/2026 11:13	R379198
Depth to water	*	-5.00		**19.60**	ft	1	02/12/2026 11:13	R379198
Depth to water from measuring point	*	0		**19.60**	ft	1	02/12/2026 11:13	R379198
Elevation of groundwater surface	*	0		**533.50**	ft	1	02/12/2026 11:13	R379198
Measuring Point Elevation	*	0		**553.10**	ft	1	02/12/2026 11:13	R379198
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	02/12/2026 11:13	R379198
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.6**	NTU	1	02/12/2026 11:13	R379198
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.8**	°F	1	02/12/2026 11:13	R379198
SW-846 9040B								
pH, Field	*	1.00		**7.01**		1	02/12/2026 11:13	R379198
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1870**	µmhos/cm @25C	1	02/12/2026 11:13	R379198
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1430**	mg/L	1	02/18/2026 16:57	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/15/2026 21:55	R379074
Chloride	NELAP	5.00		**37.3**	mg/L	10	02/15/2026 21:55	R379074
Sulfate	NELAP	10.0		**575**	mg/L	10	02/15/2026 21:55	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**498**	µg/L	1	02/14/2026 16:54	251804
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	02/14/2026 16:54	251804
Boron	NELAP	20.0		**7340**	µg/L	1	02/14/2026 16:54	251804
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	02/14/2026 16:54	251804
Calcium	NELAP	0.100		**256**	mg/L	1	02/14/2026 16:54	251804
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:54	251804
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	02/14/2026 16:54	251804
Lead	NELAP	7.5		**< 7.5**	µg/L	1	02/14/2026 16:54	251804
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	02/14/2026 16:54	251804
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	02/21/2026 6:33	251804
Arsenic	NELAP	1.0		**10.5**	µg/L	5	02/24/2026 11:49	251804
Lithium	*	3.0		**7.9**	µg/L	5	02/24/2026 11:49	251804
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	02/24/2026 11:49	251804
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	02/21/2026 6:33	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	02/17/2026 13:49	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Combined 226/228 Uncertainty	*	0		**0.520**	+/-	1	03/02/2026 7:52	R381190
Radium-226	*	1.00		**ND**	pci/L	1	03/02/2026 7:52	R381190
Radium-226 Uncertainty	*	0		**0.110**	+/-	1	03/02/2026 7:52	R381190
Radium-228	*	1.00		**ND**	pci/L	1	02/27/2026 12:43	R381189
Radium-228 Uncertainty	*	0		**0.410**	+/-	1	02/27/2026 12:43	R381189

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26020092
Report Date: 27-Mar-26

Carrier: Brett Gillihan

Received By: LEH

Completed by: Laura E Henson
On: 12-Feb-26

Reviewed by: Amber Dilallo
On: 13-Feb-26

Pages to follow: Chain of custody 4 Extra pages included 74

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 5.4
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #104524. -DM/ lhenson - 2/12/2026 11:12:14 AM

Additional nitric acid (109168) was needed for AW-1 upon arrival at the laboratory. - DM/lhenson - 2/12/2026 11:12:23 AM

Additional cooler temperatures: 10.0C, 7.8C, 3C LTG#9. LH 2/12/26.

Samples were received on 2/12/26 at 1326 on ice [temp10.4C, 8.0C, 6.6C - LTG#9]. pH#104524 -DM/lhenson - 2/13/2026 8:29:59 AM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 26020092

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

5.4/10.0

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 7.8/3.4 °C 9
Preserved in: [X] LAB [X] FIELD Am
FOR LAB USE ONLY
LAB NOTES: PH - 104524, Added HNO3 (109168) to AW-1 (1:1+w)

Client Comments: Am - 2-12-26
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME: Justin Culp

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	CL F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26020092-001	RW-3		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
005	AP-4	2-11 / 1421	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
006	AP-5	2-11 / 1344	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
008	AP-7	2-11 / 1237	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
010	AP-9	2-11 / 1032	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
011	AP10		Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
	2-11-26 1646		2/11/26 1646

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 26020092

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Cdp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26020092-012	AP11	2-11 954	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
013	AP12	2-11 1111	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
014	AP13	2-11 1151	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
015	AP14		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
016	T-01	2-11 1241	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
017	T-02	2-11 1032	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
018	T-04	2-11 / 951	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
019	T-05	2-11 / 1126	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
020	T-06	2-11 / 1202	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
021	AW-1	2-11 1252	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
022	G120		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	2-11 2-11-26 1646		

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 26020092

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 8.0/6.6 °C 10.4 9
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: PH; 104524 Ini 2-16-26

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Brett Gillihan

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26020092-001	RW-3	2-12-26 1028	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
002	AP-1	2-12-26 1030	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
003	AP-2	2-12-26 1106	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
004	AP-3	2-12-26 1015	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
006	AP-5		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
007	AP-6	2-12-26 947	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
008	AP-7		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
009	AP-8	2-12-26 1128	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
010	AP-9		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
011	AP10	2-12-26 1053	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	2/12/26 1326		2/12/26 1326

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 26020092

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

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Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Cdp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26020092-012	AP11		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
013	AP12		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
014	AP13		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
015	AP14	2-12-26 941	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
016	T-01		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
017	T-02		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
018	T-04		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
019	T-05		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
020	T-06		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
021	AW-1		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
022	G120	2-12-26 1113	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	2/12/26 1326		2/12/26 1326

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Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

March 26, 2026

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 26020092

Dear Shelly Hennessy:

Order No.: 26021092

Alliance Technical Group - Akron received 22 sample(s) on 2/16/2026 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **26021092**
Date: **3/26/2026**

CLIENT: TEKLAB Inc,
Project: 26020092

WorkOrder Narrative:
26021092: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

Qualifiers and Acronyms

WO#: **26021092**
Date: **3/26/2026**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

Workorder Sample Summary

WO#: **26021092**

26-Mar-26

CLIENT: TEKLAB Inc,
Project: 26020092

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
26021092-001	26020092-001		2/12/2026 10:28:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-002	26020092-002		2/12/2026 10:30:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-003	26020092-003		2/12/2026 11:06:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-004	26020092-004		2/12/2026 10:15:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-005	26020092-005		2/11/2026 2:21:00 PM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-006	26020092-006		2/11/2026 1:44:00 PM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-007	26020092-007		2/12/2026 9:47:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-008	26020092-008		2/11/2026 12:37:00 PM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-009	26020092-009		2/12/2026 11:28:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-010	26020092-010		2/11/2026 10:32:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-011	26020092-011		2/12/2026 10:53:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-012	26020092-012		2/11/2026 9:54:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-013	26020092-013		2/11/2026 11:11:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-014	26020092-014		2/11/2026 11:51:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-015	26020092-015		2/12/2026 9:41:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-016	26020092-016		2/11/2026 12:41:00 PM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-017	26020092-017		2/11/2026 10:32:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-018	26020092-018		2/11/2026 9:51:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-019	26020092-019		2/11/2026 11:26:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-020	26020092-020		2/11/2026 12:02:00 PM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-021	26020092-021		2/11/2026 12:52:00 PM	2/16/2026 1:00:00 PM	Non-Potable Water
26021092-022	26020092-022		2/12/2026 11:13:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water

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DATES REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26021092-001A	26020092-001	2/12/2026 10:28:00 AM	Non-Potable Water	Radium-226 (903.0)		2/18/2026 7:20:00 AM	2/24/2026 10:44:47 AM
				Radium-226/228 (903.0/904.0)		2/18/2026 7:20:00 AM	2/24/2026 10:44:47 AM
				Radium-228 (904.0)		2/18/2026 7:20:00 AM	2/23/2026 12:19:42 PM
26021092-002A	26020092-002	2/12/2026 10:30:00 AM		Radium-226 (903.0)		2/18/2026 7:20:00 AM	2/24/2026 10:44:47 AM
				Radium-226 (903.0)		3/2/2026 8:00:00 AM	3/6/2026 7:23:17 AM
				Radium-226/228 (903.0/904.0)		2/18/2026 7:20:00 AM	2/24/2026 10:44:47 AM
				Radium-228 (904.0)		3/2/2026 8:00:00 AM	3/5/2026 1:09:11 PM
				Radium-228 (904.0)		2/18/2026 7:20:00 AM	2/23/2026 12:19:42 PM
26021092-003A	26020092-003	2/12/2026 11:06:00 AM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		3/3/2026 9:00:00 AM	3/11/2026 7:43:21 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
				Radium-228 (904.0)		3/3/2026 9:00:00 AM	3/9/2026 1:01:32 PM
26021092-004A	26020092-004	2/12/2026 10:15:00 AM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-005A	26020092-005	2/11/2026 2:21:00 PM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-006A	26020092-006	2/11/2026 1:44:00 PM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-007A	26020092-007	2/12/2026 9:47:00 AM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM

Original

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DATES REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26021092-007A	26020092-007	2/12/2026 9:47:00 AM	Non-Potable Water	Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-008A	26020092-008	2/11/2026 12:37:00 PM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-009A	26020092-009	2/12/2026 11:28:00 AM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-010A	26020092-010	2/11/2026 10:32:00 AM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-011A	26020092-011	2/12/2026 10:53:00 AM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		3/3/2026 9:00:00 AM	3/11/2026 7:43:21 AM
				Radium-228 (904.0)		3/3/2026 9:00:00 AM	3/9/2026 1:01:32 PM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-012A	26020092-012	2/11/2026 9:54:00 AM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-013A	26020092-013	2/11/2026 11:11:00 AM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021092-014A	26020092-014	2/11/2026 11:51:00 AM		Radium-226 (903.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-228 (904.0)		2/19/2026 11:41:00 AM	2/27/2026 12:43:09 PM

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DATES REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26021092-015A	26020092-015	2/12/2026 9:41:00 AM	Non-Potable Water	Radium-226 (903.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-228 (904.0)		2/19/2026 11:41:00 AM	2/27/2026 12:43:09 PM
26021092-016A	26020092-016	2/11/2026 12:41:00 PM		Radium-226 (903.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-228 (904.0)		2/19/2026 11:41:00 AM	2/27/2026 12:43:09 PM
26021092-017A	26020092-017	2/11/2026 10:32:00 AM		Radium-226 (903.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-228 (904.0)		2/19/2026 11:41:00 AM	2/27/2026 12:43:09 PM
26021092-018A	26020092-018	2/11/2026 9:51:00 AM		Radium-226 (903.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-228 (904.0)		2/19/2026 11:41:00 AM	2/27/2026 12:43:09 PM
26021092-019A	26020092-019	2/11/2026 11:26:00 AM		Radium-226 (903.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-228 (904.0)		2/19/2026 11:41:00 AM	2/27/2026 12:43:09 PM
26021092-020A	26020092-020	2/11/2026 12:02:00 PM		Radium-226 (903.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-228 (904.0)		2/19/2026 11:41:00 AM	2/27/2026 12:43:09 PM
26021092-021A	26020092-021	2/11/2026 12:52:00 PM		Radium-226 (903.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-228 (904.0)		2/19/2026 11:41:00 AM	2/27/2026 12:43:09 PM
26021092-022A	26020092-022	2/12/2026 11:13:00 AM		Radium-226 (903.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 11:41:00 AM	3/2/2026 7:52:36 AM

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DATES REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26021092-022A	26020092-022	2/12/2026 11:13:00 AM	Non-Potable Water	Radium-228 (904.0)		2/19/2026 11:41:00 AM	2/27/2026 12:43:09 PM

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/12/2026 10:28:00 AM

Project: 26020092

Lab ID: 26021092-001

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.500	1	2/24/2026 10:44:47 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	2/24/2026 10:44:47 AM
Yield	1.00					1	2/24/2026 10:44:47 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.420	1	2/23/2026 12:19:42 PM
Yield	1.00					1	2/23/2026 12:19:42 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,
Collection Date: 2/12/2026 10:30:00 AM
Project: 26020092
Lab ID: 26021092-002
Matrix: NON-POTABLE WATER
Client Sample ID: 26020092-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)					**MBDRA226RA22**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.620	1	2/24/2026 10:44:47 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00	QDR	pCi/L	± 0.140	1	2/24/2026 10:44:47 AM
Yield	0.990					1	2/24/2026 10:44:47 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00	QDR	pCi/L	± 0.480	1	2/23/2026 12:19:42 PM
Yield	0.950					1	2/23/2026 12:19:42 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,
Project: 26020092
Lab ID: 26021092-003
Client Sample ID: 26020092-003

Collection Date: 2/12/2026 11:06:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.650	1	3/11/2026 7:43:21 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)				**E903.0**	**E903-904**		Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.100	1	2/27/2026 7:28:00 AM
Yield	0.950					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)				**E904.0**	**E903-904**		Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.550	1	3/9/2026 1:01:32 PM
Yield	0.670					1	3/9/2026 1:01:32 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/12/2026 10:15:00 AM

Project: 26020092

Lab ID: 26021092-004

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **TAL**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.760	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	2/27/2026 7:28:00 AM
Yield	1.00					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	1.12	1.00		pCi/L	± 0.680	1	2/26/2026 1:46:00 PM
Yield	1.00					1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 2:21:00 PM

Project: 26020092

Lab ID: 26021092-005

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **TAL**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.770	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	2/27/2026 7:28:00 AM
Yield	0.990					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.690	1	2/26/2026 1:46:00 PM
Yield	1.00					1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 1:44:00 PM

Project: 26020092

Lab ID: 26021092-006

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **TAL**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.700	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	2/27/2026 7:28:00 AM
Yield	1.00					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.620	1	2/26/2026 1:46:00 PM
Yield	1.00					1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/12/2026 9:47:00 AM

Project: 26020092

Lab ID: 26021092-007

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **TAL**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.810	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	2/27/2026 7:28:00 AM
Yield	1.00					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	1.55	1.00		pCi/L	± 0.740	1	2/26/2026 1:46:00 PM
Yield	1.00					1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 12:37:00 PM

Project: 26020092

Lab ID: 26021092-008

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-008

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **TAL**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.700	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	2/27/2026 7:28:00 AM
Yield	1.00					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.620	1	2/26/2026 1:46:00 PM
Yield	1.00					1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/12/2026 11:28:00 AM

Project: 26020092

Lab ID: 26021092-009

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **TAL**
Radium-226/Radium-228 Combined	2.25	2.00		pCi/L	± 0.990	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	1.00	1.00		pCi/L	± 0.160	1	2/27/2026 7:28:00 AM
Yield	1.00					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	1.25	1.00		pCi/L	± 0.830	1	2/26/2026 1:46:00 PM
Yield	1.00					1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 10:32:00 AM

Project: 26020092

Lab ID: 26021092-010

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-010

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **TAL**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 1.03	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.120	1	2/27/2026 7:28:00 AM
Yield	0.960					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	1.22	1.00		pCi/L	± 0.910	1	2/26/2026 1:46:00 PM
Yield	0.850					1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

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WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/12/2026 10:53:00 AM

Project: 26020092

Lab ID: 26021092-011

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)					**MBDRA226RA22**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228 Combined	2.99	2.00		pCi/L	± 0.750	1	3/11/2026 7:43:21 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.170	1	2/27/2026 7:28:00 AM
Yield	0.890					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	2.01	1.00		pCi/L	± 0.580	1	3/9/2026 1:01:32 PM
Yield	1.00					1	3/9/2026 1:01:32 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,
Project: 26020092
Lab ID: 26021092-012
Client Sample ID: 26020092-012

Collection Date: 2/11/2026 9:54:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **TAL**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.870	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	2/27/2026 7:28:00 AM
Yield	0.950					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	1.42	1.00		pCi/L	± 0.800	1	2/26/2026 1:46:00 PM
Yield	1.00					1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,
Project: 26020092
Lab ID: 26021092-013
Client Sample ID: 26020092-013

Collection Date: 2/11/2026 11:11:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **TAL**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.630	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	2/27/2026 7:28:00 AM
Yield	1.00					1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.560	1	2/26/2026 1:46:00 PM
Yield	1.00					1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 11:51:00 AM

Project: 26020092

Lab ID: 26021092-014

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-014

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)					**MBDRA226RA22**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.430	1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	3/2/2026 7:52:36 AM
Yield	0.880					1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.350	1	2/27/2026 12:43:09 PM
Yield	0.860					1	2/27/2026 12:43:09 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/12/2026 9:41:00 AM

Project: 26020092

Lab ID: 26021092-015

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.650	1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.100	1	3/2/2026 7:52:36 AM
Yield	0.910					1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	1.10	1.00		pCi/L	± 0.550	1	2/27/2026 12:43:09 PM
Yield	0.900					1	2/27/2026 12:43:09 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 12:41:00 PM

Project: 26020092

Lab ID: 26021092-016

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-016

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.370	1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	3/2/2026 7:52:36 AM
Yield	0.980					1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.310	1	2/27/2026 12:43:09 PM
Yield	0.920					1	2/27/2026 12:43:09 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,
Collection Date: 2/11/2026 10:32:00 AM
Project: 26020092
Lab ID: 26021092-017
Matrix: NON-POTABLE WATER
Client Sample ID: 26020092-017

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)					**MBDRA226RA22**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.500	1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.110	1	3/2/2026 7:52:36 AM
Yield	0.980					1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.390	1	2/27/2026 12:43:09 PM
Yield	0.930					1	2/27/2026 12:43:09 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 9:51:00 AM

Project: 26020092

Lab ID: 26021092-018

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-018

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.450	1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	3/2/2026 7:52:36 AM
Yield	0.980					1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.360	1	2/27/2026 12:43:09 PM
Yield	0.960					1	2/27/2026 12:43:09 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 11:26:00 AM

Project: 26020092

Lab ID: 26021092-019

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-019

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.630	1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	3/2/2026 7:52:36 AM
Yield	0.890					1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.540	1	2/27/2026 12:43:09 PM
Yield	0.840					1	2/27/2026 12:43:09 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 12:02:00 PM

Project: 26020092

Lab ID: 26021092-020

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-020

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.630	1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	1.13	1.00		pCi/L	± 0.150	1	3/2/2026 7:52:36 AM
Yield	1.00					1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.480	1	2/27/2026 12:43:09 PM
Yield	0.980					1	2/27/2026 12:43:09 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
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Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,

Collection Date: 2/11/2026 12:52:00 PM

Project: 26020092

Lab ID: 26021092-021

Matrix: NON-POTABLE WATER

Client Sample ID: 26020092-021

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.520	1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	3/2/2026 7:52:36 AM
Yield	0.930					1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.440	1	2/27/2026 12:43:09 PM
Yield	0.900					1	2/27/2026 12:43:09 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **26021092**

Date Reported: **3/26/2026**

CLIENT: TEKLAB Inc,
Project: 26020092
Lab ID: 26021092-022
Client Sample ID: 26020092-022

Collection Date: 2/12/2026 11:13:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)					**MBDRA226RA22**	**E903-904**	Analyst: **KM**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.520	1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **KM**
Radium-226	ND	1.00		pCi/L	± 0.110	1	3/2/2026 7:52:36 AM
Yield	0.990					1	3/2/2026 7:52:36 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **KM**
Radium-228	ND	1.00		pCi/L	± 0.410	1	2/27/2026 12:43:09 PM
Yield	0.960					1	2/27/2026 12:43:09 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26021092**
26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93281**

Sample ID: **26021234-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **230095**
Client ID: **BatchQC** Batch ID: **93281** TestNo: **E904.0** **E903-904** Analysis Date: **2/27/2026** SeqNo: **6067708**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			0.9700	3.05		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93281**

Sample ID: **MB-93281** SampType: **MBLK** TestCode: **RADIUM-228_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **230095**
Client ID: **BatchQC** Batch ID: **93281** TestNo: **E904.0** **E903-904** Analysis Date: **2/27/2026** SeqNo: **6067683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.920			0	0						

Sample ID: **LCS-93281** SampType: **LCS** TestCode: **RADIUM-228_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **230095**
Client ID: **BatchQC** Batch ID: **93281** TestNo: **E904.0** **E903-904** Analysis Date: **2/27/2026** SeqNo: **6067684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.89	1.00	5.000	0	97.8	50	130				QLR
Yield	0.970			0	0						

Sample ID: **LCSD-93281** SampType: **LCSD** TestCode: **RADIUM-228_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **230095**
Client ID: **BatchQC** Batch ID: **93281** TestNo: **E904.0** **E903-904** Analysis Date: **2/27/2026** SeqNo: **6067685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.00	1.00	5.000	0	60.0	50	130	4.890	47.9	20	R
Yield	0.880			0	0			0.9700	9.73		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93281**

Sample ID: **26021177-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **230095**
Client ID: **BatchQC** Batch ID: **93281** TestNo: **E904.0** **E903-904** Analysis Date: **2/27/2026** SeqNo: **6067706**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.970			0	0			0.9600	1.04		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93281**

Sample ID: **26021234-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **230114**
Client ID: **BatchQC** Batch ID: **93281** TestNo: **E903.0** **E903-904** Analysis Date: **3/2/2026** SeqNo: **6068141**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.990							0.9700	2.04	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26021092**
26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93281**

Sample ID: **MB-93281**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **230114**
Client ID: **BatchQC**	Batch ID: **93281**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/2/2026**	SeqNo: **6068123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	0.920										

Sample ID: **LCS-93281**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **230114**
Client ID: **BatchQC**	Batch ID: **93281**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/2/2026**	SeqNo: **6068124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.58	1.00	5.000	0	91.6	70	130				

Sample ID: **LCSD-93281**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **230114**
Client ID: **BatchQC**	Batch ID: **93281**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/2/2026**	SeqNo: **6068125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.86	1.00	5.000	0	97.2	70	130	4.580	5.93	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93295**

Sample ID: **MB-93295** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **229951**
Client ID: **BatchQC** Batch ID: **93295** TestNo: **E904.0** **E903-904** Analysis Date: **2/26/2026** SeqNo: **6065009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-93295** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **229951**
Client ID: **BatchQC** Batch ID: **93295** TestNo: **E904.0** **E903-904** Analysis Date: **2/26/2026** SeqNo: **6065010**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.83	1.00	5.000	0	56.6	50	130				QLR
Yield	0.810			0	0						

Sample ID: **LCSD-93295** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **229951**
Client ID: **BatchQC** Batch ID: **93295** TestNo: **E904.0** **E903-904** Analysis Date: **2/26/2026** SeqNo: **6065011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.69	1.00	5.000	0	73.8	50	130	2.830	26.4	20	R
Yield	1.00			0	0			0.8100	21.0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93295**

Sample ID: **26021092-004ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **229951**
Client ID: **26020092-004** Batch ID: **93295** TestNo: **E904.0** **E903-904** Analysis Date: **2/26/2026** SeqNo: **6065027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.16	1.00		0	0			1.120	3.51	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93295**

Sample ID: **MB-93295**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229968**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/27/2026**	SeqNo: **6065175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-93295**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229968**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/27/2026**	SeqNo: **6065176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.58	1.00	5.000	0	91.6	70	130				

Sample ID: **LCSD-93295**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229968**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/27/2026**	SeqNo: **6065177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.12	1.00	5.000	0	82.4	70	130	4.580	10.6	20	

Sample ID: **26021092-003ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229968**
Client ID: **26020092-003**	Batch ID: **93295**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/27/2026**	SeqNo: **6065191**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26021092**
26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93295**

Sample ID: **26021092-003ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **229968**
Client ID: **26020092-003** Batch ID: **93295** TestNo: **E903.0** **E903-904** Analysis Date: **2/27/2026** SeqNo: **6065191**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.980							0.9500	3.11	0	

Sample ID: **26021092-004ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **229968**
Client ID: **26020092-004** Batch ID: **93295** TestNo: **E903.0** **E903-904** Analysis Date: **2/27/2026** SeqNo: **6065193**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.990							1.000	1.01	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93324**

Sample ID: **MB-93324**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/18/2026**	RunNo: **229759**
Client ID: **BatchQC**	Batch ID: **93324**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/23/2026**	SeqNo: **6059860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.980			0	0						

Sample ID: **LCS-93324**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/18/2026**	RunNo: **229759**
Client ID: **BatchQC**	Batch ID: **93324**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/23/2026**	SeqNo: **6059861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.29	1.00	5.000	0	106	50	130				QLR
Yield	0.880			0	0						

Sample ID: **LCSD-93324**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/18/2026**	RunNo: **229759**
Client ID: **BatchQC**	Batch ID: **93324**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/23/2026**	SeqNo: **6059862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.52	1.00	5.000	0	70.4	50	130	5.290	40.2	20	R
Yield	0.990			0	0			0.8800	11.8		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93324**

Sample ID: **26021092-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/18/2026** RunNo: **229759**
Client ID: **26020092-001** Batch ID: **93324** TestNo: **E904.0** **E903-904** Analysis Date: **2/23/2026** SeqNo: **6059880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Sample ID: **26021092-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/18/2026** RunNo: **229759**
Client ID: **26020092-002** Batch ID: **93324** TestNo: **E904.0** **E903-904** Analysis Date: **2/23/2026** SeqNo: **6059882**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			0.9500	5.13		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93324**

Sample ID: **MB-93324**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/18/2026**	RunNo: **229764**
Client ID: **BatchQC**	Batch ID: **93324**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/24/2026**	SeqNo: **6059943**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-93324**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/18/2026**	RunNo: **229764**
Client ID: **BatchQC**	Batch ID: **93324**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/24/2026**	SeqNo: **6059944**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.70	1.00	5.000	0	114	70	130				

Sample ID: **LCSD-93324**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/18/2026**	RunNo: **229764**
Client ID: **BatchQC**	Batch ID: **93324**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/24/2026**	SeqNo: **6059945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.75	1.00	5.000	0	95.0	70	130	5.700	18.2	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26021092**
26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93324**

Sample ID: **26021092-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/18/2026** RunNo: **229764**
Client ID: **26020092-001** Batch ID: **93324** TestNo: **E903.0** **E903-904** Analysis Date: **2/24/2026** SeqNo: **6059955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.980							1.000	2.02	0	

Sample ID: **26021092-002ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/18/2026** RunNo: **229764**
Client ID: **26020092-002** Batch ID: **93324** TestNo: **E903.0** **E903-904** Analysis Date: **2/24/2026** SeqNo: **6059957**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	R
Yield	1.00							0.9900	1.01	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93324**

Sample ID: **26021092-001ADUP** SampType: **DUP** TestCode: **Ra-Combined** Units: **pCi/L** Prep Date: **2/18/2026** RunNo: **229764**
Client ID: **26020092-001** Batch ID: **93324** TestNo: **CmbdRa226R E903-904** Analysis Date: **2/24/2026** SeqNo: **6059960**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226/Radium-228 Combined	ND	2.00		0	0			0	0	20	

Sample ID: **26021092-002ADUP** SampType: **DUP** TestCode: **Ra-Combined** Units: **pCi/L** Prep Date: **2/18/2026** RunNo: **229764**
Client ID: **26020092-002** Batch ID: **93324** TestNo: **CmbdRa226R E903-904** Analysis Date: **2/24/2026** SeqNo: **6059962**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226/Radium-228 Combined	ND	2.00		0	0			0	0	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26021092**
26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93578**

Sample ID: **MB-93578**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/3/2026**	RunNo: **230877**
Client ID: **BatchQC**	Batch ID: **93578**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/9/2026**	SeqNo: **6086923**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-93578**	SampType: **LCS**	TestCode: **RADIUM-228_**	Units: **pCi/L**	Prep Date: **3/3/2026**	RunNo: **230877**
Client ID: **BatchQC**	Batch ID: **93578**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/9/2026**	SeqNo: **6086924**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.79	1.00	5.000	0	95.8	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-93578**	SampType: **LCSD**	TestCode: **RADIUM-228_**	Units: **pCi/L**	Prep Date: **3/3/2026**	RunNo: **230877**
Client ID: **BatchQC**	Batch ID: **93578**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/9/2026**	SeqNo: **6086925**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.57	1.00	5.000	0	71.4	50	130	4.790	29.2	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26021092**

26-Mar-26

Client: TEKLAB Inc,
Project: 26020092 **BatchID:** **93578**

Sample ID: **26021917-010ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/3/2026** RunNo: **230877**
Client ID: **BatchQC** Batch ID: **93578** TestNo: **E904.0** **E903-904** Analysis Date: **3/9/2026** SeqNo: **6086946**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.41	1.00		0	0			0.6900	68.6	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **26021917-011ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/3/2026** RunNo: **230877**
Client ID: **BatchQC** Batch ID: **93578** TestNo: **E904.0** **E903-904** Analysis Date: **3/9/2026** SeqNo: **6086949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.17	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg ___ of ___

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

26021092

Are the samples chilled? YES ☑ NO ☐ With: ☑ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: | Sampler: teklab employee | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
State of Sample Origin = IL
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.

Project# 26020092

Contact: Shelly Hennessy | Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 40450 | Phone: (618) 344-1004 x1024

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Radium 226	Radium 228	CPM
pH<2,2,2	26020092-001	2/12/26 1028	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	55.50,40
pH<2,2,2	26020092-002	2/12/26 1030	☐	☐	☐	☐	☐	Groundwater	✔	✔	✔	30,30,32
pH<2,2,2	26020092-003	2/12/26 1106	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	24,26,22
pH<2,2,2	26020092-004	2/12/26 1015	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	32,34,30
pH<2,2,2	26020092-005	2/11/26 1421	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	42,40,44
pH<2,2,2	26020092-006	2/11/26 1344	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	42,36,38
pH<2,2,2	26020092-007	2/12/26 947	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	42,42,44
pH<2,2,2	26020092-008	2/11/26 1237	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	46,40,44
pH<2,2,2	26020092-009	2/12/26 1128	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	50,52,46
pH<2,2,2	26020092-010	2/11/26 1032	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	50,46,42
pH<2,2,2	26020092-011	2/12/26 1053	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	52,56,58

*Relinquished By	Date/Time	Received By	Date/Time
	2/13/26 1000	2/16/26	C.S. intact
		Fax 1300	2/13
		21.8+6.0=21.8	

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevB
1/12/2026

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Are the samples chilled? YES ☑ NO ☐ With: ☑ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: | Sampler: teklab employee | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
State of Sample Origin = IL
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.

Project# 26020092

Contact: Shelly Hennessy | Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 40450 | Phone: (618) 344-1004 x 1024

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Radium 226	Radium 228	CDM:
pHc2,2,2	26020092-012	2/11/26 954	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	30, 38, 32
pHc2,2,2	26020092-013	2/11/26 1111	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	36, 28, 30
pHc2,2,2	26020092-014	2/11/26 1151	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	40, 40, 46
pHc2,2,2	26020092-015	2/12/26 941	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	28, 26, 24
pHc2,2,2	26020092-016	2/11/26 1241	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	26, 32, 30
pHc2,2,2	26020092-017	2/11/26 1032	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	28, 30, 40
pHc2,2,2	26020092-018	2/11/26 9.51	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	30, 30, 32
pHc2,2,2	26020092-019	2/11/26 1126	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	22, 24, 20
pHc2,2,2	26020092-020	2/11/26 1202	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	20, 28, 26
pHc2,2,2	26020092-021	2/11/26 1252	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	30, 36, 38
pHc2,2,2	26020092-022	2/12/26 1113	☐	☑	☐	☐	☐	Groundwater	✔	✔	✔	40, 38, 38

*Relinquished By	Date/Time	Received By	Date/Time
	2/13/26 1700		

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state, federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevB
1/12/2026

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **26021092** RcptNo: **1**

Logged by:	**Spencer M. Hartwell**	**2/16/2026 1:00:00 PM**	Spencer M. Hartwell
Completed By:	**Spencer M. Hartwell**	**2/16/2026 3:10:01 PM**	Spencer M. Hartwell
Reviewed By:	**Jennifer Woolf**	**2/23/2026 2:16:09 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: 2/13/2026 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.8	Good	Yes		2/13/2026	

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 26020092
Monitoring Point: RW-3
Sample ID: 001
Date (s): 2/12/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 40 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/12/26 10:08 AM
Static Water Level: 12.85 feet below TOC
Total Depth: 44.01 feet below TOC
Water Column: 31.16 feet

Purging Activities

Purged By: AL Purge Date: 2/12/2026
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 31.16 ft. x 0.022 = 0.69 L x 3 Vol. = 2.07 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: Moderate Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:08	0.0	200	purge start time						
10:19	2.2	↓	7.19	791.20	12.51	0.76	-127.40	3.86	
10:22	2.8		7.18	792.00	12.55	0.68	-131.80	2.85	
10:25	3.4		7.18	792.60	12.56	0.62	-134.30	3.10	
10:28	4.0		7.18	792.60	12.59	0.57	-135.90	5.43	

Sampling Activities

Sampled By: DN Sample Date/Time: 2/12/2026 10:28
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.18 pH 792.60 Spec. Cond. 12.59 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 14.31 feet below TOC Drawdown: 1.46 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 218076

Form Completed By: A Nieters **Date:** 2/12/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-1
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	26020092	**Date (s):**	2/12/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 40 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

			Locks	Yes	No
Well Pad	Good		Protective Casing		X
Casing	Good		Well		X
Protective Casing	Good				
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 2/12/26 10:05 AM

Static Water Level: 11.05 feet below TOC

Total Depth: 31.08 feet below TOC

Water Column: 20.03 feet

Purging Activities

Purged By: DC Purge Date: 2/12/2026

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 20.03 ft. x 0.022 = 0.44 L x 3 Vol. = 1.32 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:05	0.0	160	purge start time						
10:18	2.1	↓	6.67	1,669.20	13.03	0.85	-84.00	13.70	
10:21	2.6		6.67	1,688.60	13.02	0.78	-87.60	10.12	
10:24	3.0		6.67	1,718.90	13.02	0.73	-90.00	8.51	
10:27	3.5		6.67	1,738.80	13.03	0.70	-91.60	5.20	
10:30	4.0		6.67	1,752.80	13.01	0.66	-92.80	4.25	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/12/2026 10:30

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.67 pH 1,752.80 Spec. Cond. 13.01 Temp

Field Filtered: No Filter Type:

Water Level: 11.85 feet below TOC Drawdown: 0.80 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Brett Gillihan **Date:** 2/12/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-2
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	26020092	**Date (s):**	2/12/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 41 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☐ None ☑ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/12/26 10:40 AM

Static Water Level: 8.93 feet below TOC

Total Depth: 21.33 feet below TOC

Water Column: 12.40 feet

Purging Activities

Purged By: DC Purge Date: 2/12/2026

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 12.4 ft. x 0.022 = 0.27 L x 3 Vol. = 0.81 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:40	0.0	154	purge start time						
10:54	2.2	↓	6.60	1,298.20	12.22	0.94	7.10	38.55	
10:57	2.6		6.60	1,299.80	12.17	0.87	10.00	25.86	
11:00	3.1		6.60	1,299.30	12.13	0.83	12.20	18.90	
11:03	3.5		6.59	1,300.80	12.23	0.79	13.80	13.49	
11:06	4.0		6.59	1,301.60	12.27	0.76	15.30	8.56	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/12/2026 11:06

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.59 pH 1,301.60 Spec. Cond. 12.27 Temp

Field Filtered: No Filter Type:

Water Level: 9.59 feet below TOC Drawdown: 0.66 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Brett Gillihan **Date:** 2/12/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-3
Project Location:	Springfield, IL	**Sample ID:**	004
W.O. Number (s):	26020092	**Date (s):**	2/12/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 41 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

			Locks	Yes	No
Well Pad	Good		Protective Casing		X
Casing	Good		Well		X
Protective Casing	Good				
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 2/12/26 9:56 AM

Static Water Level: 9.98 feet below TOC

Total Depth: 20.80 feet below TOC

Water Column: 10.82 feet

Purging Activities

Purged By: JC Purge Date: 2/12/2026

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 10.82 ft. x 0.022 = 0.24 L x 3 Vol. = 0.72 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: lt brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:57	0.0	222	purge start time						
10:03	1.3	↓	6.67	1,325.00	11.98	3.89	-105.40	35.90	
10:06	2.0		6.63	1,331.40	12.17	2.85	-101.40	40.29	
10:09	2.7		6.62	1,326.60	12.17	2.36	-100.50	33.36	
10:12	3.3		6.62	1,321.30	12.73	2.22	-98.30	35.50	
10:15	4.0		6.62	1,315.90	12.06	2.29	-94.60	36.37	

Sampling Activities

Sampled By: JC Sample Date/Time: 2/12/2026 10:15

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.62 pH 1,315.90 Spec. Cond. 12.06 Temp

Field Filtered: No Filter Type:

Water Level: 10.36 feet below TOC Drawdown: 0.38 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp **Date:** 2/12/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-4
Project Location:	Springfield, IL	**Sample ID:**	005
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 46 °F — Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/11/26 1:59 PM

Static Water Level: 12.94 feet below TOC

Total Depth: 60.41 feet below TOC

Water Column: 47.47 feet

Purging Activities

Purged By: JC — Purge Date: 2/11/2026

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 47.47 ft. x 0.022 = 1.04 L x 3 Vol. = 3.12 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
14:00	0.0	238	purge start time						
14:06	1.4	↓	7.33	672.80	16.02	5.47	43.50	2.35	
14:09	2.1		7.31	673.40	15.98	4.86	46.00	2.24	
14:12	2.9		7.30	673.30	15.90	4.57	47.70	2.63	
14:15	3.6		7.29	673.50	15.98	4.39	49.20	2.99	
14:18	4.3		7.28	673.70	15.97	4.25	50.80	3.97	
14:21	5.0		7.27	674.10	15.95	4.16	52.00	3.04	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/11/2026 14:21

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 7.27 pH — 674.10 Spec. Cond. — 15.95 Temp

Field Filtered: No — Filter Type:

Water Level: 12.94 feet below TOC — Drawdown: 0.00 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp — **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-5
Project Location:	Springfield, IL	**Sample ID:**	006
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 46 °F — Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/11/26 1:04 PM

Static Water Level: 19.22 feet below TOC

Total Depth: 31.27 feet below TOC

Water Column: 12.05 feet

Purging Activities

Purged By: JC — Purge Date: 2/11/2026

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 12.05 ft. x 0.022 = 0.27 L x 3 Vol. = 0.81 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 7.50 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:05	0.0	192	purge start time						
13:11	1.2	↓	6.92	717.20	13.52	4.53	20.50	10.39	
13:14	1.7		6.89	733.50	12.93	3.76	24.50	7.54	
13:17	2.3		6.87	736.00	12.69	3.11	26.90	7.13	
13:20	2.9		6.86	735.70	12.77	2.67	29.10	5.36	
13:23	3.5		6.86	736.90	12.67	2.41	31.00	4.05	
13:26	4.0		6.86	738.00	12.59	2.22	32.90	3.64	
13:29	4.6		6.86	731.90	12.86	2.06	34.20	3.17	
13:32	5.2		6.86	739.70	13.44	1.94	34.70	2.26	
13:35	5.8		6.86	740.40	13.83	1.85	35.30	2.14	
13:38	6.3		6.87	741.80	14.43	1.78	35.70	1.61	
13:41	6.9		6.87	743.40	14.73	1.72	36.30	1.35	
13:44	7.5		6.87	745.10	14.81	1.68	36.90	0.77	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/11/2026 13:44

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 6.87 pH — 745.10 Spec. Cond. — 14.81 Temp

Field Filtered: No — Filter Type:

Water Level: 20.09 feet below TOC — Drawdown: 0.87 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp — **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-6
Project Location:	Springfield, IL	**Sample ID:**	007
W.O. Number (s):	26020092	**Date (s):**	2/12/2026

Field Team Members

Name: Allison Lampe — Affiliation: TekLab, Inc.

Name: Drew Nieters — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 40 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/12/26 9:24 AM

Static Water Level: 11.29 feet below TOC

Total Depth: 39.62 feet below TOC

Water Column: 28.33 feet

Purging Activities

Purged By: AL — Purge Date: 2/12/2026

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 28.33 ft. x 0.022 = 0.62 L x 3 Vol. = 1.86 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:24	0.0	130	purge start time						
9:38	1.8	↓	7.11	785.10	9.45	3.14	-37.60	10.19	
9:41	2.2		7.11	783.20	8.85	3.28	-44.50	19.78	
9:44	2.6		7.11	779.40	8.51	3.58	-44.40	23.97	
9:47	3.0		7.11	776.90	8.37	3.99	-42.20	23.75	

Sampling Activities

Sampled By: DN — Sample Date/Time: 2/12/2026 9:47

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 7.11 pH — 776.90 Spec. Cond. — 8.37 Temp

Field Filtered: No — Filter Type:

Water Level: 13.13 feet below TOC — Drawdown: 1.84 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 218076

Form Completed By: A Nieters — **Date:** 2/12/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-7
Project Location:	Springfield, IL	**Sample ID:**	008
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 45 °F — Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 12:12 PM

Static Water Level: 14.14 feet below TOC

Total Depth: 42.52 feet below TOC

Water Column: 28.38 feet

Purging Activities

Purged By: JC — Purge Date: 2/11/2026

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 28.38 ft. x 0.022 = 0.62 L x 3 Vol. = 1.86 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:13	0.0	208	purge start time						
12:19	1.3	↓	7.19	796.00	12.86	3.80	-63.30	9.62	
12:22	1.9		7.19	798.10	12.90	2.67	-68.50	12.73	
12:25	2.5		7.15	800.50	12.89	2.15	-77.00	10.93	
12:28	3.1		7.14	801.40	12.91	1.84	-84.40	10.09	
12:31	3.8		7.14	802.60	12.89	1.66	-86.20	7.57	
12:34	4.4		7.14	804.70	12.92	1.52	-87.20	7.12	
12:37	5.0		7.13	807.00	12.91	1.44	-88.00	7.75	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/11/2026 12:37

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 7.13 pH — 807.00 Spec. Cond. — 12.91 Temp

Field Filtered: No — Filter Type:

Water Level: 18.62 feet below TOC — Drawdown: 4.48 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp — **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-8
Project Location:	Springfield, IL	**Sample ID:**	009
W.O. Number (s):	26020092	**Date (s):**	2/12/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 41 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/12/26 11:05 AM

Static Water Level: 8.76 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 30.84 feet

Purging Activities

Purged By: JC Purge Date: 2/12/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 30.84 ft. x 0.022 = 0.68 L x 3 Vol. = 2.04 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:06	0.0	227	purge start time						
11:13	1.6	↓	6.95	856.20	12.72	2.72	-90.00	8.85	
11:16	2.3		6.94	857.30	12.79	2.15	-102.30	6.38	
11:19	3.0		6.93	857.30	12.76	1.85	-108.40	5.05	
11:22	3.6		6.93	856.30	12.71	1.66	-112.10	4.06	
11:25	4.3		6.93	855.10	12.69	1.53	-114.60	4.52	
11:28	5.0		6.93	855.70	12.76	1.43	-116.20	4.42	

Sampling Activities

Sampled By: JC Sample Date/Time: 2/12/2026 11:28

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.93 pH 855.70 Spec. Cond. 12.76 Temp

Field Filtered: No Filter Type:

Water Level: 9.71 feet below TOC Drawdown: 0.95 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp **Date:** 2/12/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-9
Project Location:	Springfield, IL	**Sample ID:**	010
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 37 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 10:02 AM

Static Water Level: 14.09 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 25.51 feet

Purging Activities

Purged By: JC Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 25.51 ft. x 0.022 = 0.56 L x 3 Vol. = 1.68 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.50 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:03	0.0	224	purge start time						
10:08	1.1	↓	6.65	1,003.30	12.74	4.55	-94.20	21.01	
10:11	1.8		6.67	1,002.10	12.94	3.24	-100.90	21.17	
10:14	2.5		6.68	1,002.90	13.14	2.63	-104.30	20.21	
10:17	3.1		6.69	1,000.40	13.18	2.29	-105.90	18.71	
10:20	3.8		6.69	999.60	13.17	2.07	-107.20	16.09	
10:23	4.5		6.69	998.60	13.24	1.91	-108.20	15.00	
10:26	5.2		6.70	998.40	13.27	1.79	-108.70	14.66	
10:29	5.8		6.70	999.00	13.29	1.70	-109.00	14.01	
10:32	6.5		6.70	997.70	13.56	1.62	-109.40	12.76	

Sampling Activities

Sampled By: JC Sample Date/Time: 2/11/2026 10:32

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.70 pH 997.70 Spec. Cond. 13.56 Temp

Field Filtered: No Filter Type:

Water Level: 16.19 feet below TOC Drawdown: 2.10 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP10
Project Location:	Springfield, IL	**Sample ID:**	011
W.O. Number (s):	26020092	**Date (s):**	2/12/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 41 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/12/26 10:27 AM

Static Water Level: 7.39 feet below TOC

Total Depth: 38.07 feet below TOC

Water Column: 30.68 feet

Purging Activities

Purged By: JC — Purge Date: 2/12/2026

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 30.68 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:28	0.0	240	purge start time						
10:32	1.0	↓	6.77	1,091.40	12.18	4.23	-59.20	4.08	
10:35	1.7		6.73	1,089.80	12.15	2.91	-74.30	2.50	
10:38	2.4		6.72	1,085.60	11.81	2.47	-80.80	2.20	
10:41	3.1		6.72	1,081.10	11.72	2.22	-84.40	2.67	
10:44	3.8		6.72	1,080.40	11.70	2.04	-86.90	3.13	
10:47	4.6		6.71	1,077.50	11.68	1.89	-88.50	2.37	
10:50	5.3		6.71	1,077.00	11.74	1.77	-89.90	2.33	
10:53	6.0		6.71	1,075.40	11.74	1.68	-90.90	1.73	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/12/2026 10:53

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.71 pH — 1,075.40 Spec. Cond. — 11.74 Temp

Field Filtered: No — Filter Type:

Water Level: 7.91 feet below TOC — Drawdown: 0.52 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp — **Date:** 2/12/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP11
Project Location:	Springfield, IL	**Sample ID:**	012
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 35 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 9:33 AM

Static Water Level: 15.42 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 7.53 feet

Purging Activities

Purged By: DC Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.53 ft. x 0.022 = 0.17 L x 3 Vol. = 0.51 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:33	0.0	190	purge start time						
9:42	1.7	↓	6.49	1,098.20	9.43	2.31	-14.60	17.82	
9:45	2.3		6.48	1,069.80	9.98	1.87	4.30	14.34	
9:48	2.9		6.49	1,076.70	9.70	1.74	12.20	15.05	
9:51	3.4		6.49	1,067.90	9.94	1.60	19.50	10.41	
9:54	4.0		6.49	1,066.10	10.21	1.47	20.60	9.15	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/11/2026 9:54

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.49 pH 1,066.10 Spec. Cond. 10.21 Temp

Field Filtered: No Filter Type:

Water Level: 16.31 feet below TOC Drawdown: 0.89 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Brett Gillihan **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP12
Project Location:	Springfield, IL	**Sample ID:**	013
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 41 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 10:53 AM

Static Water Level: 18.13 feet below TOC

Total Depth: 30.40 feet below TOC

Water Column: 12.27 feet

Purging Activities

Purged By: DC Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 12.27 ft. x 0.022 = 0.27 L x 3 Vol. = 0.81 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:53	0.0	222	purge start time						
10:59	1.3	↓	6.54	1,467.70	11.58	2.04	-59.40	15.38	
11:02	2.0		6.52	1,463.80	11.53	1.62	-55.00	15.55	
11:05	2.7		6.51	1,466.00	11.64	1.36	-53.70	15.06	
11:08	3.3		6.51	1,469.60	11.42	1.23	-52.70	17.26	
11:11	4.0		6.51	1,471.00	11.49	1.15	-54.30	25.36	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/11/2026 11:11

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.51 pH 1,471.00 Spec. Cond. 11.49 Temp

Field Filtered: No Filter Type:

Water Level: 18.83 feet below TOC Drawdown: 0.70 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Brett Gillihan **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP13
Project Location:	Springfield, IL	**Sample ID:**	014
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 43 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 11:31 AM

Static Water Level: 19.77 feet below TOC

Total Depth: 31.00 feet below TOC

Water Column: 11.23 feet

Purging Activities

Purged By: DC Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 11.23 ft. x 0.022 = 0.25 L x 3 Vol. = 0.75 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:31	0.0	200	purge start time						
11:39	1.6	↓	6.67	823.60	11.19	1.59	-81.90	26.07	
11:42	2.2		6.68	820.60	11.30	1.39	-88.30	29.54	
11:45	2.8		6.67	818.70	11.05	1.27	-89.00	37.55	
11:48	3.4		6.67	822.00	10.87	1.20	-90.40	32.58	
11:51	4.0		6.67	821.00	10.82	1.14	-92.10	29.89	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/11/2026 11:51

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.67 pH 821.00 Spec. Cond. 10.82 Temp

Field Filtered: No Filter Type:

Water Level: 20.02 feet below TOC Drawdown: 0.25 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Brett Gillihan **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP14
Project Location:	Springfield, IL	**Sample ID:**	015
W.O. Number (s):	26020092	**Date (s):**	2/12/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 38 °F — Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/12/26 9:16 AM

Static Water Level: 3.49 feet below TOC

Total Depth: 31.20 feet below TOC

Water Column: 27.71 feet

Purging Activities

Purged By: JC — Purge Date: 2/12/2026

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 27.71 ft. x 0.022 = 0.61 L x 3 Vol. = 1.83 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:17	0.0	208	purge start time						
9:23	1.3	↓	6.88	1,937.70	10.79	4.42	-44.00	2.43	
9:26	1.9		6.87	1,924.60	10.90	3.29	-44.20	94.31	
9:29	2.5		6.87	1,914.00	11.05	2.71	-45.00	24.70	
9:32	3.1		6.88	1,911.00	11.09	2.34	-44.80	2.45	
9:35	3.8		6.88	1,905.90	11.23	2.08	-45.00	1.02	
9:38	4.4		6.89	1,909.40	11.11	1.92	-45.10	1.32	
9:41	5.0		6.90	1,896.60	10.30	1.95	-44.10	0.94	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/12/2026 9:41

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.90 pH — 1,896.60 Spec. Cond. — 10.30 Temp

Field Filtered: No — Filter Type:

Water Level: 3.55 feet below TOC — Drawdown: 0.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp — **Date:** 2/12/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-01
Project Location:	Springfield, IL	**Sample ID:**	016
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 45 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 12:12 PM

Static Water Level: 14.75 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 8.20 feet

Purging Activities

Purged By: DC Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 8.2 ft. x 0.022 = 0.18 L x 3 Vol. = 0.54 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:12	0.0	138	purge start time						
12:29	2.3	↓	6.54	1,527.00	11.14	1.75	34.10	33.23	
12:32	2.8		6.54	1,526.50	11.20	1.61	36.80	29.49	
12:35	3.2		6.54	1,530.40	11.15	1.54	38.70	28.28	
12:38	3.6		6.54	1,529.90	11.35	1.56	40.40	25.27	
12:41	4.0		6.54	1,529.90	11.48	1.52	42.30	21.22	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/11/2026 12:41

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.54 pH 1,529.90 Spec. Cond. 11.48 Temp

Field Filtered: No Filter Type:

Water Level: 14.81 feet below TOC Drawdown: 0.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Brett Gillihan **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-02
Project Location:	Springfield, IL	**Sample ID:**	017
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 38 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 10:16 AM

Static Water Level: 27.31 feet below TOC

Total Depth: 34.44 feet below TOC

Water Column: 7.13 feet

Purging Activities

Purged By: DC Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.13 ft. x 0.022 = 0.16 L x 3 Vol. = 0.48 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: Slight Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:16	0.0	188	purge start time						
10:20	0.8	↓	6.53	2,037.20	10.88	2.68	-79.50	12.02	
10:23	1.3		6.51	2,074.40	10.62	1.88	-78.20	5.83	
10:26	1.9		6.51	2,073.50	10.75	1.57	-79.50	5.45	
10:29	2.4		6.51	2,067.40	10.73	1.43	-80.60	5.15	
10:32	3.0		6.51	2,060.00	10.73	1.35	-81.10	5.34	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/11/2026 10:32

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.51 pH 2,060.00 Spec. Cond. 10.73 Temp

Field Filtered: No Filter Type:

Water Level: 27.84 feet below TOC Drawdown: 0.53 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Brett Gillihan **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-04
Project Location:	Springfield, IL	**Sample ID:**	018
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 35 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/11/26 9:28 AM

Static Water Level: 20.39 feet below TOC

Total Depth: 27.42 feet below TOC

Water Column: 7.03 feet

Purging Activities

Purged By: JC Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.03 ft. x 0.022 = 0.15 L x 3 Vol. = 0.45 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:29	0.0	227	purge start time						
9:39	2.3	↓	6.71	871.70	11.51	4.15	-74.30	56.46	
9:42	3.0		6.63	763.10	11.39	3.67	-63.40	46.08	
9:45	3.6		6.48	598.80	11.27	3.57	-43.80	75.27	
9:48	4.3		6.39	542.50	11.42	3.55	-23.20	81.29	
9:51	5.0		6.36	529.90	11.54	3.49	-9.70	80.62	

Sampling Activities

Sampled By: JC Sample Date/Time: 2/11/2026 9:51

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.36 pH 529.90 Spec. Cond. 11.54 Temp

Field Filtered: No Filter Type:

Water Level: 20.92 feet below TOC Drawdown: 0.53 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-05
Project Location:	Springfield, IL	**Sample ID:**	019
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 40 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 10:48 AM

Static Water Level: 14.51 feet below TOC

Total Depth: 22.34 feet below TOC

Water Column: 7.83 feet

Purging Activities

Purged By: JC Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.83 ft. x 0.022 = 0.17 L x 3 Vol. = 0.51 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 8.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:49	0.0	216	purge start time						
10:56	1.5	↓	6.67	788.80	13.39	5.21	33.10	6.42	
10:59	2.2		6.66	789.10	13.27	4.83	41.80	10.61	
11:02	2.8		6.66	794.30	13.37	4.50	48.20	12.15	
11:05	3.5		6.66	801.40	13.52	4.19	52.30	10.92	
11:08	4.1		6.67	810.20	13.52	3.89	55.70	9.87	
11:11	4.8		6.67	816.10	13.26	3.72	58.50	9.57	
11:14	5.4		6.67	818.80	13.27	3.51	61.40	8.09	
11:17	6.1		6.68	817.50	13.46	3.35	64.00	7.25	
11:20	6.7		6.69	820.50	13.32	3.19	65.80	7.02	
11:23	7.4		6.68	814.50	13.15	3.10	67.90	7.68	
11:26	8.0		6.68	812.60	13.39	3.07	70.00	7.49	

Sampling Activities

Sampled By: JC Sample Date/Time: 2/11/2026 11:26

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.68 pH 812.60 Spec. Cond. 13.39 Temp

Field Filtered: No Filter Type:

Water Level: 16.40 feet below TOC Drawdown: 1.89 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-06
Project Location:	Springfield, IL	**Sample ID:**	020
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 43 °F — Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/11/26 11:39 AM

Static Water Level: 13.14 feet below TOC

Total Depth: 43.62 feet below TOC

Water Column: 30.48 feet

Purging Activities

Purged By: JC — Purge Date: 2/11/2026

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 30.48 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy — Odor: None — Color: slight

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:40	0.0	227	purge start time						
11:47	1.6	↓	6.78	863.20	12.72	2.97	-105.10	36.18	
11:50	2.3		6.78	863.70	12.84	2.35	-114.40	46.29	
11:53	3.0		6.77	863.90	12.84	2.01	-118.50	42.92	
11:56	3.6		6.78	862.70	12.89	1.78	-122.10	52.03	
11:59	4.3		6.78	863.60	12.89	1.63	-124.10	55.62	
12:02	5.0		6.78	861.70	12.89	1.51	-123.70	66.32	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/11/2026 12:02

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.78 pH — 861.70 Spec. Cond. — 12.89 Temp

Field Filtered: No — Filter Type:

Water Level: 13.29 feet below TOC — Drawdown: 0.15 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp — **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AW-1
Project Location:	Springfield, IL	**Sample ID:**	021
W.O. Number (s):	26020092	**Date (s):**	2/11/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 41 °F Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 12:29 PM

Static Water Level: 17.91 feet below TOC

Total Depth: 54.81 feet below TOC

Water Column: 36.90 feet

Purging Activities

Purged By: AL Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 36.9 ft. x 0.022 = 0.81 L x 3 Vol. = 2.43 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:29	0.0	130	purge start time						
12:40	1.4	↓	6.66	1,601.10	13.36	1.33	-96.30	2.21	
12:43	1.8		6.65	1,595.20	13.42	1.20	-97.20	1.52	
12:46	2.2		6.65	1,595.60	13.67	1.11	-98.00	1.30	
12:49	2.6		6.66	1,595.90	13.83	1.07	-98.90	0.79	
12:52	3.0		6.66	1,597.00	14.00	1.03	-99.90	0.49	

Sampling Activities

Sampled By: PY Sample Date/Time: 2/11/2026 12:52

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

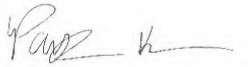
Sample Parameters: 6.66 pH 1,597.00 Spec. Cond. 14.00 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 19.97 feet below TOC Drawdown: 2.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 218076

Form Completed By:  **Date:** 2/11/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	G120
Project Location:	Springfield, IL	**Sample ID:**	022
W.O. Number (s):	26020092	**Date (s):**	2/12/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 40 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☐ None ☑ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/12/26 10:59 AM

Static Water Level: 19.60 feet below TOC

Total Depth: 50.37 feet below TOC

Water Column: 30.77 feet

Purging Activities

Purged By: AL Purge Date: 2/12/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 30.77 ft. x 0.022 = 0.68 L x 3 Vol. = 2.04 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: Moderate Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:55	0.0	167	purge start time						
11:04	1.5	↓	6.98	1,854.20	12.24	1.46	-29.70	7.64	
11:07	2.0		7.00	1,857.10	12.50	1.34	-37.50	6.23	
11:10	2.5		7.02	1,861.60	12.52	1.23	-45.30	5.83	
11:13	3.0		7.01	1,866.10	12.67	1.16	-62.20	6.61	

Sampling Activities

Sampled By: DN Sample Date/Time: 2/12/2026 11:13

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 7.01 pH 1,866.10 Spec. Cond. 12.67 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 19.69 feet below TOC Drawdown: 0.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 218076

Form Completed By: Allison Lampe **Date:** 2/12/2026

Site Samping Event: Ash Pond Monitoring Wells
LIMS Workorder: 26020092
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 1Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218076 Technician(s): A.Lampe Date: 2/12/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	127.00	2/11/26 8:47
7.0 Buffer	WC251017B	7.00	-42.10	2/11/26 8:51
10.0 Buffer	WC251017C	10.00	-209.10	2/11/26 8:54
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1412	2/11/26 8:57

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.23	2/11/26 9:05
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-AL	LCS	2/11/26 9:04	6.4	7.05	1,415	0.26		
CCV-1-AL	CCV	2/11/26 14:49	12.2	7.09	1,394	0.23		

Comments:

Field Meter ID: Pine 218076 Technician(s): A.Lampe Date: 2/12/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	124.40	2/12/26 8:57
7.0 Buffer	WC251017B	7.00	-44.60	2/12/26 8:59
10.0 Buffer	WC251017C	10.00	-208.20	2/12/26 9:02
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1412	2/12/26 9:06

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.72	2/12/26 9:11
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-AL	LCS	2/12/26 9:11	6.3	7.05	1,411	0.72		
CCV-2-AL	CCV	2/12/26 11:22	7.8	7.09	1,393	0.56		

Comments:

Site Samping Event: Ash Pond Monitoring Wells
LIMS Workorder: 26020092
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 1Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 217941 Technician(s): Brett Gillihan Date: 2/11/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	143.20	2/11/26 9:01
7.0 Buffer	WC251017B	7.00	0.00	2/11/26 8:56
10.0 Buffer	WC251017C	10.00	-196.30	2/11/26 9:05
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1412	2/11/26 9:08

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.23	2/11/26 9:15
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	2/11/26 9:17	7.8	7.01	1,422	0.28		
CCV-1-BG	CCV	2/11/26 14:45	9.3	7.01	1,426	0.29		

Comments:

Field Meter ID: Pine 217941 Technician(s): Brett Gillihan Date: 2/12/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	140.30	2/12/26 8:56
7.0 Buffer	WC251017B	7.00	-30.80	2/12/26 8:48
10.0 Buffer	WC251017C	10.02	-197.80	2/12/26 8:58
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1413	2/12/26 9:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.35	2/12/26 9:11
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	2/12/26 9:18	7.3	7.02	1,422	0.41		
CCV-2-BG	CCV	2/12/26 11:12	7.9	7.03	1,428	0.43		

Comments:

Site Samping Event: Ash Pond Monitoring Wells
LIMS Workorder: 26020092
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 1Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223344 Technician(s): justin colp Date: 2/11/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	141.90	2/11/26 8:45
7.0 Buffer	WC251017B	7.00	-26.80	2/11/26 8:42
10.0 Buffer	WC251017C	10.00	-192.10	2/11/26 8:48
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1412	2/11/26 8:55

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.42	2/11/26 8:56
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	2/11/26 8:58	15.6	7.02	1,407	0.4		
CCV-1-JC	CCV	2/11/26 14:25	16.3	7.04	1,366	0.49		

Comments:

Field Meter ID: Pine 223344 Technician(s): justin colp Date: 2/12/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	142.20	2/12/26 9:00
7.0 Buffer	WC251017B	7.00	-25.10	2/12/26 8:57
10.0 Buffer	WC251017C	10.00	-190.70	2/12/26 9:03
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1412	2/12/26 9:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.53	2/12/26 9:10
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	2/12/26 9:12	14.3	7.01	1,411	0.49		
CCV-2-JC	CCV	2/12/26 11:31	13.9	7.03	1,389	0.44		

Comments:

March 12, 2026

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100467
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 26020093

Dear Eric Staley:

TEKLAB, INC received 5 samples on 2/12/2026 1:15:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Work Order: 26020093
Client Project: FGDS Landfill
Report Date: 12-Mar-26

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	13
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 26020093

Client Project: FGDS Landfill **Report Date:** 12-Mar-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: City Water, Light & Power
Work Order: 26020093
Client Project: FGDS Landfill
Report Date: 12-Mar-26

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 26020093
Client Project: FGDS Landfill
Report Date: 12-Mar-26

Cooler Receipt Temp: 5.4 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Alliance Technical Group. See attached report for results.

Locations

Collinsville
Address 5445 Horseshoe Lake Road, Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville
Address 120 United Drive, Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield
Address 3920 Pintail Dr, Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City
Address 8421 Nieman Road, Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air
Address 120 United Drive, Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago
Address 1319 Butterfield Rd., Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power **Work Order:** 26020093

Client Project: FGDS Landfill **Report Date:** 12-Mar-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100467	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2026	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 26020093

Client Project: FGDS Landfill **Report Date:** 12-Mar-26

Lab ID: 26020093-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 9:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	02/11/2026 9:46	R379199
Depth to water	*	-5.00		**6.04**	ft	1	02/11/2026 9:46	R379199
Depth to water from measuring point	*	0		**8.84**	ft	1	02/11/2026 9:46	R379199
Elevation of groundwater surface	*	0		**537.96**	ft	1	02/11/2026 9:46	R379199
Measuring Point Elevation	*	0		**546.80**	ft	1	02/11/2026 9:46	R379199
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	02/11/2026 9:46	R379199
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.8**	NTU	1	02/11/2026 9:46	R379199
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**47.7**	°F	1	02/11/2026 9:46	R379199
SW-846 9040B								
pH, Field	*	1.00		**7.33**		1	02/11/2026 9:46	R379199
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1260**	µmhos/cm @25C	1	02/11/2026 9:46	R379199
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**834**	mg/L	1	02/18/2026 10:27	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 14:59	R379009
Chloride	NELAP	5.00		**109**	mg/L	10	02/13/2026 14:59	R379009
Sulfate	NELAP	10.0		**255**	mg/L	10	02/13/2026 14:59	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.148**	mg/L	1	02/14/2026 14:29	251742
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/14/2026 14:29	251742
Boron	NELAP	0.0200		**0.135**	mg/L	1	02/14/2026 14:29	251742
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/14/2026 14:29	251742
Calcium	NELAP	0.100		**132**	mg/L	1	02/14/2026 14:29	251742
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 14:29	251742
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 14:29	251742
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/14/2026 14:29	251742
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/14/2026 14:29	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0020**	mg/L	5	02/21/2026 1:57	251742
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	02/21/2026 1:57	251742
Lithium	*	0.0030		**0.0177**	mg/L	5	02/23/2026 18:01	251742
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/21/2026 1:57	251742
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/21/2026 1:57	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/14/2026 18:57	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**6.24**	pci/L	1	02/27/2026 7:28	R380064
Combined 226/228 Uncertainty	*	0		**1.47**	+/-	1	02/27/2026 7:28	R380064
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R380064
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	02/27/2026 7:28	R380064
Radium-228	*	1.00		**6.14**	pci/L	1	02/26/2026 13:46	R380064
Radium-228 Uncertainty	*	0		**1.40**	+/-	1	02/26/2026 13:46	R380064

Client: City Water, Light & Power **Work Order:** 26020093

Client Project: FGDS Landfill **Report Date:** 12-Mar-26

Lab ID: 26020093-002 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 13:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	02/11/2026 13:41	R379199
Depth to water	*	-5.00		**29.04**	ft	1	02/11/2026 13:41	R379199
Depth to water from measuring point	*	0		**30.91**	ft	1	02/11/2026 13:41	R379199
Elevation of groundwater surface	*	0		**524.69**	ft	1	02/11/2026 13:41	R379199
Measuring Point Elevation	*	0		**555.60**	ft	1	02/11/2026 13:41	R379199
Measuring Point Height Above Land Surface	*	0		**1.87**	ft	1	02/11/2026 13:41	R379199
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	02/11/2026 13:41	R379199
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.3**	°F	1	02/11/2026 13:41	R379199
SW-846 9040B								
pH, Field	*	1.00		**6.95**		1	02/11/2026 13:41	R379199
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1540**	µmhos/cm @25C	1	02/11/2026 13:41	R379199
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1040**	mg/L	1	02/18/2026 10:35	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 15:12	R379009
Chloride	NELAP	5.00		**31.6**	mg/L	10	02/13/2026 15:12	R379009
Sulfate	NELAP	10.0		**316**	mg/L	10	02/13/2026 15:12	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.380**	mg/L	1	02/14/2026 14:39	251742
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/14/2026 14:39	251742
Boron	NELAP	0.0200		**3.36**	mg/L	1	02/14/2026 14:39	251742
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/14/2026 14:39	251742
Calcium	NELAP	0.100	S	**182**	mg/L	1	02/14/2026 14:39	251742
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 14:39	251742
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 14:39	251742
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/14/2026 14:39	251742
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/14/2026 14:39	251742
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0010**	mg/L	5	02/21/2026 2:02	251742
Arsenic	NELAP	0.0010		**0.0075**	mg/L	5	02/21/2026 2:02	251742
Lithium	*	0.0030		**0.0065**	mg/L	5	02/24/2026 9:13	251742
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/21/2026 2:02	251742
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/21/2026 2:02	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/14/2026 18:59	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	02/27/2026 7:28	R380064
Combined 226/228 Uncertainty	*	0		**0.630**	+/-	1	02/27/2026 7:28	R380064
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R380064
Radium-226 Uncertainty	*	0		**0.110**	+/-	1	02/27/2026 7:28	R380064
Radium-228	*	1.00		**ND**	pci/L	1	02/26/2026 13:46	R380064

Client: City Water, Light & Power
Work Order: 26020093
Client Project: FGDS Landfill
Report Date: 12-Mar-26
Lab ID: 26020093-002
Client Sample ID: G121
Matrix: GROUNDWATER
Collection Date: 02/11/2026 13:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.520**	+/-	1	02/26/2026 13:46	R380064

Client: City Water, Light & Power **Work Order:** 26020093

Client Project: FGDS Landfill **Report Date:** 12-Mar-26

Lab ID: 26020093-003 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 14:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**505.11**	ft	1	02/11/2026 14:38	R379199
Depth to water	*	-5.00		**30.74**	ft	1	02/11/2026 14:38	R379199
Depth to water from measuring point	*	0		**32.48**	ft	1	02/11/2026 14:38	R379199
Elevation of groundwater surface	*	0		**521.92**	ft	1	02/11/2026 14:38	R379199
Measuring Point Elevation	*	0		**554.40**	ft	1	02/11/2026 14:38	R379199
Measuring Point Height Above Land Surface	*	0		**1.74**	ft	1	02/11/2026 14:38	R379199
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**15**	NTU	1	02/11/2026 14:38	R379199
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.0**	°F	1	02/11/2026 14:38	R379199
SW-846 9040B								
pH, Field	*	1.00		**6.66**		1	02/11/2026 14:38	R379199
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1710**	µmhos/cm @25C	1	02/11/2026 14:38	R379199
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1370**	mg/L	1	02/18/2026 10:35	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 15:25	R379009
Chloride	NELAP	5.00		**38.4**	mg/L	10	02/13/2026 15:25	R379009
Sulfate	NELAP	10.0		**558**	mg/L	10	02/13/2026 15:25	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.425**	mg/L	1	02/14/2026 13:40	251742
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/14/2026 13:40	251742
Boron	NELAP	0.0200		**12.0**	mg/L	1	02/14/2026 13:40	251742
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/14/2026 13:40	251742
Calcium	NELAP	0.100		**256**	mg/L	1	02/14/2026 13:40	251742
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 13:40	251742
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 13:40	251742
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/14/2026 13:40	251742
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/14/2026 13:40	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/21/2026 2:08	251742
Arsenic	NELAP	0.0010		**0.0025**	mg/L	5	02/21/2026 2:08	251742
Lithium	*	0.0030		**0.0072**	mg/L	5	02/23/2026 18:07	251742
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/21/2026 2:08	251742
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/21/2026 2:08	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/14/2026 19:02	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**3.42**	pci/L	1	02/27/2026 7:28	R380064
Combined 226/228 Uncertainty	*	0		**1.11**	+/-	1	02/27/2026 7:28	R380064
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R380064
Radium-226 Uncertainty	*	0		**0.160**	+/-	1	02/27/2026 7:28	R380064
Radium-228	*	1.00		**2.44**	pci/L	1	02/26/2026 13:46	R380064
Radium-228 Uncertainty	*	0		**0.950**	+/-	1	02/26/2026 13:46	R380064

Client: City Water, Light & Power **Work Order:** 26020093

Client Project: FGDS Landfill **Report Date:** 12-Mar-26

Lab ID: 26020093-004 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 02/11/2026 14:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	02/11/2026 14:43	R379199
Depth to water	*	-5.00		**3.37**	ft	1	02/11/2026 14:43	R379199
Depth to water from measuring point	*	0		**6.67**	ft	1	02/11/2026 14:43	R379199
Elevation of groundwater surface	*	0		**523.31**	ft	1	02/11/2026 14:43	R379199
Measuring Point Elevation	*	0		**529.98**	ft	1	02/11/2026 14:43	R379199
Measuring Point Height Above Land Surface	*	0		**3.30**	ft	1	02/11/2026 14:43	R379199
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.0**	NTU	1	02/11/2026 14:43	R379199
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.8**	°F	1	02/11/2026 14:43	R379199
SW-846 9040B								
pH, Field	*	1.00		**7.02**		1	02/11/2026 14:43	R379199
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1040**	µmhos/cm @25C	1	02/11/2026 14:43	R379199
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**648**	mg/L	1	02/18/2026 10:35	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/13/2026 15:37	R379009
Chloride	NELAP	5.00		**23.3**	mg/L	10	02/13/2026 15:37	R379009
Sulfate	NELAP	10.0		**78.4**	mg/L	10	02/13/2026 15:37	R379009
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.422**	mg/L	1	02/14/2026 13:42	251742
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/14/2026 13:42	251742
Boron	NELAP	0.0200		**1.92**	mg/L	1	02/14/2026 13:42	251742
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/14/2026 13:42	251742
Calcium	NELAP	0.100		**138**	mg/L	1	02/14/2026 13:42	251742
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 13:42	251742
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 13:42	251742
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/14/2026 13:42	251742
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/14/2026 13:42	251742
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/21/2026 2:14	251742
Arsenic	NELAP	0.0010		**0.0099**	mg/L	5	02/21/2026 2:14	251742
Lithium	*	0.0030		**0.0057**	mg/L	5	02/23/2026 18:12	251742
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/21/2026 2:14	251742
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/21/2026 2:14	251742
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/14/2026 19:08	251768
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**2.29**	pci/L	1	02/27/2026 7:28	R380064
Combined 226/228 Uncertainty	*	0		**0.880**	+/-	1	02/27/2026 7:28	R380064
Radium-226	*	1.00		**ND**	pci/L	1	02/27/2026 7:28	R380064
Radium-226 Uncertainty	*	0		**0.120**	+/-	1	02/27/2026 7:28	R380064
Radium-228	*	1.00		**1.83**	pci/L	1	02/26/2026 13:46	R380064
Radium-228 Uncertainty	*	0		**0.760**	+/-	1	02/26/2026 13:46	R380064

Client: City Water, Light & Power **Work Order:** 26020093

Client Project: FGDS Landfill **Report Date:** 12-Mar-26

Lab ID: 26020093-005 **Client Sample ID:** P07D

Matrix: GROUNDWATER **Collection Date:** 02/12/2026 9:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.71**	ft	1	02/12/2026 9:50	R379199
Depth to water	*	-5.00		**3.16**	ft	1	02/12/2026 9:50	R379199
Depth to water from measuring point	*	0		**6.16**	ft	1	02/12/2026 9:50	R379199
Elevation of groundwater surface	*	0		**522.09**	ft	1	02/12/2026 9:50	R379199
Measuring Point Elevation	*	0		**528.25**	ft	1	02/12/2026 9:50	R379199
Measuring Point Height Above Land Surface	*	0		**3.00**	ft	1	02/12/2026 9:50	R379199
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**77**	NTU	1	02/12/2026 9:50	R379199
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**51.8**	°F	1	02/12/2026 9:50	R379199
SW-846 9040B								
pH, Field	*	1.00		**6.87**		1	02/12/2026 9:50	R379199
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1290**	µmhos/cm @25C	1	02/12/2026 9:50	R379199
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**994**	mg/L	1	02/18/2026 16:51	R379405
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/15/2026 22:08	R379074
Chloride	NELAP	5.00		**30.7**	mg/L	10	02/15/2026 22:08	R379074
Sulfate	NELAP	10.0		**306**	mg/L	10	02/15/2026 22:08	R379074
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.917**	mg/L	1	02/14/2026 16:56	251804
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/14/2026 16:56	251804
Boron	NELAP	0.0200		**4.87**	mg/L	1	02/14/2026 16:56	251804
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/14/2026 16:56	251804
Calcium	NELAP	0.100		**190**	mg/L	1	02/14/2026 16:56	251804
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 16:56	251804
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/14/2026 16:56	251804
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/14/2026 16:56	251804
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/14/2026 16:56	251804
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/21/2026 6:39	251804
Arsenic	NELAP	0.0010		**0.0294**	mg/L	5	02/24/2026 10:35	251804
Lithium	*	0.0030		**0.0091**	mg/L	5	02/24/2026 10:35	251804
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2026 10:35	251804
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/21/2026 6:39	251804
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2026 13:51	251890
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**3.39**	pci/L	1	02/27/2026 7:28	R380064
Combined 226/228 Uncertainty	*	0		**1.00**	+/-	1	02/27/2026 7:28	R380064
Radium-226	*	1.00		**1.50**	pci/L	1	02/27/2026 7:28	R380064
Radium-226 Uncertainty	*	0		**0.200**	+/-	1	02/27/2026 7:28	R380064
Radium-228	*	1.00		**1.89**	pci/L	1	02/26/2026 13:46	R380064
Radium-228 Uncertainty	*	0		**0.800**	+/-	1	02/26/2026 13:46	R380064

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 26020093
Report Date: 12-Mar-26

Carrier: Brett Gillihan

Received By: LEH

Completed by: Laura E Henson
On: 12-Feb-26

Reviewed by: Amber Dilallo
On: 13-Feb-26

Pages to follow: Chain of custody 2 Extra pages included 23

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 5.4
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #104524. -JD/ lhenson - 2/12/2026 11:24:39 AM

Additional cooler temperatures: 10.0C, 7.8C, 3.4C. LTG#9. LH 2/12/26

Samples were received on 2/12/26 at 1315 on ice [temp10.4C, 8.0C, 6.6C - LTG#9]. pH#104524. - DM/lhenson - 2/13/2026 7:24:40 AM

Print PDF

CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 26020093

5.4 10.0
7.8 3.4

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 4 °C
Preserved in: [ ] LAB [x] FIELD FOR LAB USE ONLY
LAB NOTES: PH104524

JD 2/12/26

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS
Brett Gillihan

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
26020093-001	R101	2.11 | 946	Groundwater	1	4								✓	✓	✓	✓	✓	✓
002	G121	2.11 | 1341	Groundwater	1	4								✓	✓	✓	✓	✓	✓
003	G122	2.11 | 1438	Groundwater	1	4								✓	✓	✓	✓	✓	✓
004	AW-2	2.11 | 1443	Groundwater	1	4								✓	✓	✓	✓	✓	✓
005	P07D		Groundwater	1	4								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
[signature]	2.11 | 1646	[signature]	2/11/26 1646

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 26020093

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

10.4

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 8.0/6.6 °C 9
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: PH-104524 Ai 2-13-26

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Britt Gillihan

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
26020093-001	R101		Groundwater	1	4								✓	✓	✓	✓	✓	✓
002	G121		Groundwater	1	4								✓	✓	✓	✓	✓	✓
003	G122		Groundwater	1	4								✓	✓	✓	✓	✓	✓
004	AW-2		Groundwater	1	4								✓	✓	✓	✓	✓	✓
005	P07D	2-12-26 950	Groundwater	1	4								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
[signature]	2-12-26 1315	[signature]	2/12/26 1315

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	R101
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	26020093	**Date (s):**	2/11/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 33 °F Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 9:26 AM

Static Water Level: 8.84 feet below TOC

Total Depth: 35.27 feet below TOC

Water Column: 26.43 feet

Purging Activities

Purged By: AL Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 26.43 ft. x 0.022 = 0.58 L x 3 Vol. = 1.74 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:26	0.0	150	purge start time						
9:34	1.2	↓	7.32	1,260.70	7.69	1.83	174.60	13.03	
9:37	1.7		7.30	1,256.40	8.28	1.61	175.60	9.94	
9:40	2.1		7.32	1,259.30	8.27	1.44	175.70	8.54	
9:43	2.5		7.33	1,263.10	8.42	1.32	176.70	9.28	
9:46	3.0		7.33	1,260.60	8.70	1.26	177.20	7.79	

Sampling Activities

Sampled By: PY Sample Date/Time: 2/11/2026 9:46

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

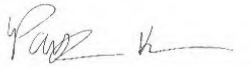
Sample Parameters: 7.33 pH 1,260.60 Spec. Cond. 8.70 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 11.11 feet below TOC Drawdown: 2.27 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 218076

Form Completed By:  **Date:** 2/11/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	G121
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	26020093	**Date (s):**	2/11/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 46 °F Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/11/26 1:43 PM

Static Water Level: 30.91 feet below TOC

Total Depth: 58.56 feet below TOC

Water Column: 27.65 feet

Purging Activities

Purged By: AL Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 27.65 ft. x 0.022 = 0.61 L x 3 Vol. = 1.83 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:19	0.0	136	purge start time						
13:32	1.8	↓	6.97	1,543.30	13.04	1.56	-58.40	1.01	
13:35	2.2		6.96	1,543.30	12.64	1.44	-60.90	0.74	
13:38	2.6		6.95	1,540.90	12.89	1.37	-63.30	0.57	
13:41	3.0		6.95	1,543.20	12.94	1.33	-65.60	0.38	

Sampling Activities

Sampled By: PY Sample Date/Time: 2/11/2026 13:41

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.95 pH 1,543.20 Spec. Cond. 12.94 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 31.12 feet below TOC Drawdown: 0.21 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 218076

Form Completed By:  **Date:** 2/11/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	G122
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	26020093	**Date (s):**	2/11/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 48 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/11/26 2:09 PM

Static Water Level: 32.48 feet below TOC

Total Depth: 49.29 feet below TOC

Water Column: 16.81 feet

Purging Activities

Purged By: DC Purge Date: 2/11/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 16.81 ft. x 0.022 = 0.37 L x 3 Vol. = 1.11 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
14:09	0.0	103	purge start time						
14:26	1.8	↓	6.67	1,698.20	13.12	1.52	-106.30	11.41	
14:29	2.1		6.67	1,700.40	12.92	1.20	-109.60	14.81	
14:32	2.4		6.67	1,701.50	13.12	1.06	-110.90	15.57	
14:35	2.7		6.66	1,706.60	13.23	0.97	-112.10	14.44	
14:38	3.0		6.66	1,710.20	13.34	0.92	-113.10	14.74	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/11/2026 14:38

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.66 pH 1,710.20 Spec. Cond. 13.34 Temp

Field Filtered: No Filter Type:

Water Level: 33.75 feet below TOC Drawdown: 1.27 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Brett Gillihan **Date:** 2/11/2026

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 26020093
Monitoring Point: AW-2
Sample ID: 004
Date (s): 2/11/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 41 °F Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/11/26 2:27 PM
Static Water Level: 6.67 feet below TOC
Total Depth: 32.64 feet below TOC
Water Column: 25.97 feet

Purging Activities

Purged By: AL Purge Date: 2/11/2026
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 25.97 ft. x 0.022 = 0.57 L x 3 Vol. = 1.71 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear Odor: Moderate Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
14:27	0.0	187	purge start time						
14:34	1.3	↓	7.04	1,042.00	13.03	1.21	54.90	9.17	
14:37	1.9		7.02	1,041.60	13.10	1.05	54.90	10.70	
14:40	2.4		7.02	1,041.70	13.19	0.96	53.40	8.16	
14:43	3.0		7.02	1,042.10	13.23	0.90	50.50	7.03	

Sampling Activities

Sampled By: PY Sample Date/Time: 2/11/2026 14:43
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 7.02 pH 1,042.10 Spec. Cond. 13.23 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 6.71 feet below TOC Drawdown: 0.04 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 218076

Form Completed By: Allison Lampe **Date:** 2/11/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	P07D
Project Location:	Springfield, IL	**Sample ID:**	005
W.O. Number (s):	26020093	**Date (s):**	2/12/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 39 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/12/26 9:19 AM

Static Water Level: 6.16 feet below TOC

Total Depth: 32.54 feet below TOC

Water Column: 26.38 feet

Purging Activities

Purged By: DC Purge Date: 2/12/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 26.38 ft. x 0.022 = 0.58 L x 3 Vol. = 1.74 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Lt Brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:19	0.0	129	purge start time						
9:38	2.5	↓	6.86	1,293.40	10.89	1.12	-119.50	70.82	
9:41	2.8		6.86	1,295.20	10.86	1.01	-121.30	81.85	
9:44	3.2		6.86	1,292.30	10.87	0.96	-122.20	92.23	
9:47	3.6		6.87	1,292.40	10.94	0.95	-122.70	80.63	
9:50	4.0		6.87	1,292.20	11.00	0.92	-123.00	76.92	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/12/2026 9:50

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.87 pH 1,292.20 Spec. Cond. 11.00 Temp

Field Filtered: No Filter Type:

Water Level: 7.72 feet below TOC Drawdown: 1.56 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Brett Gillihan **Date:** 2/12/2026

Site Samping Event: FGDS Landfill
LIMS Workorder: 26020093
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 1Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218076 Technician(s): A.Lampe Date: 2/12/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	127.00	2/11/26 8:47
7.0 Buffer	WC251017B	7.00	-42.10	2/11/26 8:51
10.0 Buffer	WC251017C	10.00	-209.10	2/11/26 8:54
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1412	2/11/26 8:57

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.23	2/11/26 9:05
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-AL	LCS	2/11/26 9:04	6.4	7.05	1,415	0.26		
CCV-1-AL	CCV	2/11/26 14:49	12.2	7.09	1,394	0.23		

Comments:

Field Meter ID: Pine 218076 Technician(s): A.Lampe Date: 2/12/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	124.40	2/12/26 8:57
7.0 Buffer	WC251017B	7.00	-44.60	2/12/26 8:59
10.0 Buffer	WC251017C	10.00	-208.20	2/12/26 9:02
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1412	2/12/26 9:06

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.72	2/12/26 9:11
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-AL	LCS	2/12/26 9:11	6.3	7.05	1,411	0.72		
CCV-2-AL	CCV	2/12/26 11:22	7.8	7.09	1,393	0.56		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 26020093
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 1Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 217941 Technician(s): Brett Gillihan Date: 2/11/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	143.20	2/11/26 9:01
7.0 Buffer	WC251017B	7.00	0.00	2/11/26 8:56
10.0 Buffer	WC251017C	10.00	-196.30	2/11/26 9:05
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1412	2/11/26 9:08

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.23	2/11/26 9:15
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	2/11/26 9:17	7.8	7.01	1,422	0.28		
CCV-1-BG	CCV	2/11/26 14:45	9.3	7.01	1,426	0.29		

Comments:

Field Meter ID: Pine 217941 Technician(s): Brett Gillihan Date: 2/12/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	140.30	2/12/26 8:56
7.0 Buffer	WC251017B	7.00	-30.80	2/12/26 8:48
10.0 Buffer	WC251017C	10.02	-197.80	2/12/26 8:58
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	108769	1413	2/12/26 9:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.35	2/12/26 9:11
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	2/12/26 9:18	7.3	7.02	1,422	0.41		
CCV-2-BG	CCV	2/12/26 11:12	7.9	7.03	1,428	0.43		

Comments:

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

March 04, 2026

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 26020093

Dear Shelly Hennessy: Order No.: 26021091

Alliance Technical Group - Akron received 5 sample(s) on 2/16/2026 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **26021091**
Date: **3/4/2026**

CLIENT: TEKLAB Inc,
Project: 26020093

WorkOrder Narrative:
26021091: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence Sample Notes:
26021091-001A Radium-228_DW(904.0): Sample result to be reported at client's request without confirmation due to limited volume.
26021091-003A Radium-228_DW(904.0): Sample result to be reported at client's request without confirmation due to limited volume.

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Qualifiers and Acronyms

WO#: **26021091**
Date: **3/4/2026**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **26021091**

04-Mar-26

CLIENT: TEKLAB Inc,
Project: 26020093

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
26021091-001	26020093-001		2/11/2026 9:46:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water
26021091-002	26020093-002		2/11/2026 1:41:00 PM	2/16/2026 1:00:00 PM	Non-Potable Water
26021091-003	26020093-003		2/11/2026 2:38:00 PM	2/16/2026 1:00:00 PM	Non-Potable Water
26021091-004	26020093-004		2/11/2026 2:43:00 PM	2/16/2026 1:00:00 PM	Non-Potable Water
26021091-005	26020093-005		2/12/2026 9:50:00 AM	2/16/2026 1:00:00 PM	Non-Potable Water

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DATES REPORT

WO#: **26021091**

04-Mar-26

Client: TEKLAB Inc,
Project: 26020093

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26021091-001A	26020093-001	2/11/2026 9:46:00 AM	Non-Potable Water	Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021091-002A	26020093-002	2/11/2026 1:41:00 PM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021091-003A	26020093-003	2/11/2026 2:38:00 PM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021091-004A	26020093-004	2/11/2026 2:43:00 PM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM
26021091-005A	26020093-005	2/12/2026 9:50:00 AM		Radium-226 (903.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-226/228 (903.0/904.0)		2/19/2026 7:50:00 AM	2/27/2026 7:28:00 AM
				Radium-228 (904.0)		2/19/2026 7:50:00 AM	2/26/2026 1:46:00 PM

Original

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Analytical Report

(consolidated)

WO#: **26021091**

Date Reported: **3/4/2026**

CLIENT: TEKLAB Inc,
Project: 26020093
Lab ID: 26021091-001
Client Sample ID: 26020093-001

Collection Date: 2/11/2026 9:46:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)					**PA 903.0/EPA904.(**		**900 SERIES**	Analyst: **TAL**
Radium-226/Radium-228 Combined	6.24	2.00	2.00	*	pCi/L	± 1.47	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)						**EPA 903.0**	**900 SERIES**	Analyst: **TAL**
Radium-226	0.1	0.627	1.00	U	pCi/L	± 0.07	1	2/27/2026 7:28:00 AM
Yield	0.910						1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)						**EPA 904.0**	**900 SERIES**	Analyst: **TAL**
Radium-228	6.14	0.640	1.00	*	pCi/L	± 1.4	1	2/26/2026 1:46:00 PM
Yield	0.840						1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
U	Samples with CalcVal < MDL
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **26021091**

Date Reported: **3/4/2026**

CLIENT: TEKLAB Inc,
Project: 26020093
Lab ID: 26021091-002
Client Sample ID: 26020093-002

Collection Date: 2/11/2026 1:41:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0)					**EPA 903.0/EPA904.0**		**900 SERIES**	Analyst: **TAL**
RADIUM-226/228 (903.0/904.0)								
Radium-226/Radium-228 Combined	ND	2.00	2.00	U	pCi/L	± 0.63	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0)					**EPA 903.0**		**900 SERIES**	Analyst: **TAL**
RADIUM-226 (903.0)								
Radium-226	ND	0.627	1.00	U	pCi/L	± 0.11	1	2/27/2026 7:28:00 AM
Yield	1.00						1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0)					**EPA 904.0**		**900 SERIES**	Analyst: **TAL**
RADIUM-228 (904.0)								
Radium-228	ND	0.640	1.00	U	pCi/L	± 0.52	1	2/26/2026 1:46:00 PM
Yield	1.00						1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
U	Samples with CalcVal < MDL
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **26021091**

Date Reported: **3/4/2026**

CLIENT: TEKLAB Inc,
Project: 26020093
Lab ID: 26021091-003
Client Sample ID: 26020093-003

Collection Date: 2/11/2026 2:38:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0)					**EPA 903.0/EPA904.0**		**900 SERIES**	Analyst: **TAL**
RADIUM-226/228 (903.0/904.0)								
Radium-226/Radium-228 Combined	3.42	2.00	2.00		pCi/L	± 1.11	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0)					**EPA 903.0**		**900 SERIES**	Analyst: **TAL**
RADIUM-226 (903.0)								
Radium-226	0.980	0.627	1.00	J	pCi/L	± 0.16	1	2/27/2026 7:28:00 AM
Yield	1.00						1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0)					**EPA 904.0**		**900 SERIES**	Analyst: **TAL**
RADIUM-228 (904.0)								
Radium-228	2.44	0.640	1.00		pCi/L	± 0.95	1	2/26/2026 1:46:00 PM
Yield	0.880						1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
U	Samples with CalcVal < MDL
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **26021091**

Date Reported: **3/4/2026**

CLIENT: TEKLAB Inc,
Project: 26020093
Lab ID: 26021091-004
Client Sample ID: 26020093-004

Collection Date: 2/11/2026 2:43:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0)					**EPA 903.0/EPA904.0**		**900 SERIES**	Analyst: **TAL**
RADIUM-226/228 (903.0/904.0)								
Radium-226/Radium-228 Combined	2.29	2.00	2.00		pCi/L	± 0.88	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0)					**EPA 903.0**		**900 SERIES**	Analyst: **TAL**
RADIUM-226 (903.0)								
Radium-226	0.46	0.627	1.00	U	pCi/L	± 0.12	1	2/27/2026 7:28:00 AM
Yield	0.980						1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0)					**EPA 904.0**		**900 SERIES**	Analyst: **TAL**
RADIUM-228 (904.0)								
Radium-228	1.83	0.640	1.00		pCi/L	± 0.76	1	2/26/2026 1:46:00 PM
Yield	1.00						1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
U	Samples with CalcVal < MDL
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **26021091**

Date Reported: **3/4/2026**

CLIENT: TEKLAB Inc,
Project: 26020093
Lab ID: 26021091-005
Client Sample ID: 26020093-005

Collection Date: 2/12/2026 9:50:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226/228 (903.0/904.0)					**PA 903.0/EPA904.(**		**900 SERIES**	Analyst: **TAL**
Radium-226/Radium-228 Combined	3.39	2.00	2.00		pCi/L	± 1	1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-226 (903.0)					**EPA 903.0**		**900 SERIES**	Analyst: **TAL**
Radium-226	1.50	0.627	1.00		pCi/L	± 0.2	1	2/27/2026 7:28:00 AM
Yield	0.890						1	2/27/2026 7:28:00 AM
COMBINED RADIUM-226/228 (EPA 903.0/904.0) RADIUM-228 (904.0)					**EPA 904.0**		**900 SERIES**	Analyst: **TAL**
Radium-228	1.89	0.640	1.00		pCi/L	± 0.8	1	2/26/2026 1:46:00 PM
Yield	1.00						1	2/26/2026 1:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **26021091**

04-Mar-26

Client: TEKLAB Inc,
Project: 26020093 **BatchID:** **93295**

Sample ID: **MB-93295**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229951**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/26/2026**	SeqNo: **6065009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: **LCS-93295**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229951**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/26/2026**	SeqNo: **6065010**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.83	1.00	5.000	0	56.6	50	130				QLR
Yield	0.810			0	0						

Sample ID: **LCSD-93295**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229951**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/26/2026**	SeqNo: **6065011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.69	1.00	5.000	0	73.8	50	130	2.830	26.4	20	R
Yield	1.00			0	0			0.8100	21.0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spec

Original

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QC SUMMARY REPORT

WO#: **26021091**

04-Mar-26

Client: TEKLAB Inc,
Project: 26020093 **BatchID:** **93295**

Sample ID: **26021092-004ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229951**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/26/2026**	SeqNo: **6065027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.16	1.00		0	0			1.120	3.51	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spec

Original

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QC SUMMARY REPORT

WO#: **26021091**

04-Mar-26

Client: TEKLAB Inc,
Project: 26020093 **BatchID:** **93295**

Sample ID: **MB-93295**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229968**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/27/2026**	SeqNo: **6065175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	1.00										

Sample ID: **LCS-93295**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229968**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/27/2026**	SeqNo: **6065176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.58	1.00	5.000	0	91.6	70	130				

Sample ID: **LCSD-93295**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229968**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/27/2026**	SeqNo: **6065177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.12	1.00	5.000	0	82.4	70	130	4.580	10.6	20	

Sample ID: **26021092-003ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/19/2026**	RunNo: **229968**
Client ID: **BatchQC**	Batch ID: **93295**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/27/2026**	SeqNo: **6065191**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spec

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26021091**

04-Mar-26

Client: TEKLAB Inc,
Project: 26020093 **BatchID:** **93295**

Sample ID: **26021092-003ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **229968**
Client ID: **BatchQC** Batch ID: **93295** TestNo: **E903.0** **E903-904** Analysis Date: **2/27/2026** SeqNo: **6065191**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U
Yield	0.980							0.9500	3.11	0	

Sample ID: **26021092-004ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/19/2026** RunNo: **229968**
Client ID: **BatchQC** Batch ID: **93295** TestNo: **E903.0** **E903-904** Analysis Date: **2/27/2026** SeqNo: **6065193**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U
Yield	0.990							1.000	1.01	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spec

Original

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

26021091

Are the samples chilled? YES ☑ NO ☐ With: ☑ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: | Sampler: teklab employee | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
State of Sample Origin = IL
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.

Project# 26020093

Contact: Shelly Hennessy | Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 40451 | Phone: (618) 344-1004 x 1024

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Radium 226	Radium 228	(CW)
~~pH<2,2,2~~	26020093-001	2/11/26 946	☐	☑	☐	☐	☐	Groundwater	☐	✔	✔	~~30,40,37~~
~~pH<2,2,2~~	26020093-002	2/11/26 1341	☐	☑	☐	☐	☐	Groundwater	☐	✔	✔	~~18,20,20~~ SN
~~pH<2,2,2~~ SN	26020093-003	2/11/26 1438	☐	☑	☐	☐	☐	Groundwater	☐	✔	✔	~~20,26,28~~ 2/16/26
~~pH<2,2,2~~ 2/11	26020093-004	2/11/26 1443	☐	☑	☐	☐	☐	Groundwater	☐	✔	✔	~~20,15,20~~
~~pH<2,2,2~~	26020093-005	2/12/26 950	☐	☑	☐	☐	☐	Groundwater	☐	✔	✔	~~18,16,16~~
			☐	☐	☐	☐	☐	Aqueous				
			☐	☐	☐	☐	☐	Aqueous				
			☐	☐	☐	☐	☐	Aqueous				
			☐	☐	☐	☐	☐	Aqueous				
			☐	☐	☐	☐	☐	Aqueous				
			☐	☐	☐	☐	☐	Aqueous				

*Relinquished By	Date/Time	Received By	Date/Time
	2/13/26 1700	2/16/26	
		Faex 1300	C.S. intact
		21.8+0.0=21.8	2/13

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **26021091** RcptNo: **1**

Logged by:	**Spencer M. Hartwell**	**2/16/2026 1:00:00 PM**	Spencer M. Hartwell
Completed By:	**Spencer M. Hartwell**	**2/16/2026 2:34:19 PM**	Spencer M. Hartwell
Reviewed By:	**Jennifer Woolf**	**2/23/2026 2:12:02 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: 2/13/2026 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.8	Good	Yes		2/13/2026	

May 22, 2026

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100467
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 26041298

Dear Eric Staley:

TEKLAB, INC received 22 samples on 4/23/2026 1:04:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26041298
Report Date: 22-May-26

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	40
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 26041298

Client Project: Ash Pond Monitoring Wells **Report Date:** 22-May-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26041298
Report Date: 22-May-26

Cooler Receipt Temp: 2.4 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Alliance Technical Group. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville

Address 120 United Drive
Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 120 United Drive
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100467	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2027	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2027	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2027	Collinsville
Illinois	IDPH	17584		5/31/2026	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Louisiana	LDEQ	05003		6/30/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 04/22/2026 11:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	04/22/2026 11:07	R383248
Depth to water	*	-5.00		**7.28**	ft	1	04/22/2026 11:07	R383248
Depth to water from measuring point	*	0		**9.98**	ft	1	04/22/2026 11:07	R383248
Elevation of groundwater surface	*	0		**529.52**	ft	1	04/22/2026 11:07	R383248
Measuring Point Elevation	*	0		**539.50**	ft	1	04/22/2026 11:07	R383248
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	04/22/2026 11:07	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	04/22/2026 11:07	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.9**	°F	1	04/22/2026 11:07	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.97**		1	04/22/2026 11:07	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**650**	µmhos/cm @25C	1	04/22/2026 11:07	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**454**	mg/L	1	04/23/2026 9:51	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 12:22	R382935
Chloride	NELAP	5.00		**27.2**	mg/L	10	04/26/2026 12:22	R382935
Sulfate	NELAP	10.0		**ND**	mg/L	10	04/26/2026 12:22	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**154**	µg/L	1	04/23/2026 18:54	255438
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 18:54	255438
Boron	NELAP	20.0		**161**	µg/L	1	04/23/2026 18:54	255438
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 18:54	255438
Calcium	NELAP	0.100		**71.5**	mg/L	1	04/23/2026 18:54	255438
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 18:54	255438
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 18:54	255438
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 18:54	255438
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 18:54	255438
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**14.2**	µg/L	5	05/18/2026 20:15	256647
Arsenic	NELAP	1.0		**87.4**	µg/L	5	05/03/2026 17:51	255438
Lithium	*	3.0		**8.4**	µg/L	5	05/14/2026 9:01	255438
Selenium	NELAP	1.0		**10.8**	µg/L	5	05/03/2026 17:51	255438
Thallium	NELAP	2.0		**2.3**	µg/L	5	05/03/2026 17:51	255438
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:00	255467
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.310**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223
Radium-228 Uncertainty	*	0		**0.260**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 04/22/2026 10:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	04/22/2026 10:43	R383248
Depth to water	*	-5.00		**7.48**	ft	1	04/22/2026 10:43	R383248
Depth to water from measuring point	*	0		**9.75**	ft	1	04/22/2026 10:43	R383248
Elevation of groundwater surface	*	0		**525.62**	ft	1	04/22/2026 10:43	R383248
Measuring Point Elevation	*	0		**535.37**	ft	1	04/22/2026 10:43	R383248
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	04/22/2026 10:43	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.8**	NTU	1	04/22/2026 10:43	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.6**	°F	1	04/22/2026 10:43	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.49**		1	04/22/2026 10:43	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1240**	µmhos/cm @25C	1	04/22/2026 10:43	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1860**	mg/L	1	04/23/2026 9:51	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 12:35	R382935
Chloride	NELAP	5.00		**50.1**	mg/L	10	04/26/2026 12:35	R382935
Sulfate	NELAP	10.0		**837**	mg/L	10	04/26/2026 12:35	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**266**	µg/L	1	04/23/2026 18:56	255438
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 18:56	255438
Boron	NELAP	200		**23600**	µg/L	10	04/27/2026 11:49	255438
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 18:56	255438
Calcium	NELAP	0.100		**255**	mg/L	1	04/23/2026 18:56	255438
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 18:56	255438
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 18:56	255438
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 18:56	255438
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 18:56	255438
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**13.6**	µg/L	5	05/18/2026 20:38	256647
Arsenic	NELAP	1.0		**3.0**	µg/L	5	05/03/2026 17:55	255438
Lithium	*	3.0		**11.3**	µg/L	5	05/14/2026 9:05	255438
Selenium	NELAP	1.0		**2.5**	µg/L	5	05/03/2026 17:55	255438
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/03/2026 17:55	255438
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:02	255467
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.490**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223
Radium-228 Uncertainty	*	0		**0.420**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 04/21/2026 12:27

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	04/21/2026 12:27	R383248
Depth to water	*	-5.00		**4.82**	ft	1	04/21/2026 12:27	R383248
Depth to water from measuring point	*	0		**7.32**	ft	1	04/21/2026 12:27	R383248
Elevation of groundwater surface	*	0		**528.78**	ft	1	04/21/2026 12:27	R383248
Measuring Point Elevation	*	0		**536.10**	ft	1	04/21/2026 12:27	R383248
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	04/21/2026 12:27	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**30**	NTU	1	04/21/2026 12:27	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.5**	°F	1	04/21/2026 12:27	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.50**		1	04/21/2026 12:27	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1410**	µmhos/cm @25C	1	04/21/2026 12:27	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1370**	mg/L	1	04/23/2026 9:51	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 12:48	R382935
Chloride	NELAP	5.00		**34.9**	mg/L	10	04/26/2026 12:48	R382935
Sulfate	NELAP	10.0		**424**	mg/L	10	04/26/2026 12:48	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**81.7**	µg/L	1	04/23/2026 21:15	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:15	255378
Boron	NELAP	20.0		**3600**	µg/L	1	04/23/2026 21:15	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:15	255378
Calcium	NELAP	0.100		**231**	mg/L	1	04/23/2026 21:15	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:15	255378
Cobalt	NELAP	5.0		**7.2**	µg/L	1	04/23/2026 21:15	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:15	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:15	255378
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**7.0**	µg/L	5	05/20/2026 14:25	255378
Arsenic	NELAP	1.0		**1.9**	µg/L	5	05/17/2026 12:38	255378
Lithium	*	3.0		**5.8**	µg/L	5	05/04/2026 18:51	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/09/2026 0:40	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 22:38	255378
Contamination present in the CCB for Se. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 16:37	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.460**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 04/21/2026 12:27

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.420**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 04/21/2026 13:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	04/21/2026 13:02	R383248
Depth to water	*	-5.00		**6.75**	ft	1	04/21/2026 13:02	R383248
Depth to water from measuring point	*	0		**9.30**	ft	1	04/21/2026 13:02	R383248
Elevation of groundwater surface	*	0		**525.95**	ft	1	04/21/2026 13:02	R383248
Measuring Point Elevation	*	0		**535.25**	ft	1	04/21/2026 13:02	R383248
Measuring Point Height Above Land Surface	*	0		**2.55**	ft	1	04/21/2026 13:02	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**100**	NTU	1	04/21/2026 13:02	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.4**	°F	1	04/21/2026 13:02	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.56**		1	04/21/2026 13:02	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1460**	µmhos/cm @25C	1	04/21/2026 13:02	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1360**	mg/L	1	04/23/2026 10:11	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 13:00	R382935
Chloride	NELAP	5.00		**66.4**	mg/L	10	04/26/2026 13:00	R382935
Sulfate	NELAP	10.0		**592**	mg/L	10	04/26/2026 13:00	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**140**	µg/L	1	04/23/2026 21:25	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:25	255378
Boron	NELAP	20.0		**16300**	µg/L	1	04/23/2026 21:25	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:25	255378
Calcium	NELAP	0.100		**207**	mg/L	1	04/23/2026 21:25	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:25	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:25	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:25	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:25	255378
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**6.3**	µg/L	5	05/20/2026 14:28	255378
Arsenic	NELAP	1.0		**22.0**	µg/L	5	05/15/2026 22:42	255378
Lithium	*	3.0		**4.2**	µg/L	5	05/04/2026 18:56	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/09/2026 0:45	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 22:42	255378

Sample result(s) for As exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.
Contamination present in the CCB for Se. Sample results below the reporting limit are reportable per the TNI Standard.

SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 16:39	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**2.45**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.650**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	05/05/2026 8:35	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 04/21/2026 13:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**2.45**	pci/L	1	05/04/2026 13:02	R384223
Radium-228 Uncertainty	*	0		**0.590**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 04/21/2026 9:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.19**	ft	1	04/21/2026 9:59	R383248
Depth to water	*	-5.00		**7.68**	ft	1	04/21/2026 9:59	R383248
Depth to water from measuring point	*	0		**10.82**	ft	1	04/21/2026 9:59	R383248
Elevation of groundwater surface	*	0		**544.78**	ft	1	04/21/2026 9:59	R383248
Measuring Point Elevation	*	0		**555.60**	ft	1	04/21/2026 9:59	R383248
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	04/21/2026 9:59	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**22**	NTU	1	04/21/2026 9:59	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.5**	°F	1	04/21/2026 9:59	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	04/21/2026 9:59	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**922**	µmhos/cm @25C	1	04/21/2026 9:59	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**520**	mg/L	1	04/23/2026 10:11	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 13:51	R382935
Chloride	NELAP	5.00		**12.3**	mg/L	10	04/26/2026 13:51	R382935
Sulfate	NELAP	10.0		**ND**	mg/L	10	04/26/2026 13:51	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**431**	µg/L	1	04/23/2026 21:26	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:26	255378
Boron	NELAP	20.0		**92.3**	µg/L	1	04/23/2026 21:26	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:26	255378
Calcium	NELAP	0.100		**136**	mg/L	1	04/23/2026 21:26	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:26	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:26	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:26	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:26	255378
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**6.2**	µg/L	5	05/20/2026 14:32	255378
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/15/2026 22:45	255378
Lithium	*	3.0		**5.8**	µg/L	5	05/04/2026 19:00	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/17/2026 12:45	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 22:45	255378
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 16:45	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.550**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**1.23**	pci/L	1	05/04/2026 13:02	R384223
Radium-228 Uncertainty	*	0		**0.480**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power **Work Order:** 26041298

Client Project: Ash Pond Monitoring Wells **Report Date:** 22-May-26

Lab ID: 26041298-006 **Client Sample ID:** AP-5

Matrix: GROUNDWATER **Collection Date:** 04/21/2026 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	04/21/2026 12:00	R383248
Depth to water	*	-5.00		**12.36**	ft	1	04/21/2026 12:00	R383248
Depth to water from measuring point	*	0		**14.66**	ft	1	04/21/2026 12:00	R383248
Elevation of groundwater surface	*	0		**569.24**	ft	1	04/21/2026 12:00	R383248
Measuring Point Elevation	*	0		**583.90**	ft	1	04/21/2026 12:00	R383248
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	04/21/2026 12:00	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.0**	NTU	1	04/21/2026 12:00	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.6**	°F	1	04/21/2026 12:00	R383248
SW-846 9040B								
pH, Field	*	1.00		**7.01**		1	04/21/2026 12:00	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**553**	µmhos/cm @25C	1	04/21/2026 12:00	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**588**	mg/L	1	04/23/2026 10:11	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 14:04	R382935
Chloride	NELAP	5.00		**8.09**	mg/L	10	04/26/2026 14:04	R382935
Sulfate	NELAP	10.0		**70.8**	mg/L	10	04/26/2026 14:04	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**59.5**	µg/L	1	04/23/2026 21:28	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:28	255378
Boron	NELAP	20.0		**42.0**	µg/L	1	04/23/2026 21:28	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:28	255378
Calcium	NELAP	0.100		**114**	mg/L	1	04/23/2026 21:28	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:28	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:28	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:28	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:28	255378
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**6.6**	µg/L	5	05/20/2026 14:36	255378
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/17/2026 12:49	255378
Lithium	*	3.0		**< 3.0**	µg/L	5	05/04/2026 19:04	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/09/2026 0:54	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 22:49	255378
Contamination present in the CCB for Se. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 16:47	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.340**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 04/21/2026 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.300**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 04/21/2026 11:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	04/21/2026 11:17	R383248
Depth to water	*	-5.00		**8.30**	ft	1	04/21/2026 11:17	R383248
Depth to water from measuring point	*	0		**10.72**	ft	1	04/21/2026 11:17	R383248
Elevation of groundwater surface	*	0		**527.10**	ft	1	04/21/2026 11:17	R383248
Measuring Point Elevation	*	0		**537.82**	ft	1	04/21/2026 11:17	R383248
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	04/21/2026 11:17	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**21**	NTU	1	04/21/2026 11:17	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.7**	°F	1	04/21/2026 11:17	R383248
SW-846 9040B								
pH, Field	*	1.00		**7.20**		1	04/21/2026 11:17	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**757**	µmhos/cm @25C	1	04/21/2026 11:17	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**478**	mg/L	1	04/23/2026 10:11	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**0.53**	mg/L	10	04/26/2026 14:42	R382935
Chloride	NELAP	5.00		**34.3**	mg/L	10	04/26/2026 14:42	R382935
Sulfate	NELAP	10.0		**ND**	mg/L	10	04/26/2026 14:42	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**156**	µg/L	1	04/23/2026 21:30	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:30	255378
Boron	NELAP	20.0		**268**	µg/L	1	04/23/2026 21:30	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:30	255378
Calcium	NELAP	0.100		**73.9**	mg/L	1	04/23/2026 21:30	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:30	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:30	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:30	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:30	255378
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**6.9**	µg/L	5	05/20/2026 14:40	255378
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/15/2026 22:53	255378
Lithium	*	3.0		**8.1**	µg/L	5	05/04/2026 19:09	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/09/2026 0:59	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 22:53	255378
Contamination present in the CCB for Se. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 16:50	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.250**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 04/21/2026 11:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.210**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 04/21/2026 11:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	04/21/2026 11:17	R383248
Depth to water	*	-5.00		**10.16**	ft	1	04/21/2026 11:17	R383248
Depth to water from measuring point	*	0		**12.82**	ft	1	04/21/2026 11:17	R383248
Elevation of groundwater surface	*	0		**526.20**	ft	1	04/21/2026 11:17	R383248
Measuring Point Elevation	*	0		**539.02**	ft	1	04/21/2026 11:17	R383248
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	04/21/2026 11:17	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.3**	NTU	1	04/21/2026 11:17	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	04/21/2026 11:17	R383248
SW-846 9040B								
pH, Field	*	1.00		**7.04**		1	04/21/2026 11:17	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**614**	µmhos/cm @25C	1	04/21/2026 11:17	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**508**	mg/L	1	04/23/2026 10:12	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 14:54	R382935
Chloride	NELAP	5.00		**47.7**	mg/L	10	04/26/2026 14:54	R382935
Sulfate	NELAP	10.0		**27.1**	mg/L	10	04/26/2026 14:54	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**127**	µg/L	1	04/23/2026 22:00	255376
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 22:00	255376
Boron	NELAP	20.0		**279**	µg/L	1	04/23/2026 22:00	255376
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 22:00	255376
Calcium	NELAP	0.100		**85.7**	mg/L	1	04/23/2026 22:00	255376
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:00	255376
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:00	255376
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 22:00	255376
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 22:00	255376
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:02	255376
Arsenic	NELAP	1.0		**22.2**	µg/L	5	05/01/2026 23:02	255376
Lithium	*	3.0		**8.0**	µg/L	5	05/01/2026 23:02	255376
Selenium	NELAP	1.0		**2.4**	µg/L	5	05/01/2026 23:02	255376
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/01/2026 23:02	255376
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 16:52	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.460**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223
Radium-228 Uncertainty	*	0		**0.410**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 04/21/2026 11:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	04/21/2026 11:56	R383248
Depth to water	*	-5.00		**3.03**	ft	1	04/21/2026 11:56	R383248
Depth to water from measuring point	*	0		**5.93**	ft	1	04/21/2026 11:56	R383248
Elevation of groundwater surface	*	0		**531.27**	ft	1	04/21/2026 11:56	R383248
Measuring Point Elevation	*	0		**537.20**	ft	1	04/21/2026 11:56	R383248
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	04/21/2026 11:56	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**27**	NTU	1	04/21/2026 11:56	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.3**	°F	1	04/21/2026 11:56	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.99**		1	04/21/2026 11:56	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**941**	µmhos/cm @25C	1	04/21/2026 11:56	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**592**	mg/L	1	04/23/2026 10:12	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 15:07	R382935
Chloride	NELAP	5.00		**23.0**	mg/L	10	04/26/2026 15:07	R382935
Sulfate	NELAP	10.0		**ND**	mg/L	10	04/26/2026 15:07	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**393**	µg/L	1	04/23/2026 22:09	255376
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 22:09	255376
Boron	NELAP	20.0		**88.2**	µg/L	1	04/23/2026 22:09	255376
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 22:09	255376
Calcium	NELAP	0.100		**105**	mg/L	1	04/23/2026 22:09	255376
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:09	255376
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:09	255376
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 22:09	255376
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 22:09	255376
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:05	255376
Arsenic	NELAP	1.0		**36.6**	µg/L	5	05/01/2026 23:05	255376
Lithium	*	3.0		**7.4**	µg/L	5	05/01/2026 23:05	255376
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:05	255376
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/01/2026 23:05	255376
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 14:54	255492
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.480**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223
Radium-228 Uncertainty	*	0		**0.420**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-010
Client Sample ID: AP-9
Matrix: GROUNDWATER
Collection Date: 04/21/2026 9:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.70**	ft	1	04/21/2026 9:50	R383248
Depth to water	*	-5.00		**8.72**	ft	1	04/21/2026 9:50	R383248
Depth to water from measuring point	*	0		**11.82**	ft	1	04/21/2026 9:50	R383248
Elevation of groundwater surface	*	0		**528.48**	ft	1	04/21/2026 9:50	R383248
Measuring Point Elevation	*	0		**540.30**	ft	1	04/21/2026 9:50	R383248
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	04/21/2026 9:50	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**81**	NTU	1	04/21/2026 9:50	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.4**	°F	1	04/21/2026 9:50	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.74**		1	04/21/2026 9:50	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**770**	µmhos/cm @25C	1	04/21/2026 9:50	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**638**	mg/L	1	04/23/2026 10:25	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 15:20	R382935
Chloride	NELAP	5.00		**24.1**	mg/L	10	04/26/2026 15:20	R382935
Sulfate	NELAP	10.0		**14.1**	mg/L	10	04/26/2026 15:20	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**431**	µg/L	1	04/23/2026 22:11	255376
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 22:11	255376
Boron	NELAP	20.0		**107**	µg/L	1	04/23/2026 22:11	255376
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 22:11	255376
Calcium	NELAP	0.100		**114**	mg/L	1	04/23/2026 22:11	255376
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:11	255376
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:11	255376
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 22:11	255376
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 22:11	255376
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:07	255376
Arsenic	NELAP	1.0		**1.2**	µg/L	5	05/01/2026 23:07	255376
Lithium	*	3.0		**7.1**	µg/L	5	05/01/2026 23:07	255376
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:07	255376
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/01/2026 23:07	255376
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 17:00	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.450**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223
Radium-228 Uncertainty	*	0		**0.370**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-011
Client Sample ID: AP10
Matrix: GROUNDWATER
Collection Date: 04/22/2026 10:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	04/22/2026 10:17	R383248
Depth to water	*	-5.00		**1.50**	ft	1	04/22/2026 10:17	R383248
Depth to water from measuring point	*	0		**4.60**	ft	1	04/22/2026 10:17	R383248
Elevation of groundwater surface	*	0		**532.90**	ft	1	04/22/2026 10:17	R383248
Measuring Point Elevation	*	0		**537.50**	ft	1	04/22/2026 10:17	R383248
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	04/22/2026 10:17	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.6**	NTU	1	04/22/2026 10:17	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.8**	°F	1	04/22/2026 10:17	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	04/22/2026 10:17	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**901**	µmhos/cm @25C	1	04/22/2026 10:17	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**824**	mg/L	1	04/23/2026 10:26	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 15:32	R382935
Chloride	NELAP	5.00		**25.3**	mg/L	10	04/26/2026 15:32	R382935
Sulfate	NELAP	10.0		**88.5**	mg/L	10	04/26/2026 15:32	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**602**	µg/L	1	04/23/2026 18:58	255438
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 18:58	255438
Boron	NELAP	20.0		**3700**	µg/L	1	04/23/2026 18:58	255438
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 18:58	255438
Calcium	NELAP	0.100		**138**	mg/L	1	04/23/2026 18:58	255438
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 18:58	255438
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 18:58	255438
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 18:58	255438
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 18:58	255438
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**13.6**	µg/L	5	05/18/2026 20:42	256647
Arsenic	NELAP	1.0		**1.7**	µg/L	5	05/03/2026 17:59	255438
Lithium	*	3.0		**7.1**	µg/L	5	05/21/2026 11:19	256647
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/03/2026 17:59	255438
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/03/2026 17:59	255438
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:04	255467
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.470**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.090**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223
Radium-228 Uncertainty	*	0		**0.380**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-012
Client Sample ID: AP11
Matrix: GROUNDWATER
Collection Date: 04/21/2026 10:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.15**	ft	1	04/21/2026 10:00	R383248
Depth to water	*	-5.00		**11.23**	ft	1	04/21/2026 10:00	R383248
Depth to water from measuring point	*	0		**14.03**	ft	1	04/21/2026 10:00	R383248
Elevation of groundwater surface	*	0		**524.07**	ft	1	04/21/2026 10:00	R383248
Measuring Point Elevation	*	0		**538.10**	ft	1	04/21/2026 10:00	R383248
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	04/21/2026 10:00	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.8**	NTU	1	04/21/2026 10:00	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.8**	°F	1	04/21/2026 10:00	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.34**		1	04/21/2026 10:00	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**985**	µmhos/cm @25C	1	04/21/2026 10:00	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**728**	mg/L	1	04/23/2026 10:26	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 15:45	R382935
Chloride	NELAP	5.00		**111**	mg/L	10	04/26/2026 15:45	R382935
Sulfate	NELAP	10.0		**66.5**	mg/L	10	04/26/2026 15:45	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**125**	µg/L	1	04/23/2026 21:31	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:31	255378
Boron	NELAP	20.0		**260**	µg/L	1	04/23/2026 21:31	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:31	255378
Calcium	NELAP	0.100		**146**	mg/L	1	04/23/2026 21:31	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:31	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:31	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:31	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:31	255378
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**7.5**	µg/L	5	05/20/2026 14:44	255378
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/15/2026 22:57	255378
Lithium	*	3.0		**5.4**	µg/L	5	05/04/2026 19:13	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/09/2026 1:03	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 22:57	255378
Contamination present in the CCB for Se. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 17:02	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.370**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.030**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-012
Client Sample ID: AP11
Matrix: GROUNDWATER
Collection Date: 04/21/2026 10:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.340**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power **Work Order:** 26041298

Client Project: Ash Pond Monitoring Wells **Report Date:** 22-May-26

Lab ID: 26041298-013 **Client Sample ID:** AP12

Matrix: GROUNDWATER **Collection Date:** 04/21/2026 11:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**510.30**	ft	1	04/21/2026 11:15	R383248
Depth to water	*	-5.00		**12.77**	ft	1	04/21/2026 11:15	R383248
Depth to water from measuring point	*	0		**15.67**	ft	1	04/21/2026 11:15	R383248
Elevation of groundwater surface	*	0		**525.03**	ft	1	04/21/2026 11:15	R383248
Measuring Point Elevation	*	0		**540.70**	ft	1	04/21/2026 11:15	R383248
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	04/21/2026 11:15	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**80**	NTU	1	04/21/2026 11:15	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.7**	°F	1	04/21/2026 11:15	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.35**		1	04/21/2026 11:15	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1330**	µmhos/cm @25C	1	04/21/2026 11:15	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1240**	mg/L	1	04/23/2026 10:26	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 16:36	R382935
Chloride	NELAP	5.00		**110**	mg/L	10	04/26/2026 16:36	R382935
Sulfate	NELAP	10.0		**375**	mg/L	10	04/26/2026 16:36	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**66.7**	µg/L	1	04/23/2026 21:33	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:33	255378
Boron	NELAP	20.0		**27.2**	µg/L	1	04/23/2026 21:33	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:33	255378
Calcium	NELAP	0.100	S	**198**	mg/L	1	04/23/2026 21:33	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:33	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:33	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:33	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:33	255378
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**6.8**	µg/L	5	05/20/2026 14:47	255378
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/15/2026 23:06	255378
Lithium	*	3.0		**4.7**	µg/L	5	05/04/2026 19:17	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/15/2026 23:06	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 23:06	255378
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 17:04	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.430**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-013
Client Sample ID: AP12
Matrix: GROUNDWATER
Collection Date: 04/21/2026 11:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.390**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power **Work Order:** 26041298

Client Project: Ash Pond Monitoring Wells **Report Date:** 22-May-26

Lab ID: 26041298-014 **Client Sample ID:** AP13

Matrix: GROUNDWATER **Collection Date:** 04/21/2026 11:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.00**	ft	1	04/21/2026 11:44	R383248
Depth to water	*	-5.00		**13.64**	ft	1	04/21/2026 11:44	R383248
Depth to water from measuring point	*	0		**17.04**	ft	1	04/21/2026 11:44	R383248
Elevation of groundwater surface	*	0		**524.96**	ft	1	04/21/2026 11:44	R383248
Measuring Point Elevation	*	0		**542.00**	ft	1	04/21/2026 11:44	R383248
Measuring Point Height Above Land Surface	*	0		**3.40**	ft	1	04/21/2026 11:44	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.2**	NTU	1	04/21/2026 11:44	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	04/21/2026 11:44	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.58**		1	04/21/2026 11:44	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**751**	µmhos/cm @25C	1	04/21/2026 11:44	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**642**	mg/L	1	04/23/2026 10:26	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 17:01	R382935
Chloride	NELAP	5.00		**25.1**	mg/L	10	04/26/2026 17:01	R382935
Sulfate	NELAP	10.0		**100**	mg/L	10	04/26/2026 17:01	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**119**	µg/L	1	04/23/2026 21:38	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:38	255378
Boron	NELAP	20.0		**38.8**	µg/L	1	04/23/2026 21:38	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:38	255378
Calcium	NELAP	0.100		**117**	mg/L	1	04/23/2026 21:38	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:38	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:38	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:38	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:38	255378
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**6.4**	µg/L	5	05/20/2026 14:57	255378
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/17/2026 13:37	255378
Lithium	*	3.0		**10.5**	µg/L	5	05/04/2026 19:42	255378
Selenium	NELAP	1.0		**2.9**	µg/L	5	05/09/2026 1:21	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 23:10	255378
Sample result(s) for Se exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 17:11	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.440**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-014
Client Sample ID: AP13
Matrix: GROUNDWATER
Collection Date: 04/21/2026 11:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.380**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-015
Client Sample ID: AP14
Matrix: GROUNDWATER
Collection Date: 04/21/2026 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	04/21/2026 12:35	R383248
Depth to water	*	-5.00		**-0.19**	ft	1	04/21/2026 12:35	R383248
Depth to water from measuring point	*	0		**2.61**	ft	1	04/21/2026 12:35	R383248
Elevation of groundwater surface	*	0		**536.99**	ft	1	04/21/2026 12:35	R383248
Measuring Point Elevation	*	0		**539.60**	ft	1	04/21/2026 12:35	R383248
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	04/21/2026 12:35	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.4**	NTU	1	04/21/2026 12:35	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.6**	°F	1	04/21/2026 12:35	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.91**		1	04/21/2026 12:35	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1510**	µmhos/cm @25C	1	04/21/2026 12:35	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**2200**	mg/L	1	04/23/2026 10:26	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 17:14	R382935
Chloride	NELAP	5.00		**121**	mg/L	10	04/26/2026 17:14	R382935
Sulfate	NELAP	10.0		**1070**	mg/L	10	04/26/2026 17:14	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**52.1**	µg/L	1	04/23/2026 21:47	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:47	255378
Boron	NELAP	200		**25900**	µg/L	10	04/27/2026 15:48	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:47	255378
Calcium	NELAP	0.100		**326**	mg/L	1	04/23/2026 21:47	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:47	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:47	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:47	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:47	255378
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**7.1**	µg/L	5	05/20/2026 15:28	255378
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/15/2026 23:40	255378
Lithium	*	3.0		**7.0**	µg/L	5	05/04/2026 19:47	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/09/2026 1:26	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 23:40	255378
Contamination present in the CCB for Se. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 17:13	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.320**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-015
Client Sample ID: AP14
Matrix: GROUNDWATER
Collection Date: 04/21/2026 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.270**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-016
Client Sample ID: T-01
Matrix: GROUNDWATER
Collection Date: 04/21/2026 12:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**512.70**	ft	1	04/21/2026 12:20	R383248
Depth to water	*	-5.00		**12.49**	ft	1	04/21/2026 12:20	R383248
Depth to water from measuring point	*	0		**12.82**	ft	1	04/21/2026 12:20	R383248
Elevation of groundwater surface	*	0		**522.83**	ft	1	04/21/2026 12:20	R383248
Measuring Point Elevation	*	0		**535.65**	ft	1	04/21/2026 12:20	R383248
Measuring Point Height Above Land Surface	*	0		**0.33**	ft	1	04/21/2026 12:20	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	04/21/2026 12:20	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.8**	°F	1	04/21/2026 12:20	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.34**		1	04/21/2026 12:20	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1270**	µmhos/cm @25C	1	04/21/2026 12:20	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**946**	mg/L	1	04/23/2026 11:13	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 17:26	R382935
Chloride	NELAP	5.00		**233**	mg/L	10	04/26/2026 17:26	R382935
Sulfate	NELAP	10.0		**114**	mg/L	10	04/26/2026 17:26	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**65.7**	µg/L	1	04/23/2026 21:49	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:49	255378
Boron	NELAP	20.0		**214**	µg/L	1	04/23/2026 21:49	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:49	255378
Calcium	NELAP	0.100		**150**	mg/L	1	04/23/2026 21:49	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:49	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:49	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:49	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:49	255378
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**7.1**	µg/L	5	05/20/2026 15:32	255378
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/17/2026 13:44	255378
Lithium	*	3.0		**12.8**	µg/L	5	05/04/2026 19:51	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/09/2026 1:30	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 23:44	255378
Contamination present in the CCB for Se. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 17:15	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.470**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-016
Client Sample ID: T-01
Matrix: GROUNDWATER
Collection Date: 04/21/2026 12:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.410**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-017
Client Sample ID: T-02
Matrix: GROUNDWATER
Collection Date: 04/21/2026 10:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.18**	ft	1	04/21/2026 10:34	R383248
Depth to water	*	-5.00		**23.36**	ft	1	04/21/2026 10:34	R383248
Depth to water from measuring point	*	0		**25.76**	ft	1	04/21/2026 10:34	R383248
Elevation of groundwater surface	*	0		**523.86**	ft	1	04/21/2026 10:34	R383248
Measuring Point Elevation	*	0		**549.62**	ft	1	04/21/2026 10:34	R383248
Measuring Point Height Above Land Surface	*	0		**2.40**	ft	1	04/21/2026 10:34	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.3**	NTU	1	04/21/2026 10:34	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	04/21/2026 10:34	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.37**		1	04/21/2026 10:34	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1910**	µmhos/cm @25C	1	04/21/2026 10:34	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1780**	mg/L	1	04/23/2026 11:13	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 18:04	R382935
Chloride	NELAP	5.00		**535**	mg/L	10	04/26/2026 18:04	R382935
Sulfate	NELAP	10.0		**138**	mg/L	10	04/26/2026 18:04	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**226**	µg/L	1	04/23/2026 22:12	255376
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 22:12	255376
Boron	NELAP	20.0		**55.0**	µg/L	1	04/23/2026 22:12	255376
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 22:12	255376
Calcium	NELAP	0.100		**242**	mg/L	1	04/23/2026 22:12	255376
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:12	255376
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:12	255376
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 22:12	255376
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 22:12	255376
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:10	255376
Arsenic	NELAP	1.0		**4.3**	µg/L	5	05/01/2026 23:10	255376
Lithium	*	3.0		**37.2**	µg/L	5	05/01/2026 23:10	255376
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:10	255376
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/01/2026 23:10	255376
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 17:17	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Combined 226/228 Uncertainty	*	0		**0.140**	+/-	1	05/05/2026 8:35	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/05/2026 8:35	R384223
Radium-226 Uncertainty	*	0		**0.100**	+/-	1	05/05/2026 8:35	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/04/2026 13:02	R384223
Radium-228 Uncertainty	*	0		**0.400**	+/-	1	05/04/2026 13:02	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-018
Client Sample ID: T-04
Matrix: GROUNDWATER
Collection Date: 04/21/2026 10:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**521.52**	ft	1	04/21/2026 10:24	R383248
Depth to water	*	-5.00		**16.27**	ft	1	04/21/2026 10:24	R383248
Depth to water from measuring point	*	0		**18.65**	ft	1	04/21/2026 10:24	R383248
Elevation of groundwater surface	*	0		**530.29**	ft	1	04/21/2026 10:24	R383248
Measuring Point Elevation	*	0		**548.94**	ft	1	04/21/2026 10:24	R383248
Measuring Point Height Above Land Surface	*	0		**2.38**	ft	1	04/21/2026 10:24	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**12**	NTU	1	04/21/2026 10:24	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	04/21/2026 10:24	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	04/21/2026 10:24	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**479**	µmhos/cm @25C	1	04/21/2026 10:24	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**554**	mg/L	1	04/23/2026 11:13	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 18:17	R382935
Chloride	NELAP	5.00		**ND**	mg/L	10	04/26/2026 18:17	R382935
Sulfate	NELAP	10.0		**127**	mg/L	10	04/26/2026 18:17	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**54.9**	µg/L	1	04/23/2026 22:14	255376
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 22:14	255376
Boron	NELAP	20.0		**63.8**	µg/L	1	04/23/2026 22:14	255376
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 22:14	255376
Calcium	NELAP	0.100	S	**96.1**	mg/L	1	04/23/2026 22:14	255376
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:14	255376
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:14	255376
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 22:14	255376
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 22:14	255376
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:13	255376
Arsenic	NELAP	1.0		**4.9**	µg/L	5	05/01/2026 23:13	255376
Lithium	*	3.0		**16.3**	µg/L	5	05/01/2026 23:13	255376
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:13	255376
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/01/2026 23:13	255376
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:15	255467
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/06/2026 6:28	R384223
Combined 226/228 Uncertainty	*	0		**0.660**	+/-	1	05/06/2026 6:28	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/06/2026 6:28	R384223
Radium-226 Uncertainty	*	0		**0.090**	+/-	1	05/06/2026 6:28	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/05/2026 13:50	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-018
Client Sample ID: T-04
Matrix: GROUNDWATER
Collection Date: 04/21/2026 10:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.570**	+/-	1	05/05/2026 13:50	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-019
Client Sample ID: T-05
Matrix: GROUNDWATER
Collection Date: 04/21/2026 10:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**518.32**	ft	1	04/21/2026 10:40	R383248
Depth to water	*	-5.00		**3.53**	ft	1	04/21/2026 10:40	R383248
Depth to water from measuring point	*	0		**6.04**	ft	1	04/21/2026 10:40	R383248
Elevation of groundwater surface	*	0		**534.62**	ft	1	04/21/2026 10:40	R383248
Measuring Point Elevation	*	0		**540.66**	ft	1	04/21/2026 10:40	R383248
Measuring Point Height Above Land Surface	*	0		**2.51**	ft	1	04/21/2026 10:40	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**15**	NTU	1	04/21/2026 10:40	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.3**	°F	1	04/21/2026 10:40	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.62**		1	04/21/2026 10:40	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**341**	µmhos/cm @25C	1	04/21/2026 10:40	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**344**	mg/L	1	04/23/2026 11:13	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 18:30	R382935
Chloride	NELAP	5.00		**ND**	mg/L	10	04/26/2026 18:30	R382935
Sulfate	NELAP	10.0		**39.3**	mg/L	10	04/26/2026 18:30	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**51.7**	µg/L	1	04/23/2026 22:19	255376
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 22:19	255376
Boron	NELAP	20.0		**74.5**	µg/L	1	04/23/2026 22:19	255376
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 22:19	255376
Calcium	NELAP	0.100		**58.6**	mg/L	1	04/23/2026 22:19	255376
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:19	255376
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 22:19	255376
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 22:19	255376
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 22:19	255376
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:21	255376
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/01/2026 23:21	255376
Lithium	*	3.0		**8.7**	µg/L	5	05/01/2026 23:21	255376
Selenium	NELAP	1.0		**2.3**	µg/L	5	05/01/2026 23:21	255376
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/01/2026 23:21	255376
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 17:19	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/06/2026 6:28	R384223
Combined 226/228 Uncertainty	*	0		**0.650**	+/-	1	05/06/2026 6:28	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/06/2026 6:28	R384223
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	05/06/2026 6:28	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/05/2026 13:50	R384223
Radium-228 Uncertainty	*	0		**0.580**	+/-	1	05/05/2026 13:50	R384223

Client: City Water, Light & Power **Work Order:** 26041298

Client Project: Ash Pond Monitoring Wells **Report Date:** 22-May-26

Lab ID: 26041298-020 **Client Sample ID:** T-06

Matrix: GROUNDWATER **Collection Date:** 04/21/2026 10:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**494.70**	ft	1	04/21/2026 10:54	R383248
Depth to water	*	-5.00		**9.62**	ft	1	04/21/2026 10:54	R383248
Depth to water from measuring point	*	0		**11.98**	ft	1	04/21/2026 10:54	R383248
Elevation of groundwater surface	*	0		**526.34**	ft	1	04/21/2026 10:54	R383248
Measuring Point Elevation	*	0		**538.32**	ft	1	04/21/2026 10:54	R383248
Measuring Point Height Above Land Surface	*	0		**2.36**	ft	1	04/21/2026 10:54	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.9**	NTU	1	04/21/2026 10:54	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.6**	°F	1	04/21/2026 10:54	R383248
SW-846 9040B								
pH, Field	*	1.00		**7.06**		1	04/21/2026 10:54	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**653**	µmhos/cm @25C	1	04/21/2026 10:54	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**584**	mg/L	1	04/23/2026 12:08	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 18:42	R382935
Chloride	NELAP	5.00		**19.6**	mg/L	10	04/26/2026 18:42	R382935
Sulfate	NELAP	10.0		**ND**	mg/L	10	04/26/2026 18:42	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**322**	µg/L	1	04/23/2026 21:50	255378
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 21:50	255378
Boron	NELAP	20.0		**220**	µg/L	1	04/23/2026 21:50	255378
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 21:50	255378
Calcium	NELAP	0.100	S	**97.2**	mg/L	1	04/23/2026 21:50	255378
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:50	255378
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 21:50	255378
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 21:50	255378
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 21:50	255378
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**7.0**	µg/L	5	05/20/2026 15:36	255378
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/15/2026 23:53	255378
Lithium	*	3.0		**7.2**	µg/L	5	05/04/2026 19:55	255378
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/15/2026 23:53	255378
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/15/2026 23:53	255378
Contamination present in the MBLK for As. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/22/2026 17:21	255394
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/06/2026 6:28	R384223
Combined 226/228 Uncertainty	*	0		**0.770**	+/-	1	05/06/2026 6:28	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/06/2026 6:28	R384223
Radium-226 Uncertainty	*	0		**0.110**	+/-	1	05/06/2026 6:28	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-020
Client Sample ID: T-06
Matrix: GROUNDWATER
Collection Date: 04/21/2026 10:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**ND**	pci/L	1	05/05/2026 13:50	R384223
Radium-228 Uncertainty	*	0		**0.660**	+/-	1	05/05/2026 13:50	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-021
Client Sample ID: AW-1
Matrix: GROUNDWATER
Collection Date: 04/23/2026 10:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	04/23/2026 10:02	R383248
Depth to water	*	-5.00		**12.21**	ft	1	04/23/2026 10:02	R383248
Depth to water from measuring point	*	0		**14.96**	ft	1	04/23/2026 10:02	R383248
Elevation of groundwater surface	*	0		**540.64**	ft	1	04/23/2026 10:02	R383248
Measuring Point Elevation	*	0		**555.60**	ft	1	04/23/2026 10:02	R383248
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	04/23/2026 10:02	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**63**	NTU	1	04/23/2026 10:02	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.6**	°F	1	04/23/2026 10:02	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.72**		1	04/23/2026 10:02	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1290**	µmhos/cm @25C	1	04/23/2026 10:02	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1180**	mg/L	1	04/27/2026 9:30	R383124
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 19:33	R382935
Chloride	NELAP	5.00		**36.5**	mg/L	10	04/26/2026 19:33	R382935
Sulfate	NELAP	10.0		**394**	mg/L	10	04/26/2026 19:33	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**118**	µg/L	1	05/01/2026 12:12	255531
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 12:12	255531
Boron	NELAP	20.0		**10500**	µg/L	1	05/01/2026 12:12	255531
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 12:12	255531
Calcium	NELAP	0.100		**195**	mg/L	1	04/27/2026 17:55	255531
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:12	255531
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:12	255531
Lead	NELAP	7.5		**< 7.5**	µg/L	1	05/01/2026 12:12	255531
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 12:12	255531
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/13/2026 18:02	255531
Arsenic	NELAP	1.0		**20.2**	µg/L	5	05/13/2026 18:02	255531
Lithium	*	3.0		**11.9**	µg/L	5	05/04/2026 23:14	255531
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/13/2026 18:02	255531
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/14/2026 23:40	255531
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/27/2026 16:19	255547
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	05/06/2026 6:28	R384223
Combined 226/228 Uncertainty	*	0		**0.640**	+/-	1	05/06/2026 6:28	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/06/2026 6:28	R384223
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	05/06/2026 6:28	R384223
Radium-228	*	1.00		**ND**	pci/L	1	05/05/2026 13:50	R384223
Radium-228 Uncertainty	*	0		**0.580**	+/-	1	05/05/2026 13:50	R384223

Client: City Water, Light & Power
Work Order: 26041298
Client Project: Ash Pond Monitoring Wells
Report Date: 22-May-26
Lab ID: 26041298-022
Client Sample ID: G120
Matrix: GROUNDWATER
Collection Date: 04/22/2026 10:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	04/22/2026 10:23	R383248
Depth to water	*	-5.00		**16.43**	ft	1	04/22/2026 10:23	R383248
Depth to water from measuring point	*	0		**16.43**	ft	1	04/22/2026 10:23	R383248
Elevation of groundwater surface	*	0		**536.67**	ft	1	04/22/2026 10:23	R383248
Measuring Point Elevation	*	0		**553.10**	ft	1	04/22/2026 10:23	R383248
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	04/22/2026 10:23	R383248
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**83**	NTU	1	04/22/2026 10:23	R383248
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.8**	°F	1	04/22/2026 10:23	R383248
SW-846 9040B								
pH, Field	*	1.00		**6.69**		1	04/22/2026 10:23	R383248
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1780**	µmhos/cm @25C	1	04/22/2026 10:23	R383248
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1630**	mg/L	1	04/23/2026 12:08	R382858
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 19:46	R382935
Chloride	NELAP	5.00		**36.0**	mg/L	10	04/26/2026 19:46	R382935
Sulfate	NELAP	10.0		**559**	mg/L	10	04/26/2026 19:46	R382935
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**502**	µg/L	1	04/23/2026 18:59	255438
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/23/2026 18:59	255438
Boron	NELAP	20.0		**7190**	µg/L	1	04/23/2026 18:59	255438
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/23/2026 18:59	255438
Calcium	NELAP	0.100		**250**	mg/L	1	04/23/2026 18:59	255438
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 18:59	255438
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/23/2026 18:59	255438
Lead	NELAP	7.5		**< 7.5**	µg/L	1	04/23/2026 18:59	255438
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	04/23/2026 18:59	255438
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**13.7**	µg/L	5	05/18/2026 20:45	256647
Arsenic	NELAP	1.0		**10.6**	µg/L	5	05/03/2026 18:03	255438
Lithium	*	3.0		**7.5**	µg/L	5	05/14/2026 9:12	255438
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	05/03/2026 18:03	255438
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/03/2026 18:03	255438
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:21	255467
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**2.72**	pci/L	1	05/06/2026 6:28	R384223
Combined 226/228 Uncertainty	*	0		**0.930**	+/-	1	05/06/2026 6:28	R384223
Radium-226	*	1.00		**ND**	pci/L	1	05/06/2026 6:28	R384223
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	05/06/2026 6:28	R384223
Radium-228	*	1.00		**2.72**	pci/L	1	05/05/2026 13:50	R384223
Radium-228 Uncertainty	*	0		**0.860**	+/-	1	05/05/2026 13:50	R384223

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26041298
Report Date: 22-May-26

Carrier: Allison Lampe

Received By: LEH

Completed by: Laura E Henson
On: 22-Apr-26

Reviewed by: Allison Simpson
On: 23-Apr-26

Pages to follow: Chain of custody 5 Extra pages included 70

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 2.4
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #104524. - lhenson - 4/22/2026 8:51:31 AM

Additional nitric acid (109879) was needed for T-04 and T-06 upon arrival at the laboratory. - lhenson - 4/22/2026 8:56:15 AM

Samples were received on 4/22/2026 at 14:57 on ice [10.4C, 13.6, 12.8 - LTG#9]. pH strip #104524. Additional nitric acid (109879) was needed for 2 of 3 1L AP10 and G120 upon arrival at the laboratory. - ekossakoski - 4/22/2026 4:03:50 PM

Samples were received on 4/23/2026 at 13:04 on ice [18.4C - LTG#9]. pH strip #104524. - CRS/ekossakoski - 4/23/2026 2:27:28 PM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 26041298

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

5-2|4.4

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE 2.4|0.2°C9

Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY

LAB NOTES: PW 104524

added HNO3 (109879) to T04, T06 LH 4/22/26

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:

*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26041298-001	RW-3		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
003	AP-2	4-21 1227	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
004	AP-3	4-21 1302	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
005	AP-4	4-21 959	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
006	AP-5	4-21 1200	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
007	AP-6	4-21 1117	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
008	AP-7	4-21 1117	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
009	AP-8	4-21 1156	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
010	AP-9	4-21 950	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
011	AP10		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
[signature]	4-21-26 1450	[signature]	4/21/26 1450

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 26041298

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

10.4, 13.6

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 12.8 °C 9
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: pH√ 104524 Added HNO3 (109879) to 2/3 IL APID: 6120 - EAF 4/22/26

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26041298-001	RW-3	4-22 1107	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
002	AP-1	4-22 1043	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
003	AP-2		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
004	AP-3		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
006	AP-5		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
007	AP-6		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
008	AP-7		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
010	AP-9		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
011	AP10	4-22 1017	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	4/22/26 1457	Cindy Kamakasli	4/22/26 1457

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 26041298

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26041298-012	AP11	4-21 1000	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
013	AP12	4-21 1115	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
014	AP13	4-21 1144	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
015	AP14	4-21 1235	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
016	T-01	4-21 1220	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
017	T-02	4-21 1034	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
018	T-04	4-21 1024	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
019	T-05	4-21 1040	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
020	T-06	4-21 1054	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
021	AW-1		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
022	G120		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Allen Lane	4-21-26 1450	[signature]	4/21/26 1450

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 26041298

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 18.4 °C #9
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: PHV 104524 CRS 4.23.26

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	CI F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26041298-012	AP11		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
013	AP12		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
014	AP13		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
015	AP14		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
016	T-01		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
017	T-02		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
018	T-04		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
019	T-05		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
020	T-06		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
021	AW-1	4-23 1002	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
022	G120		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	4-23-26 1304	Caroline Spencer	4-23-26 1304

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 26041298

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26041298-012	AP11		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
013	AP12		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
014	AP13		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
015	AP14		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
016	T-01		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
017	T-02		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
018	T-04		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
019	T-05		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
020	T-06		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
021	AW-1		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
022	G120	4-22 1023	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	4/22/26 1457	Cindy Kovakovski	4/22/26 1457

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Alliance Technical Group - Akron
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May 17, 2026

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 26041298

Order No.: 26042100

Dear Shelly Hennessy:

Alliance Technical Group - Akron received 22 sample(s) on 4/27/2026 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **26042100**
Date: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298

WorkOrder Narrative:
26042100: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence Sample Notes:
26042100-001A Radium-228_NPW(904.0): Parent sample and duplicate exhibit a high RPD, results are below reporting limit and do not need reanalysis.

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Qualifiers and Acronyms

WO#: **26042100**
Date: **5/17/2026**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **26042100**

17-May-26

CLIENT: TEKLAB Inc,
Project: 26041298

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
26042100-001	26041298-001		4/22/2026 11:07:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-002	26041298-002		4/22/2026 10:43:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-003	26041298-003		4/21/2026 12:27:00 PM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-004	26041298-004		4/21/2026 1:02:00 PM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-005	26041298-005		4/21/2026 9:59:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-006	26041298-006		4/21/2026 12:00:00 PM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-007	26041298-007		4/21/2026 11:17:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-008	26041298-008		4/21/2026 11:17:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-009	26041298-009		4/21/2026 11:56:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-010	26041298-010		4/21/2026 9:50:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-011	26041298-011		4/22/2026 10:17:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-012	26041298-012		4/21/2026 10:00:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-013	26041298-013		4/21/2026 11:15:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-014	26041298-014		4/21/2026 11:44:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-015	26041298-015		4/21/2026 12:35:00 PM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-016	26041298-016		4/21/2026 12:20:00 PM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-017	26041298-017		4/21/2026 10:34:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-018	26041298-018		4/21/2026 10:24:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-019	26041298-019		4/21/2026 10:40:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-020	26041298-020		4/21/2026 10:54:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-021	26041298-021		4/23/2026 10:02:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water
26042100-022	26041298-022		4/22/2026 10:23:00 AM	4/27/2026 11:00:00 AM	Non-Potable Water

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DATES REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26042100-001A	26041298-001	4/22/2026 11:07:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-002A	26041298-002	4/22/2026 10:43:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-003A	26041298-003	4/21/2026 12:27:00 PM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-004A	26041298-004	4/21/2026 1:02:00 PM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-005A	26041298-005	4/21/2026 9:59:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-006A	26041298-006	4/21/2026 12:00:00 PM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-007A	26041298-007	4/21/2026 11:17:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-008A	26041298-008			Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM

Original

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DATES REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26042100-008A	26041298-008	4/21/2026 11:17:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-009A	26041298-009	4/21/2026 11:56:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-010A	26041298-010	4/21/2026 9:50:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-011A	26041298-011	4/22/2026 10:17:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-012A	26041298-012	4/21/2026 10:00:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-013A	26041298-013	4/21/2026 11:15:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-014A	26041298-014	4/21/2026 11:44:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-015A	26041298-015	4/21/2026 12:35:00 PM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-016A	26041298-016	4/21/2026 12:20:00 PM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM

Original

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DATES REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26042100-016A	26041298-016	4/21/2026 12:20:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-017A	26041298-017	4/21/2026 10:34:00 AM		Combined Radium (EPA903+904)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 10:24:38 AM	5/5/2026 8:35:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 10:24:38 AM	5/4/2026 1:02:00 PM
26042100-018A	26041298-018	4/21/2026 10:24:00 AM		Combined Radium (EPA903+904)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 1:20:56 PM	5/5/2026 1:50:00 PM
26042100-019A	26041298-019	4/21/2026 10:40:00 AM		Combined Radium (EPA903+904)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 1:20:56 PM	5/5/2026 1:50:00 PM
26042100-020A	26041298-020	4/21/2026 10:54:00 AM		Combined Radium (EPA903+904)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 1:20:56 PM	5/5/2026 1:50:00 PM
26042100-021A	26041298-021	4/23/2026 10:02:00 AM		Combined Radium (EPA903+904)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 1:20:56 PM	5/5/2026 1:50:00 PM
26042100-022A	26041298-022	4/22/2026 10:23:00 AM		Combined Radium (EPA903+904)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-226 (EPA 903.0)		4/29/2026 1:20:56 PM	5/6/2026 6:28:00 AM
				Radium-228 (EPA 904.0)		4/29/2026 1:20:56 PM	5/5/2026 1:50:00 PM

Original

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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-001
Client Sample ID: 26041298-001

Collection Date: 4/22/2026 11:07:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.310	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	5/5/2026 8:35:00 AM
Yield	1.00					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00	QDR	pCi/L	± 0.260	1	5/4/2026 1:02:00 PM
Yield	0.990					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-002
Client Sample ID: 26041298-002

Collection Date: 4/22/2026 10:43:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.490	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	5/5/2026 8:35:00 AM
Yield	0.990					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.420	1	5/4/2026 1:02:00 PM
Yield	1.00					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-003
Client Sample ID: 26041298-003

Collection Date: 4/21/2026 12:27:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.460	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0400	1	5/5/2026 8:35:00 AM
Yield	0.960					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.420	1	5/4/2026 1:02:00 PM
Yield	0.860					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-004
Client Sample ID: 26041298-004

Collection Date: 4/21/2026 1:02:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	2.45	2.00		pCi/L	± 0.650	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	5/5/2026 8:35:00 AM
Yield	0.980					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	2.45	1.00		pCi/L	± 0.590	1	5/4/2026 1:02:00 PM
Yield	0.990					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-005
Client Sample ID: 26041298-005

Collection Date: 4/21/2026 9:59:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.550	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	5/5/2026 8:35:00 AM
Yield	0.970					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	1.23	1.00		pCi/L	± 0.480	1	5/4/2026 1:02:00 PM
Yield	0.940					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-006
Client Sample ID: 26041298-006

Collection Date: 4/21/2026 12:00:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.340	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0400	1	5/5/2026 8:35:00 AM
Yield	1.00					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.300	1	5/4/2026 1:02:00 PM
Yield	0.990					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-007
Client Sample ID: 26041298-007

Collection Date: 4/21/2026 11:17:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.250	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0400	1	5/5/2026 8:35:00 AM
Yield	1.00					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.210	1	5/4/2026 1:02:00 PM
Yield	1.00					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-008
Client Sample ID: 26041298-008

Collection Date: 4/21/2026 11:17:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.460	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	5/5/2026 8:35:00 AM
Yield	0.930					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.410	1	5/4/2026 1:02:00 PM
Yield	0.770					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-009
Client Sample ID: 26041298-009

Collection Date: 4/21/2026 11:56:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.480	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	5/5/2026 8:35:00 AM
Yield	1.00					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.420	1	5/4/2026 1:02:00 PM
Yield	1.00					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-010
Client Sample ID: 26041298-010

Collection Date: 4/21/2026 9:50:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.450	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	5/5/2026 8:35:00 AM
Yield	1.00					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.370	1	5/4/2026 1:02:00 PM
Yield	1.00					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-011
Client Sample ID: 26041298-011

Collection Date: 4/22/2026 10:17:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.470	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	5/5/2026 8:35:00 AM
Yield	0.990					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.380	1	5/4/2026 1:02:00 PM
Yield	0.940					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,

Collection Date: 4/21/2026 10:00:00 AM

Project: 26041298

Lab ID: 26042100-012

Matrix: NON-POTABLE WATER

Client Sample ID: 26041298-012

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **OS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.370	1	5/5/2026 8:35:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **OS**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0300	1	5/5/2026 8:35:00 AM
Yield	1.00					1	5/5/2026 8:35:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **OS**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.340	1	5/4/2026 1:02:00 PM
Yield	1.00					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-013
Client Sample ID: 26041298-013

Collection Date: 4/21/2026 11:15:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.430	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0400	1	5/5/2026 8:35:00 AM
Yield	0.980					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.390	1	5/4/2026 1:02:00 PM
Yield	0.980					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-014
Client Sample ID: 26041298-014

Collection Date: 4/21/2026 11:44:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.440	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	5/5/2026 8:35:00 AM
Yield	0.930					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.380	1	5/4/2026 1:02:00 PM
Yield	0.920					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-015
Client Sample ID: 26041298-015

Collection Date: 4/21/2026 12:35:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.320	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	5/5/2026 8:35:00 AM
Yield	0.990					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.270	1	5/4/2026 1:02:00 PM
Yield	0.990					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

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WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-016
Client Sample ID: 26041298-016

Collection Date: 4/21/2026 12:20:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.470	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	5/5/2026 8:35:00 AM
Yield	0.890					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.410	1	5/4/2026 1:02:00 PM
Yield	0.870					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-017
Client Sample ID: 26041298-017

Collection Date: 4/21/2026 10:34:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **OS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.140	1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **OS**
Radium-226	ND	1.00		pCi/L	± 0.100	1	5/5/2026 8:35:00 AM
Yield	0.970					1	5/5/2026 8:35:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **OS**
Radium-228	ND	1.00		pCi/L	± 0.400	1	5/4/2026 1:02:00 PM
Yield	0.980					1	5/4/2026 1:02:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-018
Client Sample ID: 26041298-018

Collection Date: 4/21/2026 10:24:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.660	1	5/6/2026 6:28:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0900	1	5/6/2026 6:28:00 AM
Yield	1.00					1	5/6/2026 6:28:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.570	1	5/5/2026 1:50:00 PM
Yield	1.00					1	5/5/2026 1:50:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-019
Client Sample ID: 26041298-019

Collection Date: 4/21/2026 10:40:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.650	1	5/6/2026 6:28:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	5/6/2026 6:28:00 AM
Yield	1.00					1	5/6/2026 6:28:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.580	1	5/5/2026 1:50:00 PM
Yield	0.970					1	5/5/2026 1:50:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-020
Client Sample ID: 26041298-020

Collection Date: 4/21/2026 10:54:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.770	1	5/6/2026 6:28:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.110	1	5/6/2026 6:28:00 AM
Yield	1.00					1	5/6/2026 6:28:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.660	1	5/5/2026 1:50:00 PM
Yield	0.900					1	5/5/2026 1:50:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-021
Client Sample ID: 26041298-021

Collection Date: 4/23/2026 10:02:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.640	1	5/6/2026 6:28:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0600	1	5/6/2026 6:28:00 AM
Yield	1.00					1	5/6/2026 6:28:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.580	1	5/5/2026 1:50:00 PM
Yield	1.00					1	5/5/2026 1:50:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26042100**

Date Reported: **5/17/2026**

CLIENT: TEKLAB Inc,
Project: 26041298
Lab ID: 26042100-022
Client Sample ID: 26041298-022

Collection Date: 4/22/2026 10:23:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	2.72	2.00		pCi/L	± 0.930	1	5/6/2026 6:28:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	5/6/2026 6:28:00 AM
Yield	1.00					1	5/6/2026 6:28:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	2.72	1.00		pCi/L	± 0.860	1	5/5/2026 1:50:00 PM
Yield	1.00					1	5/5/2026 1:50:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96083**

Sample ID: **26042100-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235795**
Client ID: **26041298-001** Batch ID: **96083** TestNo: **E904.0** **E903-904** Analysis Date: **5/4/2026** SeqNo: **6182396**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	0.980			0	0			0.9900	1.02		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96083**

Sample ID: **MB-96083**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **4/29/2026**	RunNo: **235795**
Client ID: **BatchQC**	Batch ID: **96083**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/4/2026**	SeqNo: **6182386**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.890			0	0						

Sample ID: **LCS-96083**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **4/29/2026**	RunNo: **235795**
Client ID: **BatchQC**	Batch ID: **96083**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/4/2026**	SeqNo: **6182387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.67	1.00	5.000	0	73.4	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-96083**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **4/29/2026**	RunNo: **235795**
Client ID: **BatchQC**	Batch ID: **96083**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/4/2026**	SeqNo: **6182388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.45	1.00	5.000	0	69.0	50	130	3.670	6.18	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96083**

Sample ID: **26042017-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235795**
Client ID: **BatchQC** Batch ID: **96083** TestNo: **E904.0** **E903-904** Analysis Date: **5/4/2026** SeqNo: **6182394**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.990			0	0			0.8700	12.9		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96083**

Sample ID: **26042100-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235811**
Client ID: **26041298-001** Batch ID: **96083** TestNo: **E903.0** **E903-904** Analysis Date: **5/5/2026** SeqNo: **6182734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96083**

Sample ID: **MB-96083** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235811**
Client ID: **BatchQC** Batch ID: **96083** TestNo: **E903.0** **E903-904** Analysis Date: **5/5/2026** SeqNo: **6182725**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-96083** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235811**
Client ID: **BatchQC** Batch ID: **96083** TestNo: **E903.0** **E903-904** Analysis Date: **5/5/2026** SeqNo: **6182726**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.05	1.00	5.000	0	101	70	130				

Sample ID: **LCSD-96083** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235811**
Client ID: **BatchQC** Batch ID: **96083** TestNo: **E903.0** **E903-904** Analysis Date: **5/5/2026** SeqNo: **6182727**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.04	1.00	5.000	0	101	70	130	5.050	0.198	20	

Sample ID: **26042017-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235811**
Client ID: **BatchQC** Batch ID: **96083** TestNo: **E903.0** **E903-904** Analysis Date: **5/5/2026** SeqNo: **6182732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96083**

Sample ID: **26042017-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235811**
Client ID: **BatchQC** Batch ID: **96083** TestNo: **E903.0** **E903-904** Analysis Date: **5/5/2026** SeqNo: **6182732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96084**

Sample ID: **MB-96084**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **4/29/2026**	RunNo: **235814**
Client ID: **BatchQC**	Batch ID: **96084**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/5/2026**	SeqNo: **6182830**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-96084**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **4/29/2026**	RunNo: **235814**
Client ID: **BatchQC**	Batch ID: **96084**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/5/2026**	SeqNo: **6182831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.80	1.00	5.000	0	76.0	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-96084**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **4/29/2026**	RunNo: **235814**
Client ID: **BatchQC**	Batch ID: **96084**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/5/2026**	SeqNo: **6182832**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.86	1.00	5.000	0	57.2	50	130	3.800	28.2	20	R
Yield	0.940			0	0			1.000	6.19		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96084**

Sample ID: **26042103-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235814**
Client ID: **BatchQC** Batch ID: **96084** TestNo: **E904.0** **E903-904** Analysis Date: **5/5/2026** SeqNo: **6182842**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.18	1.00		0	0			3.320	4.31	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96084**

Sample ID: **MB-96084** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235827**
Client ID: **BatchQC** Batch ID: **96084** TestNo: **E903.0** **E903-904** Analysis Date: **5/6/2026** SeqNo: **6183217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-96084** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235827**
Client ID: **BatchQC** Batch ID: **96084** TestNo: **E903.0** **E903-904** Analysis Date: **5/6/2026** SeqNo: **6183218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.84	1.00	5.000	0	117	70	130				

Sample ID: **LCSD-96084** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235827**
Client ID: **BatchQC** Batch ID: **96084** TestNo: **E903.0** **E903-904** Analysis Date: **5/6/2026** SeqNo: **6183219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.03	1.00	5.000	0	101	70	130	5.840	14.9	20	

Sample ID: **26042103-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235827**
Client ID: **BatchQC** Batch ID: **96084** TestNo: **E903.0** **E903-904** Analysis Date: **5/6/2026** SeqNo: **6183229**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26042100**

17-May-26

Client: TEKLAB Inc,
Project: 26041298 **BatchID:** **96084**

Sample ID: **26042103-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235827**
Client ID: **BatchQC** Batch ID: **96084** TestNo: **E903.0** **E903-904** Analysis Date: **5/6/2026** SeqNo: **6183229**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **26042103-002ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/29/2026** RunNo: **235827**
Client ID: **BatchQC** Batch ID: **96084** TestNo: **E903.0** **E903-904** Analysis Date: **5/6/2026** SeqNo: **6183231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

26042100

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab | QC Level: 2

Project# 26041298

Contact: Shelly Hennessy | Email: shennessy@TekLabInc.com

Requested Due Date: Standard TAT | Billing/PO: 40966 | Phone: (618) 344-1004 ext 1024

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per 903/904 methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = IL

LOI
PH: 2, 2, 2
CPM: 24, 18, 22

In:
PH: 2, 2, 2
CPM: 25, 24, 24

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Combined Radium			PH	CPM			PH	CPM	PH	CPM
	26041298-001	4/22/2026 11:07	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	28	☐	☐	1	20	1	18
	26041298-002	4/22/2026 10:43	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	24	☐	☐	1	18	1	20
	26041298-003	4/21/2026 12:27	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	30	☐	☐	1	34	1	18
	26041298-004	4/21/2026 13:02	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	28	☐	☐	2	36	1	16
	26041298-005	4/21/2026 9:59	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	26	☐	☐	2	26	1	26
	26041298-006	4/21/2026 12:00	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	24	☐	☐	2	32	1	38
	26041298-007	4/21/2026 11:17	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	50	☐	☐	1	30	1	18
	26041298-008	4/21/2026 11:17	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	24	☐	☐	1	20	2	22
	26041298-009	4/21/2026 11:56	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	28	☐	☐	1	24	1	26
	26041298-010	4/21/2026 9:50	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐			☐	☐				
	26041298-011	4/22/2026 10:17	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐			☐	☐				

*Relinquished By	Date/Time	Received By	Date/Time
Emily Kassakatsi	4/23/26 1700	Paige Joiner	4/27/26 11:00

Fridge Temp 20.4°C (22.5-0.1)

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state, and federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevB
1/12/2026

26042100

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab | QC Level: 2

Project# 26041298

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per 903/904 methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = IL

Contact: Shelly Hennessy | Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 40966 | Phone: (618) 344-1004 ext 1024

13: PH: 1, 1, 1 CPM: 16, 20, 24
12: PH: 1, 1, 1 CPM: 22, 23, 32

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Combined Radium			PH	CPM			PH	CPM	PH	CPM
	26041298-012	4/21/2026 10:00	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	26	☐	☐	1	24	2	26
	26041298-013	4/21/2026 11:15	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	28	☐	☐	1	20	2	28
	26041298-014	4/21/2026 11:44	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	23	☐	☐	1	30	2	24
	26041298-015	4/21/2026 12:35	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	8	☐	☐	1	20	1	28
	26041298-016	4/21/2026 12:20	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	26	☐	☐	1	38	1	26
	26041298-017	4/21/2026 10:34	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	36	☐	☐	1	22	1	32
	26041298-018	4/21/2026 10:24	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	22	☐	☐	1	22	1	16
	26041298-019	4/21/2026 10:40	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	26	☐	☐	1	22	1	20
	26041298-020	4/21/2026 10:54	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	2	24	☐	☐	1	14	1	15
	26041298-021	4/23/2026 10:02	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐			☐	☐				
	26041298-022	4/22/2026 10:23	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐			☐	☐				

22 21 20 19 18 17 16 15 14

*Relinquished By	Date/Time	Received By	Date/Time
Cody Kasselaak	4/23/26 1700	Paige Cyenier	4/27/26 11:00

Temp. 20.4°C (20.5-0.1)

Fed X

CS: 412 3126

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SubCocRevB 1/12/2026

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **26042100** RcptNo: **1**

Logged by:	**Paige J. Yerick**	**4/27/2026 11:00:00 AM**
Completed By:	**Paige J. Yerick**	**4/28/2026 11:53:17 AM**
Reviewed By:	**Jennifer Woolf**	**5/1/2026 12:33:15 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. 9066 Seal Date: 4/23/2026 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.4	Good	Yes		4/23/2026	

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	RW-3
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	26041298	**Date (s):**	4/22/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/22/26 10:47 AM

Static Water Level: 9.98 feet below TOC

Total Depth: 44.01 feet below TOC

Water Column: 34.03 feet

Purging Activities

Purged By: DC Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 34.03 ft. x 0.022 = 0.75 L x 3 Vol. = 2.25 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:47	0.0	250	purge start time						
10:55	2.0	↓	7.04	646.80	14.24	1.23	-54.00	5.91	
10:58	2.8		7.02	645.20	14.21	1.12	-59.10	7.09	
11:01	3.5		7.00	646.20	14.37	1.06	-63.70	9.19	
11:04	4.3		6.98	647.90	14.30	1.01	-69.40	9.09	
11:07	5.0		6.97	649.70	14.37	0.97	-75.60	13.19	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/22/2026 11:07

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.97 pH 649.70 Spec. Cond. 14.37 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 10.56 feet below TOC Drawdown: 0.58 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/22/2026

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 26041298
Monitoring Point: AP-1
Sample ID: 002
Date (s): 4/22/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F — Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/22/26 10:28 AM
Static Water Level: 9.75 feet below TOC
Total Depth: 31.08 feet below TOC
Water Column: 21.33 feet

Purging Activities

Purged By: JC — Purge Date: 4/22/2026
Purge Method: Low Flow — Well Diameter: 2"
Purge Volume Calculation (L): 21.33 ft. x 0.022 = 0.47 L x 3 Vol. = 1.41 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:29	0.0	250	purge start time						
10:34	1.3	↓	6.55	1,158.50	15.01	1.62	-65.50	6.95	
10:37	2.0		6.54	1,169.20	15.08	1.19	-82.90	5.48	
10:40	2.8		6.52	1,212.90	15.25	1.04	-89.70	4.75	
10:43	3.5		6.49	1,243.80	15.31	0.95	-92.70	3.77	

Sampling Activities

Sampled By: JC — Sample Date/Time: 4/22/2026 10:43
Sample Method: Low Flow — Sample Equipment: Bladder Pump
Sample Parameters: 6.49 pH — 1,243.80 Spec. Cond. — 15.31 Temp
Field Filtered: No — Filter Type:
Water Level: 10.02 feet below TOC — Drawdown: 0.27 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp — **Date:** 4/22/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-2
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Allison Lampe — Affiliation: TekLab, Inc.

Name: Drew Nieters — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 63 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/21/26 12:11 PM

Static Water Level: 7.32 feet below TOC

Total Depth: 21.33 feet below TOC

Water Column: 14.01 feet

Purging Activities

Purged By: AL — Purge Date: 4/21/2026

Purge Method: Low Flow — Well Diameter: 2"

Purge Volume Calculation (L): 14.01 ft. x 0.022 = 0.31 L x 3 Vol. = 0.93 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 2.00 L

Physical appearance of purge water: Cloudy — Odor: None — Color: Light Brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:11	0.0	125	purge start time						
12:21	1.3	↓	6.51	1,406.70	14.03	2.51	15.50	64.23	
12:24	1.6		6.51	1,409.80	14.00	2.01	12.50	38.80	
12:27	2.0		6.50	1,410.00	14.19	1.72	10.20	30.01	

Sampling Activities

Sampled By: DN — Sample Date/Time: 4/21/2026 12:27

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 6.50 pH — 1,410.00 Spec. Cond. — 14.19 Temp

Field Filtered: No — Filter Type:

Water Level: 7.42 feet below TOC — Drawdown: 0.10 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: A Nieters — **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-3
Project Location:	Springfield, IL	**Sample ID:**	004
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 63 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/21/26 12:42 PM

Static Water Level: 9.30 feet below TOC

Total Depth: 20.80 feet below TOC

Water Column: 11.50 feet

Purging Activities

Purged By: AL Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 11.5 ft. x 0.022 = 0.25 L x 3 Vol. = 0.75 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 2.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Light Brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:42	0.0	100	purge start time						
12:56	1.4	↓	6.57	1,438.90	16.10	2.52	-26.30	226.72	
12:59	1.7		6.57	1,450.40	16.30	2.01	-33.50	153.14	
13:02	2.0		6.56	1,455.40	16.34	1.73	-37.60	104.05	

Sampling Activities

Sampled By: DN Sample Date/Time: 4/21/2026 13:02

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.56 pH 1,455.40 Spec. Cond. 16.34 Temp

Field Filtered: No Filter Type:

Water Level: 9.45 feet below TOC Drawdown: 0.15 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: A Nieters **Date:** 4/21/2026

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 26041298
Monitoring Point: AP-4
Sample ID: 005
Date (s): 4/21/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 63 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/21/26 9:35 AM
Static Water Level: 10.82 feet below TOC
Total Depth: 60.41 feet below TOC
Water Column: 49.59 feet

Purging Activities

Purged By: AL Purge Date: 4/21/2026
Purge Method: Low Flow Well Diameter: 2"
Purge Volume Calculation (L): 49.59 ft. x 0.022 = 1.09 L x 3 Vol. = 3.27 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:30	0.0	103	purge start time						
9:50	2.1	↓	6.82	912.70	18.59	4.00	-17.70	44.09	
9:53	2.4		6.81	916.40	18.80	3.90	-31.80	27.16	
9:56	2.7		6.81	920.50	19.03	3.84	-43.20	25.66	
9:59	3.0		6.82	922.00	19.18	3.77	-50.60	22.21	

Sampling Activities

Sampled By: DN Sample Date/Time: 4/21/2026 9:59
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.82 pH 922.00 Spec. Cond. 19.18 Temp
Field Filtered: No Filter Type:
Water Level: 11.05 feet below TOC Drawdown: 0.23 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: A Nieters Date: 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-5
Project Location:	Springfield, IL	**Sample ID:**	006
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/21/26 11:40 AM

Static Water Level: 14.66 feet below TOC

Total Depth: 31.27 feet below TOC

Water Column: 16.61 feet

Purging Activities

Purged By: JC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 16.61 ft. x 0.022 = 0.37 L x 3 Vol. = 1.11 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:41	0.0	237	purge start time						
11:48	1.7	↓	7.06	555.60	14.38	2.63	40.30	3.39	
11:51	2.4		7.03	554.80	14.43	2.17	42.30	2.95	
11:54	3.1		7.02	553.90	14.46	1.94	44.60	2.94	
11:57	3.8		7.01	553.10	14.47	1.80	46.70	2.14	
12:00	4.5		7.01	553.30	14.21	1.73	47.60	2.05	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/21/2026 12:00

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.01 pH 553.30 Spec. Cond. 14.21 Temp

Field Filtered: No Filter Type:

Water Level: 16.25 feet below TOC Drawdown: 1.59 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-6
Project Location:	Springfield, IL	**Sample ID:**	007
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 63 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/21/26 11:11 AM

Static Water Level: 10.72 feet below TOC

Total Depth: 39.62 feet below TOC

Water Column: 28.90 feet

Purging Activities

Purged By: AL Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 28.9 ft. x 0.022 = 0.64 L x 3 Vol. = 1.92 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 2.00 L

Physical appearance of purge water: Clear Odor: Slight Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:00	0.0	118	purge start time						
11:11	1.3	↓	7.21	750.60	17.53	4.57	-68.60	15.30	
11:14	1.6		7.22	753.60	17.96	4.63	-66.40	16.33	
11:17	2.0		7.20	757.30	18.18	4.61	-64.30	20.74	

Sampling Activities

Sampled By: DN Sample Date/Time: 4/21/2026 11:17

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.20 pH 757.30 Spec. Cond. 18.18 Temp

Field Filtered: No Filter Type:

Water Level: 11.81 feet below TOC Drawdown: 1.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: Allison Lampe **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-7
Project Location:	Springfield, IL	**Sample ID:**	008
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/21/26 11:02 AM

Static Water Level: 12.82 feet below TOC

Total Depth: 42.52 feet below TOC

Water Column: 29.70 feet

Purging Activities

Purged By: JC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 29.7 ft. x 0.022 = 0.65 L x 3 Vol. = 1.95 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.50 L

Physical appearance of purge water: Clear Odor: Slight Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:03	0.0	250	purge start time						
11:08	1.3	↓	7.10	620.00	13.57	0.86	-111.60	2.48	
11:11	2.0		7.06	614.90	13.37	0.64	-108.30	3.24	
11:14	2.8		7.04	614.00	13.34	0.56	-107.30	3.34	
11:17	3.5		7.04	613.80	13.48	0.51	-106.60	3.33	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/21/2026 11:17

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.04 pH 613.80 Spec. Cond. 13.48 Temp

Field Filtered: No Filter Type:

Water Level: 16.52 feet below TOC Drawdown: 3.70 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-8
Project Location:	Springfield, IL	**Sample ID:**	009
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 63 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/21/26 11:38 AM

Static Water Level: 5.93 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 33.67 feet

Purging Activities

Purged By: AL Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 33.67 ft. x 0.022 = 0.74 L x 3 Vol. = 2.22 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:35	0.0	143	purge start time						
11:50	2.1	↓	6.98	939.80	18.31	2.40	-14.30	25.42	
11:53	2.6		6.99	939.30	18.41	2.01	-21.30	24.51	
11:56	3.0		6.99	940.80	19.07	1.72	-26.20	27.16	

Sampling Activities

Sampled By: DN Sample Date/Time: 4/21/2026 11:56

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.99 pH 940.80 Spec. Cond. 19.07 Temp

Field Filtered: No Filter Type:

Water Level: 6.85 feet below TOC Drawdown: 0.92 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: Allison Lampe **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-9
Project Location:	Springfield, IL	**Sample ID:**	010
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 63 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/21/26 9:37 AM

Static Water Level: 11.82 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 27.78 feet

Purging Activities

Purged By: JC — Purge Date: 4/21/2026

Purge Method: Low Flow — Well Diameter: 2"

Purge Volume Calculation (L): 27.78 ft. x 0.022 = 0.61 L x 3 Vol. = 1.83 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Cloudy — Odor: None — Color: lt brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:37	0.0	231	purge start time						
9:41	0.9	↓	6.69	813.00	15.25	1.94	64.00	72.45	
9:44	1.6		6.72	776.40	15.35	1.75	55.70	96.23	
9:47	2.3		6.73	770.80	15.59	1.74	52.40	88.67	
9:50	3.0		6.74	769.80	15.77	1.72	51.20	81.20	

Sampling Activities

Sampled By: JC — Sample Date/Time: 4/21/2026 9:50

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.74 pH — 769.80 Spec. Cond. — 15.77 Temp

Field Filtered: No — Filter Type:

Water Level: 12.37 feet below TOC — Drawdown: 0.55 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp — **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP10
Project Location:	Springfield, IL	**Sample ID:**	011
W.O. Number (s):	26041298	**Date (s):**	4/22/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/22/26 9:56 AM

Static Water Level: 4.60 feet below TOC

Total Depth: 38.07 feet below TOC

Water Column: 33.47 feet

Purging Activities

Purged By: JC Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 33.47 ft. x 0.022 = 0.74 L x 3 Vol. = 2.22 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:57	0.0	250	purge start time						
10:02	1.3	↓	6.52	954.50	15.56	1.84	-83.40	11.62	
10:05	2.0		6.54	924.20	15.48	1.50	-96.40	9.38	
10:08	2.8		6.54	914.80	15.40	1.24	-100.80	7.75	
10:11	3.5		6.54	909.60	15.46	1.09	-102.60	7.71	
10:14	4.3		6.53	904.00	15.50	1.00	-103.20	8.27	
10:17	5.0		6.51	900.80	15.47	0.96	-103.00	9.64	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/22/2026 10:17

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.51 pH 900.80 Spec. Cond. 15.47 Temp

Field Filtered: No Filter Type:

Water Level: 4.78 feet below TOC Drawdown: 0.18 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp **Date:** 4/22/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP11
Project Location:	Springfield, IL	**Sample ID:**	012
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 65 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Locks	Yes	No
Well Pad	Good		Protective Casing	X	
Casing	Good		Well		X
Protective Casing	Good				
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 4/21/26 9:34 AM

Static Water Level: 14.03 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 8.92 feet

Purging Activities

Purged By: DC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 8.92 ft. x 0.022 = 0.2 L x 3 Vol. = 0.6 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:34	0.0	173	purge start time						
9:48	2.4	↓	6.33	988.40	15.51	1.40	52.00	10.17	
9:51	2.9		6.33	987.00	15.68	1.30	52.50	10.68	
9:54	3.5		6.33	985.60	15.69	1.22	52.40	8.77	
9:57	4.0		6.34	985.20	15.52	1.16	52.20	6.50	
10:00	4.5		6.34	985.10	15.46	1.11	52.00	6.81	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/21/2026 10:00

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.34 pH 985.10 Spec. Cond. 15.46 Temp

Field Filtered: No Filter Type:

Water Level: 14.84 feet below TOC Drawdown: 0.81 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP12
Project Location:	Springfield, IL	**Sample ID:**	013
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/21/26 10:53 AM

Static Water Level: 15.67 feet below TOC

Total Depth: 30.40 feet below TOC

Water Column: 14.73 feet

Purging Activities

Purged By: DC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 14.73 ft. x 0.022 = 0.32 L x 3 Vol. = 0.96 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Rust

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:53	0.0	227	purge start time						
11:03	2.3	↓	6.37	1,331.50	15.45	1.08	27.40	208.04	
11:06	3.0		6.36	1,334.20	15.41	0.97	16.90	148.67	
11:09	3.6		6.35	1,333.70	15.42	0.91	9.40	110.19	
11:12	4.3		6.35	1,334.10	15.25	0.86	4.00	83.88	
11:15	5.0		6.35	1,333.70	15.37	0.84	-0.20	80.31	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/21/2026 11:15

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.35 pH 1,333.70 Spec. Cond. 15.37 Temp

Field Filtered: No Filter Type:

Water Level: 16.22 feet below TOC Drawdown: 0.55 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP13
Project Location:	Springfield, IL	**Sample ID:**	014
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Locks	Yes	No
Well Pad	Good		Protective Casing	X	
Casing	Good		Well		X
Protective Casing	Good				
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 4/21/26 11:27 AM

Static Water Level: 17.04 feet below TOC

Total Depth: 31.00 feet below TOC

Water Column: 13.96 feet

Purging Activities

Purged By: DC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 13.96 ft. x 0.022 = 0.31 L x 3 Vol. = 0.93 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:27	0.0	294	purge start time						
11:32	1.5	↓	6.67	750.30	14.88	1.53	-22.00	10.51	
11:35	2.4		6.62	749.30	14.90	1.10	-36.40	9.16	
11:38	3.2		6.60	750.60	14.90	0.93	-43.60	8.48	
11:41	4.1		6.59	751.70	14.87	0.86	-47.30	7.04	
11:44	5.0		6.58	751.40	14.98	0.82	-49.00	6.15	

Sampling Activities

Sampled By: BG Sample Date/Time: 1/17/1900 11:44

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.58 pH 751.40 Spec. Cond. 14.98 Temp

Field Filtered: No Filter Type:

Water Level: 17.38 feet below TOC Drawdown: 0.34 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 1/17/1900

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP14
Project Location:	Springfield, IL	**Sample ID:**	015
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 73 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/21/26 12:13 PM

Static Water Level: 2.61 feet below TOC

Total Depth: 31.20 feet below TOC

Water Column: 28.59 feet

Purging Activities

Purged By: JC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 28.59 ft. x 0.022 = 0.63 L x 3 Vol. = 1.89 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 7.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:14	0.0	333	purge start time						
12:23	3.0	↓	6.95	1,486.40	16.99	1.25	-48.10	10.68	
12:26	4.0		6.93	1,512.30	17.61	1.10	-52.00	4.82	
12:29	5.0		6.92	1,514.50	17.96	0.98	-54.20	3.75	
12:32	6.0		6.92	1,512.90	17.96	0.91	-55.30	3.57	
12:35	7.0		6.91	1,513.20	18.11	0.88	-55.80	3.44	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/21/2026 12:35

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.91 pH 1,513.20 Spec. Cond. 18.11 Temp

Field Filtered: No Filter Type:

Water Level: 2.96 feet below TOC Drawdown: 0.35 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-01
Project Location:	Springfield, IL	**Sample ID:**	016
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing	X	
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/21/26 11:56 AM

Static Water Level: 12.82 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 10.13 feet

Purging Activities

Purged By: DC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 10.13 ft. x 0.022 = 0.22 L x 3 Vol. = 0.66 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:56	0.0	167	purge start time						
12:08	2.0	↓	6.34	1,270.30	17.03	1.49	51.90	17.59	
12:11	2.5		6.35	1,270.70	16.81	1.42	51.40	16.91	
12:14	3.0		6.35	1,272.10	16.56	1.41	51.50	15.77	
12:17	3.5		6.34	1,268.20	16.52	1.36	51.80	15.02	
12:20	4.0		6.34	1,269.70	16.56	1.33	52.40	12.75	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/21/2026 12:20

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.34 pH 1,269.70 Spec. Cond. 16.56 Temp

Field Filtered: No Filter Type:

Water Level: 13.26 feet below TOC Drawdown: 0.44 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-02
Project Location:	Springfield, IL	**Sample ID:**	017
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 65 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Locks	Yes	No
Well Pad	Good		Protective Casing	X	
Casing	Good		Well		X
Protective Casing	Good				
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 4/21/26 10:15 AM

Static Water Level: 25.76 feet below TOC

Total Depth: 34.44 feet below TOC

Water Column: 8.68 feet

Purging Activities

Purged By: DC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 8.68 ft. x 0.022 = 0.19 L x 3 Vol. = 0.57 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:15	0.0	211	purge start time						
10:22	1.5	↓	6.35	1,932.20	14.77	1.50	-16.80	7.34	
10:25	2.1		6.36	1,927.80	14.88	1.29	-25.10	5.39	
10:28	2.7		6.36	1,914.90	14.96	1.18	-26.90	4.29	
10:31	3.4		6.36	1,909.10	15.04	1.11	-27.30	3.65	
10:34	4.0		6.37	1,907.60	15.02	1.06	-28.60	3.29	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/21/2026 10:34

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.37 pH 1,907.60 Spec. Cond. 15.02 Temp

Field Filtered: No Filter Type:

Water Level: 26.31 feet below TOC Drawdown: 0.55 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-04
Project Location:	Springfield, IL	**Sample ID:**	018
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 65 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/21/26 10:07 AM

Static Water Level: 18.65 feet below TOC

Total Depth: 27.42 feet below TOC

Water Column: 8.77 feet

Purging Activities

Purged By: JC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 8.77 ft. x 0.022 = 0.19 L x 3 Vol. = 0.57 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: lt brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:08	0.0	250	purge start time						
10:12	1.0	↓	6.79	641.30	13.64	1.73	-70.30	51.57	
10:15	1.8		6.60	531.40	13.46	1.54	-35.70	18.01	
10:18	2.5		6.55	475.70	13.22	1.41	-10.30	14.22	
10:21	3.3		6.52	475.30	13.37	1.35	6.90	12.57	
10:24	4.0		6.51	479.00	13.50	1.30	18.50	12.10	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/21/2026 10:24

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.51 pH 479.00 Spec. Cond. 13.50 Temp

Field Filtered: No Filter Type:

Water Level: 19.45 feet below TOC Drawdown: 0.80 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp **Date:** 4/21/2026

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 26041298
Monitoring Point: T-05
Sample ID: 019
Date (s): 4/21/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/21/26 10:27 AM

Static Water Level: 6.04 feet below TOC
Total Depth: 22.34 feet below TOC
Water Column: 16.30 feet

Purging Activities

Purged By: JC — Purge Date: 4/21/2026
Purge Method: Low Flow — Well Diameter: 2"
Purge Volume Calculation (L): 16.3 ft. x 0.022 = 0.36 L x 3 Vol. = 1.08 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:27	0.0	231	purge start time						
10:31	0.9	↓	6.63	340.30	15.14	5.27	54.40	15.28	
10:34	1.6		6.61	341.90	15.39	5.12	64.20	12.04	
10:37	2.3		6.61	342.40	15.40	5.04	71.50	11.70	
10:40	3.0		6.62	340.60	15.16	5.05	77.20	15.44	

Sampling Activities

Sampled By: JC — Sample Date/Time: 4/21/2026 10:40
Sample Method: Low Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.62 pH — 340.60 Spec. Cond. — 15.16 Temp
Field Filtered: No — Filter Type:
Water Level: 7.56 feet below TOC — Drawdown: 1.52 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp — **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-06
Project Location:	Springfield, IL	**Sample ID:**	020
W.O. Number (s):	26041298	**Date (s):**	4/21/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/21/26 10:42 AM

Static Water Level: 11.98 feet below TOC

Total Depth: 43.62 feet below TOC

Water Column: 31.64 feet

Purging Activities

Purged By: JC Purge Date: 4/21/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 31.64 ft. x 0.022 = 0.7 L x 3 Vol. = 2.1 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:43	0.0	273	purge start time						
10:48	1.4	↓	7.07	649.30	15.39	1.31	-43.90	4.33	
10:51	2.2		7.07	653.50	15.56	1.16	-60.20	4.87	
10:54	3.0		7.06	652.80	15.89	1.05	-74.10	4.87	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/21/2026 10:54

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 7.06 pH 652.80 Spec. Cond. 15.89 Temp

Field Filtered: No Filter Type:

Water Level: 12.15 feet below TOC Drawdown: 0.17 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp **Date:** 4/21/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AW-1
Project Location:	Springfield, IL	**Sample ID:**	021
W.O. Number (s):	26041298	**Date (s):**	4/23/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/23/26 9:35 AM

Static Water Level: 14.96 feet below TOC

Total Depth: 54.81 feet below TOC

Water Column: 39.85 feet

Purging Activities

Purged By: DC Purge Date: 4/23/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 39.85 ft. x 0.022 = 0.88 L x 3 Vol. = 2.64 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Rust

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:35	0.0	222	purge start time						
9:50	3.3	↓	6.73	1,286.30	17.53	2.28	67.80	91.07	
9:53	4.0		6.73	1,284.30	17.48	2.25	69.40	103.83	
9:56	4.7		6.72	1,283.60	17.50	2.17	70.60	86.58	
9:59	5.3		6.72	1,284.50	17.64	2.04	71.40	63.80	
10:02	6.0		6.72	1,285.20	17.54	2.05	72.00	62.71	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/23/2026 10:02

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.72 pH 1,285.20 Spec. Cond. 17.54 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 15.52 feet below TOC Drawdown: 0.56 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/23/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	G120
Project Location:	Springfield, IL	**Sample ID:**	022
W.O. Number (s):	26041298	**Date (s):**	4/22/2026

Field Team Members

Name: Allison Lampe — Affiliation: TekLab, Inc.

Name: Drew Nieters — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/22/26 9:55 AM

Static Water Level: 16.43 feet below TOC

Total Depth: 50.37 feet below TOC

Water Column: 33.94 feet

Purging Activities

Purged By: AL — Purge Date: 4/22/2026

Purge Method: Low Flow — Well Diameter: 2"

Purge Volume Calculation (L): 33.94 ft. x 0.022 = 0.75 L x 3 Vol. = 2.25 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:55	0.0	179	purge start time						
10:14	3.4	↓	6.68	1,795.20	18.23	1.96	-41.50	71.51	
10:17	3.9		6.69	1,791.50	18.30	1.80	-67.50	72.97	
10:20	4.5		6.69	1,788.00	18.21	1.69	-82.70	83.16	
10:23	5.0		6.69	1,778.00	18.23	1.59	-92.70	83.39	

Sampling Activities

Sampled By: DN — Sample Date/Time: 4/22/2026 10:23

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.69 pH — 1,778.00 Spec. Cond. — 18.23 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 16.55 feet below TOC — Drawdown: 0.12 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: A Nieters — **Date:** 4/22/2026

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26041298
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223357 Technician(s): justin colp Date: 4/21/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260306A	4.00	122.30	4/21/26 8:59
7.0 Buffer	WC251017B	7.00	-45.80	4/21/26 8:55
10.0 Buffer	WC251017C	10.00	-213.30	4/21/26 9:02
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/21/26 9:08

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.96	4/21/26 9:09
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	4/21/26 9:14	18.2	7.03	1,401	0.88		
CCV-1-JC	CCV	4/21/26 13:03	20.5	7.05	1,424	0.89		

Comments:

Field Meter ID: Pine 223357 Technician(s): justin colp Date: 4/22/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	121.80	4/22/26 9:17
7.0 Buffer	WC251017B	7.00	-46.80	4/22/26 9:15
10.0 Buffer	WC251017C	10.00	-213.10	4/22/26 9:21
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/22/26 9:24

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.93	4/22/26 9:26
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	4/22/26 9:28	20.8	7.01	1,414	0.95		
CCV-2-JC	CCV	4/22/26 12:57	23.4	7.04	1,393	0.93		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26041298
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223357 Technician(s): justin colp Date: 4/23/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	118.80	4/23/26 9:08
7.0 Buffer	WC251017B	7.00	-49.00	4/23/26 9:05
10.0 Buffer	WC251017C	10.00	-213.60	4/23/26 9:12
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/23/26 9:17

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.94	4/23/26 9:18
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-JC	LCS	4/23/26 9:19	20.3	7.03	1,407	0.87		
CCV-3-JC	CCV	4/23/26 11:07	21.1	7.01	1,371	0.95		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26041298
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 51295 Technician(s): Brett Gillihan Date: 4/21/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260306A	4.00	129.40	4/21/26 8:55
7.0 Buffer	WC251017B	7.00	-41.00	4/21/26 8:52
10.0 Buffer	WC251017C	10.00	-200.30	4/21/26 9:01
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1411	4/21/26 9:07

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.32	4/21/26 9:10
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	4/21/26 9:13	14.9	6.98	1,415	0.37		
CCV-1-BG	CCV	4/21/26 13:05	17.4	6.99	1,419	0.41		

Comments:

Field Meter ID: Pine 51215 Technician(s): Brett Gillihan Date: 4/22/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	123.90	4/22/26 9:34
7.0 Buffer	WC251017B	7.00	-39.70	4/22/26 9:31
10.0 Buffer	WC251017C	10.00	139.20	1/0/00 0:00
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1416	4/22/26 9:39

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.41	4/22/26 9:42
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	4/22/26 9:44	19.1	6.99	1,416	0.42		
CCV-2-BG	CCV	4/22/26 13:11	19.7	7.00	1,415	0.44		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26041298
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 51215 Technician(s): Brett Gillihan Date: 4/23/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	125.40	4/23/26 9:08
7.0 Buffer	WC251017B	7.00	-37.20	4/23/26 9:01
10.0 Buffer	WC251017C	10.00	-193.40	4/23/26 9:10
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/23/26 9:17

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.36	4/23/26 9:21
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-BG	LCS	4/23/26 9:22	19.5	6.99	1,415	0.38		
CCV-3-BG	CCV	4/23/26 12:48	19.8	7.01	1,420	0.42		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26041298
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223337 Technician(s): A.Lampe Date: 4/21/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260306A	4.00	148.70	4/21/26 9:09
7.0 Buffer	WC251017B	7.00	-26.00	4/21/26 9:12
10.0 Buffer	WC251017C	10.00	-196.20	4/21/26 9:17
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/21/26 9:18

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.67	4/21/26 9:22
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-AL	LCS	4/21/26 9:23	18.8	7.07	1,414	0.67		
CCV-1-AL	CCV	4/21/26 13:10	19	7.08	1,374	0.78		

Comments:

Field Meter ID: Pine 23337 Technician(s): A.Lampe Date: 4/22/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	148.80	4/22/26 9:27
7.0 Buffer	WC251017B	7.00	-27.60	4/22/26 9:29
10.0 Buffer	WC251017C	10.00	-196.90	4/22/26 9:31
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/22/26 9:34

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.78	4/22/26 9:36
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-AL	LCS	4/22/26 9:40	19.07	7.05	1,407	0.78		
CCV-2-AL	CCV	4/22/26 12:42	19.8	7.01	1,367	0.96		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26041298
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 23337 Technician(s): A.Lampe Date: 4/23/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	149.60	4/23/26 9:25
7.0 Buffer	WC251017B	7.00	-27.60	4/23/26 9:27
10.0 Buffer	WC251017C	10.00	-197.50	4/23/26 9:29
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/23/26 9:31

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.45	4/23/26 9:32
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-AL	LCS	4/23/26 9:34	19.1	7.08	1,406	0.45		
CCV-3-AL	CCV	4/23/26 11:13	20.8	7.07	1,384	0.87		

Comments:

May 26, 2026

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100467
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Oklahoma	9978

RE: Landfill Monitoring Wells G1-G2-G3 **WorkOrder:** 26041297

Dear Eric Staley:

TEKLAB, INC received 13 samples on 4/23/2026 1:04:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 26041297
Client Project: Landfill Monitoring Wells G1-G2-G3
Report Date: 26-May-26

This reporting package includes the following:

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Report Contents	2
Definitions	3
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Accreditations	6
Laboratory Results	7
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Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3
Report Date: 26-May-26

Qualifiers

- Unknown hydrocarbon
B - Analyte detected in associated Method Blank
C - RL shown is a Client Requested Quantitation Limit
E - Value above quantitation range
H - Holding times exceeded
I - Associated internal standard was outside method criteria
J - Analyte detected below quantitation limits
M - Manual Integration used to determine area response
ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside recovery limits
T - TIC(Tentatively identified compound)
X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 26041297
Client Project: Landfill Monitoring Wells G1-G2-G3
Report Date: 26-May-26

Cooler Receipt Temp: 15.4 °C

An employee of Teklab, Inc. collected the sample(s).

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville

Address 120 United Drive
Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 120 United Drive
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100467	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2027	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2027	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2027	Collinsville
Illinois	IDPH	17584		5/31/2026	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Louisiana	LDEQ	05003		6/30/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	04/22/2026 12:07	R383246
Depth to water	*	-5.00		**4.03**	ft	1	04/22/2026 12:07	R383246
Depth to water from measuring point	*	0		**6.83**	ft	1	04/22/2026 12:07	R383246
Elevation of groundwater surface	*	0		**539.97**	ft	1	04/22/2026 12:07	R383246
Measuring Point Elevation	*	0		**546.80**	ft	1	04/22/2026 12:07	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.2**	°F	1	04/22/2026 12:07	R383246
SW-846 9040B								
pH, Field	*	1.00		**7.21**		1	04/22/2026 12:07	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1090**	µmhos/cm @25C	1	04/22/2026 12:07	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**2.65**	mg/L	1	04/23/2026 14:21	R382764
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**2.16**	mg/L	1	04/23/2026 14:19	R382764
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 17:35	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:07	R382815
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**866**	mg/L	1	04/24/2026 14:29	R383030
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 16:30	255472
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:38	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 16:08	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**106**	mg/L	10	04/26/2026 6:15	R382935
Sulfate	NELAP	10.0		**241**	mg/L	10	04/26/2026 6:15	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 5:37	R382935
Chloride	NELAP	5.00		**105**	mg/L	10	04/26/2026 5:37	R382935
Sulfate	NELAP	10.0		**241**	mg/L	10	04/26/2026 5:37	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**1.1**	mg/L	1	04/22/2026 21:41	R382728
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/27/2026 14:42	R382981
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**129**	µg/L	1	04/24/2026 20:40	255439
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/24/2026 20:40	255439
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/24/2026 20:40	255439

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Magnesium	NELAP	0.050		**65.5**	mg/L	1	04/24/2026 20:40	255439
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/24/2026 20:40	255439
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**< 25.0**	µg/L	1	05/01/2026 10:51	255445
Barium	NELAP	2.5		**358**	µg/L	1	05/01/2026 10:51	255445
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 10:51	255445
Boron	NELAP	20.0		**135**	µg/L	1	05/01/2026 10:51	255445
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 10:51	255445
Calcium	NELAP	0.100		**131**	mg/L	1	04/27/2026 19:48	255445
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:51	255445
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:51	255445
Copper	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:51	255445
Iron	NELAP	40.0		**126**	µg/L	1	05/01/2026 10:51	255445
Magnesium	NELAP	0.050		**69.1**	mg/L	1	05/01/2026 10:51	255445
Manganese	NELAP	7.0		**19800**	µg/L	1	05/01/2026 10:51	255445
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:51	255445
Potassium	NELAP	0.100		**1.96**	mg/L	1	04/27/2026 19:48	255445
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	05/01/2026 10:51	255445
Silver	NELAP	7.0		**< 7.0**	µg/L	1	05/01/2026 10:51	255445
Sodium	NELAP	0.050	B	**31.2**	mg/L	1	04/27/2026 19:48	255445
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 10:51	255445
Zinc	NELAP	10.0	B	**< 10.0**	µg/L	1	05/01/2026 10:51	255445
Contamination present in the MBLK for Zn. Sample results below the reporting limit are reportable per the TNI Standard.								
Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/21/2026 10:43	255439
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 20:57	255439
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 14:14	255445
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 14:14	255445
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/08/2026 21:15	255445
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/05/2026 14:14	255445
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:26	255444
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:23	255444
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 16:28	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.05		**ND**	µg/L	1	04/24/2026 8:38	255514
Alachlor	NELAP	0.05		**ND**	µg/L	1	04/24/2026 8:38	255514
Aldrin	NELAP	0.04		**ND**	µg/L	1	04/24/2026 8:38	255514
Dieldrin	NELAP	0.04		**ND**	µg/L	1	04/24/2026 8:38	255514
Endrin	NELAP	0.04		**ND**	µg/L	1	04/24/2026 8:38	255514
gamma-BHC	NELAP	0.04		**ND**	µg/L	1	04/24/2026 8:38	255514
Heptachlor	NELAP	0.04		**ND**	µg/L	1	04/24/2026 8:38	255514

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Heptachlor epoxide	NELAP	0.05		**ND**	µg/L	1	04/24/2026 8:38	255514
Methoxychlor	NELAP	0.05		**ND**	µg/L	1	04/24/2026 8:38	255514
Toxaphene	NELAP	1.06		**ND**	µg/L	1	04/24/2026 8:38	255514
Chlordane	NELAP	0.10		**ND**	µg/L	1	04/24/2026 8:38	255514
Surr: Decachlorobiphenyl	*	19.9-155		**100.4**	%REC	1	04/24/2026 8:38	255514
Surr: Tetrachloro-m-xylene	*	36.1-128		**64.8**	%REC	1	04/24/2026 8:38	255514
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/24/2026 13:48	255514
Surr: Decachlorobiphenyl	*	5-174		**97.1**	%REC	1	04/24/2026 13:48	255514
Surr: Tetrachloro-meta-xylene	*	22.2-139		**80.7**	%REC	1	04/24/2026 13:48	255514
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.21		**ND**	µg/L	1	04/27/2026 22:13	255414
2,4-D	NELAP	0.32		**ND**	µg/L	1	04/27/2026 22:13	255414
Dalapon	NELAP	1.38		**ND**	µg/L	1	04/27/2026 22:13	255414
Dinoseb	NELAP	0.21		**ND**	µg/L	1	04/27/2026 22:13	255414
Pentachlorophenol	NELAP	0.11		**ND**	µg/L	1	04/27/2026 22:13	255414
Picloram	NELAP	0.53		**ND**	µg/L	1	04/27/2026 22:13	255414
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**60.8**	%REC	1	04/27/2026 22:13	255414
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	0.98		**ND**	µg/L	1	04/27/2026 18:17	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 18:17	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 18:17	255504
Carbofuran	*	0.59		**ND**	µg/L	1	04/27/2026 18:17	255504
Simazine	*	0.54		**ND**	µg/L	1	04/27/2026 18:17	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**83.0**	%REC	1	04/27/2026 18:17	255504
Surr: 2-Fluorophenol	*	1-135		**57.2**	%REC	1	04/27/2026 18:17	255504
Surr: Nitrobenzene-d5	*	45-133		**85.3**	%REC	1	04/27/2026 18:17	255504
Surr: Phenol-d5	*	1-73.7		**37.6**	%REC	1	04/27/2026 18:17	255504
Surr: p-Terphenyl-d14	*	46.2-128		**82.6**	%REC	1	04/27/2026 18:17	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	5.9		**ND**	µg/L	1	04/24/2026 6:48	255427
Bis(chloromethyl)ether	*	9.8		**ND**	µg/L	1	04/24/2026 6:48	255427
Butyl benzyl phthalate	NELAP	4.9		**ND**	µg/L	1	04/24/2026 6:48	255427
Diethyl phthalate	NELAP	9.8		**ND**	µg/L	1	04/24/2026 6:48	255427
Dimethyl phthalate	NELAP	9.8		**ND**	µg/L	1	04/24/2026 6:48	255427
Di-n-butyl phthalate	NELAP	9.8		**ND**	µg/L	1	04/24/2026 6:48	255427
Isophorone	NELAP	9.8		**ND**	µg/L	1	04/24/2026 6:48	255427
m,p-Cresol	NELAP	9.8		**ND**	µg/L	1	04/24/2026 6:48	255427
Parathion	NELAP	4.9		**ND**	µg/L	1	04/24/2026 6:48	255427
Surr: 2,4,6-Tribromophenol	*	29-129		**74.7**	%REC	1	04/24/2026 6:48	255427
Surr: 2-Fluorobiphenyl	*	30.1-112		**62.2**	%REC	1	04/24/2026 6:48	255427
Surr: 2-Fluorophenol	*	18.7-95.3		**48.7**	%REC	1	04/24/2026 6:48	255427
Surr: Nitrobenzene-d5	*	23.6-113		**56.2**	%REC	1	04/24/2026 6:48	255427
Surr: Phenol-d5	*	15.9-72.2		**40.1**	%REC	1	04/24/2026 6:48	255427
Surr: p-Terphenyl-d14	*	17.9-114		**64.0**	%REC	1	04/24/2026 6:48	255427

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		ND	µg/L	1	04/24/2026 9:01	255511
1,2-Dibromoethane	*	0.05		ND	µg/L	1	04/24/2026 9:01	255511
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,1,1-Trichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,1,2,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,1,2-Trichloroethane	NELAP	0.50		ND	µg/L	1	04/24/2026 10:46	255667
1,1-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,1-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,2,3-Trichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,2,3-Trichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,2,4-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,2-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,2-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,3,5-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,3-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,3-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
1,4-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
2,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
2-Butanone	NELAP	5.00		ND	µg/L	1	04/24/2026 10:46	255667
2-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 10:46	255667
2-Hexanone	NELAP	10.0		ND	µg/L	1	04/24/2026 10:46	255667
4-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 10:46	255667
4-Methyl-2-pentanone	NELAP	5.00	B	ND	µg/L	1	04/24/2026 10:46	255667
Acetone	NELAP	5.10		ND	µg/L	1	04/24/2026 10:46	255667
Acrolein	NELAP	5.00		ND	µg/L	1	04/24/2026 10:46	255667
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/24/2026 10:46	255667
Benzene	NELAP	0.50		ND	µg/L	1	04/24/2026 10:46	255667
Bromobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Bromochloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 10:46	255667
Bromodichloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 10:46	255667
Bromoform	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Bromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Carbon disulfide	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Carbon tetrachloride	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Chlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Chloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Chloroform	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Chloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
cis-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
cis-1,3-Dichloropropene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Dibromochloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Dibromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Dichlorodifluoromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667
Ethylbenzene	NELAP	1.00		ND	µg/L	1	04/24/2026 10:46	255667
Hexachlorobutadiene	NELAP	2.00		ND	µg/L	1	04/24/2026 10:46	255667

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Methylene chloride	NELAP	2.00	B	**ND**	µg/L	1	04/24/2026 10:46	255667
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 10:46	255667
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Styrene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 10:46	255667
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/24/2026 10:46	255667
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Toluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/24/2026 10:46	255667
Surr: 1,2-Dichloroethane-d4	*	80-120		**107.7**	%REC	1	04/24/2026 10:46	255667
Surr: 4-Bromofluorobenzene	*	80-120		**93.9**	%REC	1	04/24/2026 10:46	255667
Surr: Dibromofluoromethane	*	80-120		**95.6**	%REC	1	04/24/2026 10:46	255667
Surr: Toluene-d8	*	80-120		**90.1**	%REC	1	04/24/2026 10:46	255667

Contamination present in the MBLK for multiple analytes. Sample results below the reporting limit are reportable per the TNI Standard.

Allowable Marginal Exceedance of Toluene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-002 **Client Sample ID:** G110

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 9:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.05**	ft	1	04/23/2026 9:59	R383246
Depth to water	*	-5.00		**22.10**	ft	1	04/23/2026 9:59	R383246
Depth to water from measuring point	*	0		**24.71**	ft	1	04/23/2026 9:59	R383246
Elevation of groundwater surface	*	0		**532.49**	ft	1	04/23/2026 9:59	R383246
Measuring Point Elevation	*	0		**557.20**	ft	1	04/23/2026 9:59	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.3**	°F	1	04/23/2026 9:59	R383246
SW-846 9040B								
pH, Field	*	1.00		**6.68**		1	04/23/2026 9:59	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**553**	µmhos/cm @25C	1	04/23/2026 9:59	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**2.81**	mg/L	1	04/24/2026 17:48	R382849
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**2.77**	mg/L	1	04/24/2026 17:45	R382849
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:28	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/24/2026 17:44	R382876
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**480**	mg/L	1	04/27/2026 10:20	R383124
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 21:11	255476
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:38	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 16:12	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**5.89**	mg/L	10	04/26/2026 6:40	R382935
Sulfate	NELAP	10.0		**ND**	mg/L	10	04/26/2026 6:40	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 6:28	R382935
Chloride	NELAP	5.00		**5.85**	mg/L	10	04/26/2026 6:28	R382935
Sulfate	NELAP	10.0		**ND**	mg/L	10	04/26/2026 6:28	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**3.7**	mg/L	1	04/28/2026 14:24	R383084
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/28/2026 12:09	R383018
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**92.6**	µg/L	1	04/27/2026 22:26	255519
Cadmium	NELAP	2.0	B	**< 2.0**	µg/L	1	04/27/2026 22:26	255519
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/27/2026 22:26	255519

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-002 **Client Sample ID:** G110

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 9:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Magnesium	NELAP	0.050		**44.1**	mg/L	1	04/30/2026 12:22	255519
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/27/2026 22:26	255519
Contamination present in the MBLK for Cd. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**< 25.0**	µg/L	1	05/01/2026 12:02	255531
Barium	NELAP	2.5		**202**	µg/L	1	05/01/2026 12:02	255531
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 12:02	255531
Boron	NELAP	20.0		**116**	µg/L	1	05/01/2026 12:02	255531
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 12:02	255531
Calcium	NELAP	0.100		**107**	mg/L	1	04/27/2026 17:37	255531
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:02	255531
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:02	255531
Copper	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:02	255531
Iron	NELAP	40.0		**6610**	µg/L	1	05/01/2026 12:02	255531
Magnesium	NELAP	0.500		**58.8**	mg/L	10	04/30/2026 16:11	255531
Manganese	NELAP	7.0		**89.9**	µg/L	1	05/01/2026 12:02	255531
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:02	255531
Potassium	NELAP	0.100		**1.65**	mg/L	1	04/27/2026 17:37	255531
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	05/01/2026 12:02	255531
Silver	NELAP	7.0		**< 7.0**	µg/L	1	05/01/2026 12:02	255531
Sodium	NELAP	0.050		**14.4**	mg/L	1	04/27/2026 17:37	255531
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 12:02	255531
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 12:02	255531
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**5.5**	µg/L	5	05/12/2026 18:43	255519
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 0:00	255519
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/13/2026 17:23	255531
Arsenic	NELAP	1.0		**6.2**	µg/L	5	05/13/2026 17:23	255531
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/04/2026 22:36	255531
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/14/2026 22:46	255531
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/27/2026 16:00	255547
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/27/2026 15:58	255547
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 16:42	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.05		**ND**	µg/L	1	04/28/2026 10:55	255656
Alachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 10:55	255656
Aldrin	NELAP	0.04		**ND**	µg/L	1	04/28/2026 10:55	255656
Dieldrin	NELAP	0.04		**ND**	µg/L	1	04/28/2026 10:55	255656
Endrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 10:55	255656
gamma-BHC	NELAP	0.04		**ND**	µg/L	1	04/28/2026 10:55	255656
Heptachlor	NELAP	0.04		**ND**	µg/L	1	04/28/2026 10:55	255656
Heptachlor epoxide	NELAP	0.05		**ND**	µg/L	1	04/28/2026 10:55	255656

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-002 **Client Sample ID:** G110

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 9:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Methoxychlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 10:55	255656
Toxaphene	NELAP	1.01		**ND**	µg/L	1	04/28/2026 10:55	255656
Chlordane	NELAP	0.05		**ND**	µg/L	1	04/28/2026 10:55	255656
Surr: Decachlorobiphenyl	*	19.9-155		**77.0**	%REC	1	04/28/2026 10:55	255656
Surr: Tetrachloro-m-xylene	*	36.1-128		**73.4**	%REC	1	04/28/2026 10:55	255656
Matrix spike recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable.								
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.495		**ND**	µg/L	1	04/28/2026 11:03	255656
Surr: Decachlorobiphenyl	*	5-174		**86.1**	%REC	1	04/28/2026 11:03	255656
Surr: Tetrachloro-meta-xylene	*	22.2-139		**87.3**	%REC	1	04/28/2026 11:03	255656
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.21		**ND**	µg/L	1	04/28/2026 5:14	255594
2,4-D	NELAP	0.31		**ND**	µg/L	1	04/28/2026 5:14	255594
Dalapon	NELAP	1.34	S	**ND**	µg/L	1	04/28/2026 5:14	255594
Dinoseb	NELAP	0.21		**ND**	µg/L	1	04/28/2026 5:14	255594
Pentachlorophenol	NELAP	0.10		**ND**	µg/L	1	04/28/2026 5:14	255594
Picloram	NELAP	0.52		**ND**	µg/L	1	04/28/2026 5:14	255594
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**95.1**	%REC	1	04/28/2026 5:14	255594
Matrix spike did not recover within control limits for Dalapon due to matrix interference.								
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.04		**ND**	µg/L	1	04/27/2026 16:08	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 16:08	255504
Benzo(a)pyrene	*	0.16		**ND**	µg/L	1	04/27/2026 16:08	255504
Carbofuran	*	0.62		**ND**	µg/L	1	04/27/2026 16:08	255504
Simazine	*	0.57		**ND**	µg/L	1	04/27/2026 16:08	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**89.6**	%REC	1	04/27/2026 16:08	255504
Surr: 2-Fluorophenol	*	1-135		**64.0**	%REC	1	04/27/2026 16:08	255504
Surr: Nitrobenzene-d5	*	45-133		**92.6**	%REC	1	04/27/2026 16:08	255504
Surr: Phenol-d5	*	1-73.7		**41.8**	%REC	1	04/27/2026 16:08	255504
Surr: p-Terphenyl-d14	*	46.2-128		**92.4**	%REC	1	04/27/2026 16:08	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	5.9	S	**ND**	µg/L	1	04/29/2026 9:24	255726
Bis(chloromethyl)ether	*	9.9		**ND**	µg/L	1	04/29/2026 9:24	255726
Butyl benzyl phthalate	NELAP	4.9		**ND**	µg/L	1	04/29/2026 9:24	255726
Diethyl phthalate	NELAP	9.9		**ND**	µg/L	1	04/29/2026 9:24	255726
Dimethyl phthalate	NELAP	9.9		**ND**	µg/L	1	04/29/2026 9:24	255726
Di-n-butyl phthalate	NELAP	9.9	S	**ND**	µg/L	1	04/29/2026 9:24	255726
Isophorone	NELAP	9.9		**ND**	µg/L	1	04/29/2026 9:24	255726
m,p-Cresol	NELAP	9.9		**ND**	µg/L	1	04/29/2026 9:24	255726
Parathion	NELAP	4.9		**ND**	µg/L	1	04/29/2026 9:24	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**80.6**	%REC	1	04/29/2026 9:24	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**65.9**	%REC	1	04/29/2026 9:24	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**53.4**	%REC	1	04/29/2026 9:24	255726
Surr: Nitrobenzene-d5	*	23.6-113		**60.8**	%REC	1	04/29/2026 9:24	255726
Surr: Phenol-d5	*	15.9-72.2		**42.4**	%REC	1	04/29/2026 9:24	255726

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-002 **Client Sample ID:** G110

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 9:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Surr: p-Terphenyl-d14	*	17.9-114		**63.2**	%REC	1	04/29/2026 9:24	255726
Matrix spike did not recover within control limits due to sample composition.								
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		**ND**	µg/L	1	04/24/2026 15:56	255587
1,2-Dibromoethane	*	0.05		**ND**	µg/L	1	04/24/2026 15:56	255587
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,1,1-Trichloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,1,2,2-Tetrachloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,1,2-Trichloroethane	NELAP	0.50		**ND**	µg/L	1	04/28/2026 12:43	255771
1,1-Dichloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,1-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,2,3-Trichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,2,3-Trichloropropane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,2,4-Trimethylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,2-Dichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,2-Dichloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,2-Dichloropropane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,3,5-Trimethylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,3-Dichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,3-Dichloropropane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,4-Dichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
2,2-Dichloropropane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
2-Butanone	NELAP	5.00		**ND**	µg/L	1	04/28/2026 12:43	255771
2-Chlorotoluene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:43	255771
2-Hexanone	NELAP	10.0		**ND**	µg/L	1	04/28/2026 12:43	255771
4-Chlorotoluene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:43	255771
4-Methyl-2-pentanone	NELAP	5.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Acetone	NELAP	5.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Acrolein	NELAP	5.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Acrylonitrile	NELAP	5.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Benzene	NELAP	0.50		**ND**	µg/L	1	04/28/2026 12:43	255771
Bromobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Bromochloromethane	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Bromodichloromethane	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Bromoform	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Bromomethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Carbon disulfide	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Carbon tetrachloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Chlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Chloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Chloroform	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Chloromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
cis-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
cis-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Dibromochloromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Dibromomethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-002 **Client Sample ID:** G110

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 9:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Dichlorodifluoromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Hexachlorobutadiene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:43	255771
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Styrene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:43	255771
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/28/2026 12:43	255771
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Toluene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/28/2026 12:43	255771
Surr: 1,2-Dichloroethane-d4	*	80-120	S	**122.5**	%REC	1	04/28/2026 12:43	255771
Surr: 4-Bromofluorobenzene	*	80-120		**108.1**	%REC	1	04/28/2026 12:43	255771
Surr: Dibromofluoromethane	*	80-120		**103.7**	%REC	1	04/28/2026 12:43	255771
Surr: Toluene-d8	*	80-120		**106.8**	%REC	1	04/28/2026 12:43	255771

Surrogate recovery is outside control limits due to matrix interference.

Allowable Marginal Exceedance of 1,1,2,2-Tetrachloroethane and trans-1,4-Dichloro-2-butene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-003 **Client Sample ID:** R111

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.25**	ft	1	04/22/2026 11:31	R383246
Depth to water	*	-5.00		**25.22**	ft	1	04/22/2026 11:31	R383246
Depth to water from measuring point	*	0		**25.22**	ft	1	04/22/2026 11:31	R383246
Elevation of groundwater surface	*	0		**528.78**	ft	1	04/22/2026 11:31	R383246
Measuring Point Elevation	*	0		**554.00**	ft	1	04/22/2026 11:31	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.6**	°F	1	04/22/2026 11:31	R383246
SW-846 9040B								
pH, Field	*	1.00		**6.81**		1	04/22/2026 11:31	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**888**	µmhos/cm @25C	1	04/22/2026 11:31	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	7	SR	**< 7**	mg/L	1	04/28/2026 16:34	R383034
Matrix spike and RPD did not recover within control limits.								
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**3.32**	mg/L	1	04/23/2026 14:49	R382764
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.20		**3.34**	mg/L	2	04/24/2026 17:53	R382849
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 17:39	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:09	R382815
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**850**	mg/L	1	04/24/2026 14:29	R383030
Stable weight could not be achieved after multiple cycles of drying, cooling, and weighing. Final weight is reported.								
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 16:38	255472
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:38	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 16:38	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**197**	mg/L	10	04/26/2026 7:06	R382935
Sulfate	NELAP	10.0		**31.2**	mg/L	10	04/26/2026 7:06	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 6:53	R382935
Chloride	NELAP	5.00		**176**	mg/L	10	04/26/2026 6:53	R382935
Sulfate	NELAP	10.0		**24.9**	mg/L	10	04/26/2026 6:53	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**2.5**	mg/L	1	04/22/2026 21:48	R382728
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/27/2026 14:38	R382981
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**3930**	µg/L	1	04/24/2026 20:42	255439

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-003 **Client Sample ID:** R111

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/24/2026 20:42	255439
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/24/2026 20:42	255439
Magnesium	NELAP	0.050	S	**69.9**	mg/L	1	04/24/2026 20:42	255439
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/24/2026 20:42	255439
Matrix spike control limits for Mg are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**101**	µg/L	1	05/01/2026 10:53	255445
Barium	NELAP	2.5		**632**	µg/L	1	05/01/2026 10:53	255445
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 10:53	255445
Boron	NELAP	20.0		**3430**	µg/L	1	05/01/2026 10:53	255445
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 10:53	255445
Calcium	NELAP	0.100		**159**	mg/L	1	04/27/2026 19:50	255445
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:53	255445
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:53	255445
Copper	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:53	255445
Iron	NELAP	40.0		**11400**	µg/L	1	05/01/2026 10:53	255445
Magnesium	NELAP	0.050		**68.6**	mg/L	1	05/01/2026 10:53	255445
Manganese	NELAP	7.0		**113**	µg/L	1	05/01/2026 10:53	255445
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:53	255445
Potassium	NELAP	0.100		**2.05**	mg/L	1	04/27/2026 19:50	255445
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	05/01/2026 10:53	255445
Silver	NELAP	7.0		**< 7.0**	µg/L	1	05/01/2026 10:53	255445
Sodium	NELAP	0.050	B	**35.8**	mg/L	1	04/27/2026 19:50	255445
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 10:53	255445
Zinc	NELAP	10.0	B	**< 10.0**	µg/L	1	05/01/2026 10:53	255445
Contamination present in the MBLK for Zn. Sample results below the reporting limit are reportable per the TNI Standard.								
Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**13.6**	µg/L	5	05/09/2026 3:11	255439
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 21:02	255439
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 14:16	255445
Arsenic	NELAP	1.0		**14.7**	µg/L	5	05/05/2026 14:16	255445
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/08/2026 21:18	255445
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/05/2026 14:16	255445
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:34	255444
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:28	255444
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 16:57	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:36	255656
Alachlor	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:36	255656
Aldrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 11:36	255656
Dieldrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 11:36	255656

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-003 **Client Sample ID:** R111

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Endrin	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:36	255656
gamma-BHC	NELAP	0.05		**ND**	µg/L	1	04/28/2026 11:36	255656
Heptachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 11:36	255656
Heptachlor epoxide	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:36	255656
Methoxychlor	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:36	255656
Toxaphene	NELAP	1.20		**ND**	µg/L	1	04/28/2026 11:36	255656
Chlordane	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:36	255656
Surr: Decachlorobiphenyl	*	19.9-155		**62.9**	%REC	1	04/28/2026 11:36	255656
Surr: Tetrachloro-m-xylene	*	36.1-128		**73.0**	%REC	1	04/28/2026 11:36	255656
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.494		**ND**	µg/L	1	04/28/2026 11:18	255656
Surr: Decachlorobiphenyl	*	5-174		**58.5**	%REC	1	04/28/2026 11:18	255656
Surr: Tetrachloro-meta-xylene	*	22.2-139		**85.9**	%REC	1	04/28/2026 11:18	255656
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.40		**ND**	µg/L	1	04/27/2026 22:38	255414
2,4-D	NELAP	0.60		**ND**	µg/L	1	04/27/2026 22:38	255414
Dalapon	NELAP	2.60		**ND**	µg/L	1	04/27/2026 22:38	255414
Dinoseb	NELAP	0.40		**ND**	µg/L	1	04/27/2026 22:38	255414
Pentachlorophenol	NELAP	0.20		**ND**	µg/L	1	04/27/2026 22:38	255414
Picloram	NELAP	1.00		**ND**	µg/L	1	04/27/2026 22:38	255414
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**71.7**	%REC	1	04/27/2026 22:38	255414
Elevated reporting limit due to sample composition.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/27/2026 17:45	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 17:45	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 17:45	255504
Carbofuran	*	0.60		**ND**	µg/L	1	04/27/2026 17:45	255504
Simazine	*	0.55		**ND**	µg/L	1	04/27/2026 17:45	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**80.1**	%REC	1	04/27/2026 17:45	255504
Surr: 2-Fluorophenol	*	1-135		**55.2**	%REC	1	04/27/2026 17:45	255504
Surr: Nitrobenzene-d5	*	45-133		**81.8**	%REC	1	04/27/2026 17:45	255504
Surr: Phenol-d5	*	1-73.7		**37.4**	%REC	1	04/27/2026 17:45	255504
Surr: p-Terphenyl-d14	*	46.2-128		**90.2**	%REC	1	04/27/2026 17:45	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/24/2026 7:20	255427
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/24/2026 7:20	255427
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/24/2026 7:20	255427
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/24/2026 7:20	255427
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/24/2026 7:20	255427
Di-n-butyl phthalate	NELAP	10.0		**15.9**	µg/L	1	04/24/2026 7:20	255427
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/24/2026 7:20	255427
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/24/2026 7:20	255427
Parathion	NELAP	5.0		**ND**	µg/L	1	04/24/2026 7:20	255427
Surr: 2,4,6-Tribromophenol	*	29-129		**66.5**	%REC	1	04/24/2026 7:20	255427
Surr: 2-Fluorobiphenyl	*	30.1-112		**55.6**	%REC	1	04/24/2026 7:20	255427
Surr: 2-Fluorophenol	*	18.7-95.3		**45.3**	%REC	1	04/24/2026 7:20	255427

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-003 **Client Sample ID:** R111

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Surr: Nitrobenzene-d5	*	23.6-113		**51.9**	%REC	1	04/24/2026 7:20	255427
Surr: Phenol-d5	*	15.9-72.2		**36.6**	%REC	1	04/24/2026 7:20	255427
Surr: p-Terphenyl-d14	*	17.9-114		**61.3**	%REC	1	04/24/2026 7:20	255427
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		**ND**	µg/L	1	04/24/2026 9:13	255511
1,2-Dibromoethane	*	0.05		**ND**	µg/L	1	04/24/2026 9:13	255511
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,1,1-Trichloroethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,1,2,2-Tetrachloroethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,1,2-Trichloroethane	NELAP	0.50		**ND**	µg/L	1	04/24/2026 11:11	255667
1,1-Dichloroethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,1-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,2,3-Trichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,2,3-Trichloropropane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,2,4-Trimethylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,2-Dichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,2-Dichloroethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,2-Dichloropropane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,3,5-Trimethylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,3-Dichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,3-Dichloropropane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,4-Dichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
2,2-Dichloropropane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
2-Butanone	NELAP	5.00		**ND**	µg/L	1	04/24/2026 11:11	255667
2-Chlorotoluene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 11:11	255667
2-Hexanone	NELAP	10.0		**ND**	µg/L	1	04/24/2026 11:11	255667
4-Chlorotoluene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 11:11	255667
4-Methyl-2-pentanone	NELAP	5.00	B	**ND**	µg/L	1	04/24/2026 11:11	255667
Acetone	NELAP	5.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Acrolein	NELAP	5.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Acrylonitrile	NELAP	5.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Benzene	NELAP	0.50		**ND**	µg/L	1	04/24/2026 11:11	255667
Bromobenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Bromochloromethane	NELAP	1.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Bromodichloromethane	NELAP	1.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Bromoform	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Bromomethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Carbon disulfide	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Carbon tetrachloride	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Chlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Chloroethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Chloroform	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Chloromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
cis-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
cis-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Dibromochloromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-003 **Client Sample ID:** R111

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Dibromomethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Dichlorodifluoromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Hexachlorobutadiene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Methylene chloride	NELAP	2.00	B	**ND**	µg/L	1	04/24/2026 11:11	255667
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 11:11	255667
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Styrene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 11:11	255667
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/24/2026 11:11	255667
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Toluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/24/2026 11:11	255667
Surr: 1,2-Dichloroethane-d4	*	80-120		**106.0**	%REC	1	04/24/2026 11:11	255667
Surr: 4-Bromofluorobenzene	*	80-120		**98.2**	%REC	1	04/24/2026 11:11	255667
Surr: Dibromofluoromethane	*	80-120		**96.6**	%REC	1	04/24/2026 11:11	255667
Surr: Toluene-d8	*	80-120		**103.6**	%REC	1	04/24/2026 11:11	255667

Contamination present in the MBLK for multiple analytes. Sample results below the reporting limit are reportable per the TNI Standard.

Allowable Marginal Exceedance of Toluene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-004 **Client Sample ID:** G112

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 11:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.99**	ft	1	04/23/2026 11:04	R383246
Depth to water	*	-5.00		**25.69**	ft	1	04/23/2026 11:04	R383246
Depth to water from measuring point	*	0		**27.87**	ft	1	04/23/2026 11:04	R383246
Elevation of groundwater surface	*	0		**526.93**	ft	1	04/23/2026 11:04	R383246
Measuring Point Elevation	*	0		**554.80**	ft	1	04/23/2026 11:04	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.1**	°F	1	04/23/2026 11:04	R383246
SW-846 9040B								
pH, Field	*	1.00		**7.02**		1	04/23/2026 11:04	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**965**	µmhos/cm @25C	1	04/23/2026 11:04	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**4.48**	mg/L	1	04/24/2026 18:03	R382849
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**4.63**	mg/L	1	04/27/2026 18:22	R382991
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:29	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/24/2026 17:45	R382876
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**1080**	mg/L	1	04/27/2026 10:20	R383124
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 21:15	255476
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:38	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 16:55	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**170**	mg/L	10	04/26/2026 7:31	R382935
Sulfate	NELAP	10.0		**247**	mg/L	10	04/26/2026 7:31	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 7:18	R382935
Chloride	NELAP	5.00		**166**	mg/L	10	04/26/2026 7:18	R382935
Sulfate	NELAP	10.0		**243**	mg/L	10	04/26/2026 7:18	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**2.9**	mg/L	1	04/28/2026 14:30	R383084
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/28/2026 12:04	R383018
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**477**	µg/L	1	04/27/2026 22:38	255519
Cadmium	NELAP	2.0	B	**< 2.0**	µg/L	1	04/27/2026 22:38	255519
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/27/2026 22:38	255519

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-004 **Client Sample ID:** G112

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 11:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Magnesium	NELAP	0.050	S	**71.3**	mg/L	1	04/30/2026 12:23	255519
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/27/2026 22:38	255519
Matrix spike control limits for Mg are not applicable due to high sample/spike ratio.								
Contamination present in the MBLK for Cd. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**< 25.0**	µg/L	1	05/01/2026 12:04	255531
Barium	NELAP	2.5		**523**	µg/L	1	05/01/2026 12:04	255531
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 12:04	255531
Boron	NELAP	20.0		**616**	µg/L	1	05/01/2026 12:04	255531
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 12:04	255531
Calcium	NELAP	0.100		**216**	mg/L	1	04/27/2026 17:39	255531
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:04	255531
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:04	255531
Copper	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:04	255531
Iron	NELAP	40.0		**10600**	µg/L	1	05/01/2026 12:04	255531
Magnesium	NELAP	0.500		**98.5**	mg/L	10	04/30/2026 16:12	255531
Manganese	NELAP	7.0		**324**	µg/L	1	05/01/2026 12:04	255531
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:04	255531
Potassium	NELAP	0.100		**2.49**	mg/L	1	04/27/2026 17:39	255531
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	05/01/2026 12:04	255531
Silver	NELAP	7.0		**< 7.0**	µg/L	1	05/01/2026 12:04	255531
Sodium	NELAP	0.050		**32.0**	mg/L	1	04/27/2026 17:39	255531
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 12:04	255531
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 12:04	255531
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/12/2026 18:47	255519
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 0:04	255519
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/13/2026 17:27	255531
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/13/2026 17:27	255531
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/04/2026 22:40	255531
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/14/2026 22:49	255531
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/27/2026 16:04	255547
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/27/2026 16:02	255547
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 17:12	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.06		**ND**	µg/L	1	04/27/2026 13:01	255608
Alachlor	NELAP	0.06		**ND**	µg/L	1	04/27/2026 13:01	255608
Aldrin	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:01	255608
Dieldrin	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:01	255608
Endrin	NELAP	0.06		**ND**	µg/L	1	04/27/2026 13:01	255608
gamma-BHC	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:01	255608
Heptachlor	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:01	255608

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-004 **Client Sample ID:** G112

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 11:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Heptachlor epoxide	NELAP	0.06		**ND**	µg/L	1	04/27/2026 13:01	255608
Methoxychlor	NELAP	0.06		**ND**	µg/L	1	04/27/2026 13:01	255608
Toxaphene	NELAP	1.11		**ND**	µg/L	1	04/27/2026 13:01	255608
Chlordane	NELAP	0.06		**ND**	µg/L	1	04/27/2026 13:01	255608
Surr: Decachlorobiphenyl	*	19.9-155		**50.1**	%REC	1	04/27/2026 13:01	255608
Surr: Tetrachloro-m-xylene	*	36.1-128		**63.4**	%REC	1	04/27/2026 13:01	255608
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/27/2026 13:13	255608
Surr: Decachlorobiphenyl	*	5-174		**42.9**	%REC	1	04/27/2026 13:13	255608
Surr: Tetrachloro-meta-xylene	*	22.2-139		**77.0**	%REC	1	04/27/2026 13:13	255608
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.21		**ND**	µg/L	1	04/27/2026 23:03	255594
2,4-D	NELAP	0.31		**ND**	µg/L	1	04/27/2026 23:03	255594
Dalapon	NELAP	1.35		**ND**	µg/L	1	04/27/2026 23:03	255594
Dinoseb	NELAP	0.21		**ND**	µg/L	1	04/27/2026 23:03	255594
Pentachlorophenol	NELAP	0.10		**ND**	µg/L	1	04/27/2026 23:03	255594
Picloram	NELAP	0.52		**ND**	µg/L	1	04/27/2026 23:03	255594
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**84.2**	%REC	1	04/27/2026 23:03	255594
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/27/2026 18:50	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 18:50	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 18:50	255504
Carbofuran	*	0.60		**ND**	µg/L	1	04/27/2026 18:50	255504
Simazine	*	0.55		**ND**	µg/L	1	04/27/2026 18:50	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**71.0**	%REC	1	04/27/2026 18:50	255504
Surr: 2-Fluorophenol	*	1-135		**52.8**	%REC	1	04/27/2026 18:50	255504
Surr: Nitrobenzene-d5	*	45-133		**76.6**	%REC	1	04/27/2026 18:50	255504
Surr: Phenol-d5	*	1-73.7		**35.2**	%REC	1	04/27/2026 18:50	255504
Surr: p-Terphenyl-d14	*	46.2-128		**82.9**	%REC	1	04/27/2026 18:50	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/29/2026 11:00	255726
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/29/2026 11:00	255726
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/29/2026 11:00	255726
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:00	255726
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:00	255726
Di-n-butyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:00	255726
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:00	255726
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:00	255726
Parathion	NELAP	5.0		**ND**	µg/L	1	04/29/2026 11:00	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**57.6**	%REC	1	04/29/2026 11:00	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**47.3**	%REC	1	04/29/2026 11:00	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**39.2**	%REC	1	04/29/2026 11:00	255726
Surr: Nitrobenzene-d5	*	23.6-113		**44.7**	%REC	1	04/29/2026 11:00	255726
Surr: Phenol-d5	*	15.9-72.2		**31.2**	%REC	1	04/29/2026 11:00	255726
Surr: p-Terphenyl-d14	*	17.9-114		**47.7**	%REC	1	04/29/2026 11:00	255726

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-004 **Client Sample ID:** G112

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 11:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		ND	µg/L	1	04/24/2026 16:07	255587
1,2-Dibromoethane	*	0.05		ND	µg/L	1	04/24/2026 16:07	255587
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,1,1-Trichloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,1,2,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,1,2-Trichloroethane	NELAP	0.50		ND	µg/L	1	04/28/2026 13:07	255771
1,1-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,1-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,2,3-Trichlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,2,3-Trichloropropane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,2,4-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,2-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,2-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,3,5-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,3-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,3-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
1,4-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
2,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
2-Butanone	NELAP	5.00		ND	µg/L	1	04/28/2026 13:07	255771
2-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/28/2026 13:07	255771
2-Hexanone	NELAP	10.0		ND	µg/L	1	04/28/2026 13:07	255771
4-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/28/2026 13:07	255771
4-Methyl-2-pentanone	NELAP	5.00		ND	µg/L	1	04/28/2026 13:07	255771
Acetone	NELAP	5.00		ND	µg/L	1	04/28/2026 13:07	255771
Acrolein	NELAP	5.00		ND	µg/L	1	04/28/2026 13:07	255771
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/28/2026 13:07	255771
Benzene	NELAP	0.50		ND	µg/L	1	04/28/2026 13:07	255771
Bromobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Bromochloromethane	NELAP	1.00		ND	µg/L	1	04/28/2026 13:07	255771
Bromodichloromethane	NELAP	1.00		ND	µg/L	1	04/28/2026 13:07	255771
Bromoform	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Bromomethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Carbon disulfide	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Carbon tetrachloride	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Chlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Chloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Chloroform	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Chloromethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
cis-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
cis-1,3-Dichloropropene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Dibromochloromethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Dibromomethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Dichlorodifluoromethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771
Ethylbenzene	NELAP	1.00		ND	µg/L	1	04/28/2026 13:07	255771
Hexachlorobutadiene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:07	255771

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-004 **Client Sample ID:** G112

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 11:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 13:07	255771
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Styrene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 13:07	255771
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/28/2026 13:07	255771
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Toluene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/28/2026 13:07	255771
Surr: 1,2-Dichloroethane-d4	*	80-120	S	**120.6**	%REC	1	04/28/2026 13:07	255771
Surr: 4-Bromofluorobenzene	*	80-120		**108.5**	%REC	1	04/28/2026 13:07	255771
Surr: Dibromofluoromethane	*	80-120		**102.4**	%REC	1	04/28/2026 13:07	255771
Surr: Toluene-d8	*	80-120		**105.8**	%REC	1	04/28/2026 13:07	255771

Surrogate recovery is outside control limits due to matrix interference.

Allowable Marginal Exceedance of 1,1,2,2-Tetrachloroethane and trans-1,4-Dichloro-2-butene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-005 **Client Sample ID:** G113

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**524.85**	ft	1	04/23/2026 10:17	R383246
Depth to water	*	-5.00		**2.05**	ft	1	04/23/2026 10:17	R383246
Depth to water from measuring point	*	0		**4.55**	ft	1	04/23/2026 10:17	R383246
Elevation of groundwater surface	*	0		**533.15**	ft	1	04/23/2026 10:17	R383246
Measuring Point Elevation	*	0		**537.70**	ft	1	04/23/2026 10:17	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.0**	°F	1	04/23/2026 10:17	R383246
SW-846 9040B								
pH, Field	*	1.00		**6.08**		1	04/23/2026 10:17	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1670**	µmhos/cm @25C	1	04/23/2026 10:17	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**0.93**	mg/L	1	04/24/2026 18:08	R382849
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**0.88**	mg/L	1	04/24/2026 18:05	R382849
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:30	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050	H	**< 0.050**	mg/L	1	04/27/2026 16:39	R382997
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**1670**	mg/L	1	04/27/2026 10:20	R383124
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**11**	mg/L	1	04/23/2026 21:19	255476
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**64**	mg/L	1	04/29/2026 22:39	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 17:04	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**70.1**	mg/L	10	04/26/2026 8:34	R382935
Sulfate	NELAP	10.0		**678**	mg/L	10	04/26/2026 8:34	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 8:22	R382935
Chloride	NELAP	5.00		**72.8**	mg/L	10	04/26/2026 8:22	R382935
Sulfate	NELAP	10.0		**707**	mg/L	10	04/26/2026 8:22	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	5.0		**7.6**	mg/L	5	04/28/2026 14:42	R383084
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/28/2026 12:16	R383018
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**1600**	µg/L	1	04/27/2026 22:43	255519
Cadmium	NELAP	2.0	B	**< 2.0**	µg/L	1	04/27/2026 22:43	255519
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/27/2026 22:43	255519

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-005 **Client Sample ID:** G113

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Magnesium	NELAP	0.050		**70.5**	mg/L	1	04/30/2026 12:28	255519
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/27/2026 22:43	255519
Contamination present in the MBLK for Cd. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**107**	µg/L	1	05/01/2026 12:06	255531
Barium	NELAP	2.5		**132**	µg/L	1	05/01/2026 12:06	255531
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 12:06	255531
Boron	NELAP	20.0		**2010**	µg/L	1	05/01/2026 12:06	255531
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 12:06	255531
Calcium	NELAP	0.100		**299**	mg/L	1	04/27/2026 17:41	255531
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:06	255531
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:06	255531
Copper	NELAP	5.0		**10.0**	µg/L	1	05/01/2026 12:06	255531
Iron	NELAP	40.0		**4200**	µg/L	1	05/01/2026 12:06	255531
Magnesium	NELAP	0.500		**102**	mg/L	10	04/30/2026 16:14	255531
Manganese	NELAP	7.0		**9460**	µg/L	1	05/01/2026 12:06	255531
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:06	255531
Potassium	NELAP	0.100		**3.60**	mg/L	1	04/27/2026 17:41	255531
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	05/01/2026 12:06	255531
Silver	NELAP	7.0		**< 7.0**	µg/L	1	05/01/2026 12:06	255531
Sodium	NELAP	0.050		**24.6**	mg/L	1	04/27/2026 17:41	255531
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 12:06	255531
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 12:06	255531
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**1.5**	µg/L	5	05/13/2026 18:13	255519
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 0:17	255519
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/13/2026 17:30	255531
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	05/13/2026 17:30	255531
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/04/2026 22:44	255531
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/14/2026 22:53	255531
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/27/2026 16:13	255547
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/27/2026 16:07	255547
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 17:27	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:14	255608
Alachlor	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:14	255608
Aldrin	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:14	255608
Dieldrin	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:14	255608
Endrin	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:14	255608
gamma-BHC	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:14	255608
Heptachlor	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:14	255608
Heptachlor epoxide	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:14	255608

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-005 **Client Sample ID:** G113

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Methoxychlor	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:14	255608
Toxaphene	NELAP	1.04		**ND**	µg/L	1	04/27/2026 13:14	255608
Chlordane	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:14	255608
Surr: Decachlorobiphenyl	*	19.9-155		**71.4**	%REC	1	04/27/2026 13:14	255608
Surr: Tetrachloro-m-xylene	*	36.1-128		**52.9**	%REC	1	04/27/2026 13:14	255608
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/27/2026 13:29	255608
Surr: Decachlorobiphenyl	*	5-174		**60.5**	%REC	1	04/27/2026 13:29	255608
Surr: Tetrachloro-meta-xylene	*	22.2-139		**62.8**	%REC	1	04/27/2026 13:29	255608
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.40		**ND**	µg/L	1	04/27/2026 23:28	255594
2,4-D	NELAP	0.60		**ND**	µg/L	1	04/27/2026 23:28	255594
Dalapon	NELAP	2.60		**ND**	µg/L	1	04/27/2026 23:28	255594
Dinoseb	NELAP	0.40		**ND**	µg/L	1	04/27/2026 23:28	255594
Pentachlorophenol	NELAP	0.20		**ND**	µg/L	1	04/27/2026 23:28	255594
Picloram	NELAP	1.00		**ND**	µg/L	1	04/27/2026 23:28	255594
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**82.8**	%REC	1	04/27/2026 23:28	255594
Elevated reporting limit due to sample composition.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/27/2026 19:23	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 19:23	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 19:23	255504
Carbofuran	*	0.60		**ND**	µg/L	1	04/27/2026 19:23	255504
Simazine	*	0.55		**ND**	µg/L	1	04/27/2026 19:23	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**62.5**	%REC	1	04/27/2026 19:23	255504
Surr: 2-Fluorophenol	*	1-135		**37.8**	%REC	1	04/27/2026 19:23	255504
Surr: Nitrobenzene-d5	*	45-133		**65.7**	%REC	1	04/27/2026 19:23	255504
Surr: Phenol-d5	*	1-73.7		**27.4**	%REC	1	04/27/2026 19:23	255504
Surr: p-Terphenyl-d14	*	46.2-128		**61.7**	%REC	1	04/27/2026 19:23	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/29/2026 11:32	255726
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/29/2026 11:32	255726
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/29/2026 11:32	255726
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:32	255726
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:32	255726
Di-n-butyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:32	255726
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:32	255726
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/29/2026 11:32	255726
Parathion	NELAP	5.0		**ND**	µg/L	1	04/29/2026 11:32	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**52.0**	%REC	1	04/29/2026 11:32	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**40.8**	%REC	1	04/29/2026 11:32	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**32.0**	%REC	1	04/29/2026 11:32	255726
Surr: Nitrobenzene-d5	*	23.6-113		**38.1**	%REC	1	04/29/2026 11:32	255726
Surr: Phenol-d5	*	15.9-72.2		**25.5**	%REC	1	04/29/2026 11:32	255726
Surr: p-Terphenyl-d14	*	17.9-114		**39.3**	%REC	1	04/29/2026 11:32	255726

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-005 **Client Sample ID:** G113

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		ND	µg/L	1	04/24/2026 16:18	255587
1,2-Dibromoethane	*	0.05		ND	µg/L	1	04/24/2026 16:18	255587
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,1,1-Trichloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,1,2,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,1,2-Trichloroethane	NELAP	0.50		ND	µg/L	1	04/28/2026 13:31	255771
1,1-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,1-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,2,3-Trichlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,2,3-Trichloropropane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,2,4-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,2-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,2-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,3,5-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,3-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,3-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
1,4-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
2,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
2-Butanone	NELAP	5.00		ND	µg/L	1	04/28/2026 13:31	255771
2-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/28/2026 13:31	255771
2-Hexanone	NELAP	10.0		ND	µg/L	1	04/28/2026 13:31	255771
4-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/28/2026 13:31	255771
4-Methyl-2-pentanone	NELAP	5.00		ND	µg/L	1	04/28/2026 13:31	255771
Acetone	NELAP	5.00		ND	µg/L	1	04/28/2026 13:31	255771
Acrolein	NELAP	5.00		ND	µg/L	1	04/28/2026 13:31	255771
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/28/2026 13:31	255771
Benzene	NELAP	0.50		ND	µg/L	1	04/28/2026 13:31	255771
Bromobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Bromochloromethane	NELAP	1.00		ND	µg/L	1	04/28/2026 13:31	255771
Bromodichloromethane	NELAP	1.00		ND	µg/L	1	04/28/2026 13:31	255771
Bromoform	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Bromomethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Carbon disulfide	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Carbon tetrachloride	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Chlorobenzene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Chloroethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Chloroform	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Chloromethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
cis-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
cis-1,3-Dichloropropene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Dibromochloromethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Dibromomethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Dichlorodifluoromethane	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771
Ethylbenzene	NELAP	1.00		ND	µg/L	1	04/28/2026 13:31	255771
Hexachlorobutadiene	NELAP	2.00		ND	µg/L	1	04/28/2026 13:31	255771

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-005 **Client Sample ID:** G113

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 13:31	255771
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Styrene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 13:31	255771
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/28/2026 13:31	255771
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Toluene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/28/2026 13:31	255771
Surr: 1,2-Dichloroethane-d4	*	80-120	S	**121.1**	%REC	1	04/28/2026 13:31	255771
Surr: 4-Bromofluorobenzene	*	80-120		**110.5**	%REC	1	04/28/2026 13:31	255771
Surr: Dibromofluoromethane	*	80-120		**102.9**	%REC	1	04/28/2026 13:31	255771
Surr: Toluene-d8	*	80-120		**105.8**	%REC	1	04/28/2026 13:31	255771

Surrogate recovery is outside control limits due to matrix interference.

Allowable Marginal Exceedance of 1,1,2,2-Tetrachloroethane and trans-1,4-Dichloro-2-butene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	04/22/2026 10:23	R383246
Depth to water	*	-5.00		**16.43**	ft	1	04/22/2026 10:23	R383246
Depth to water from measuring point	*	0		**16.43**	ft	1	04/22/2026 10:23	R383246
Elevation of groundwater surface	*	0		**536.67**	ft	1	04/22/2026 10:23	R383246
Measuring Point Elevation	*	0		**553.10**	ft	1	04/22/2026 10:23	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.8**	°F	1	04/22/2026 10:23	R383246
SW-846 9040B								
pH, Field	*	1.00		**6.69**		1	04/22/2026 10:23	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1780**	µmhos/cm @25C	1	04/22/2026 10:23	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**3.82**	mg/L	1	04/23/2026 14:54	R382764
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**3.84**	mg/L	1	04/23/2026 14:51	R382764
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 17:40	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:10	R382815
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**1590**	mg/L	1	04/24/2026 14:29	R383030
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 16:42	255472
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:39	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 17:08	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**36.2**	mg/L	10	04/26/2026 9:00	R382935
Sulfate	NELAP	10.0		**565**	mg/L	10	04/26/2026 9:00	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 8:47	R382935
Chloride	NELAP	5.00		**36.1**	mg/L	10	04/26/2026 8:47	R382935
Sulfate	NELAP	10.0		**562**	mg/L	10	04/26/2026 8:47	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**4.6**	mg/L	1	04/22/2026 21:54	R382728
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/27/2026 14:03	R382981
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**7460**	µg/L	1	04/24/2026 20:47	255439
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/24/2026 20:47	255439
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/24/2026 20:47	255439

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Magnesium	NELAP	0.050		**103**	mg/L	1	04/24/2026 20:47	255439
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/24/2026 20:47	255439
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**< 25.0**	µg/L	1	05/01/2026 10:55	255445
Barium	NELAP	2.5		**540**	µg/L	1	05/01/2026 10:55	255445
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 10:55	255445
Boron	NELAP	20.0		**7670**	µg/L	1	05/01/2026 10:55	255445
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 10:55	255445
Calcium	NELAP	0.100		**251**	mg/L	1	04/27/2026 19:51	255445
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:55	255445
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:55	255445
Copper	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:55	255445
Iron	NELAP	40.0		**31800**	µg/L	1	05/01/2026 10:55	255445
Magnesium	NELAP	0.050		**106**	mg/L	1	05/01/2026 10:55	255445
Manganese	NELAP	7.0		**400**	µg/L	1	05/01/2026 10:55	255445
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:55	255445
Potassium	NELAP	0.100		**1.99**	mg/L	1	04/27/2026 19:51	255445
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	05/01/2026 10:55	255445
Silver	NELAP	7.0		**< 7.0**	µg/L	1	05/01/2026 10:55	255445
Sodium	NELAP	0.050	B	**42.4**	mg/L	1	04/27/2026 19:51	255445
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 10:55	255445
Zinc	NELAP	10.0	B	**< 10.0**	µg/L	1	05/01/2026 10:55	255445
Contamination present in the MBLK for Zn. Sample results below the reporting limit are reportable per the TNI Standard.								
Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**9.7**	µg/L	5	05/23/2026 10:38	257064
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 21:14	255439
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 14:19	255445
Arsenic	NELAP	1.0		**10.5**	µg/L	5	05/05/2026 14:19	255445
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/08/2026 21:42	255445
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/05/2026 14:19	255445
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:43	255444
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:41	255444
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 19:09	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:27	255608
Alachlor	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:27	255608
Aldrin	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:27	255608
Dieldrin	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:27	255608
Endrin	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:27	255608
gamma-BHC	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:27	255608
Heptachlor	NELAP	0.04		**ND**	µg/L	1	04/27/2026 13:27	255608

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Heptachlor epoxide	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:27	255608
Methoxychlor	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:27	255608
Toxaphene	NELAP	1.02		**ND**	µg/L	1	04/27/2026 13:27	255608
Chlordane	NELAP	0.05		**ND**	µg/L	1	04/27/2026 13:27	255608
Surr: Decachlorobiphenyl	*	19.9-155		**45.5**	%REC	1	04/27/2026 13:27	255608
Surr: Tetrachloro-m-xylene	*	36.1-128		**57.0**	%REC	1	04/27/2026 13:27	255608
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/27/2026 13:45	255608
Surr: Decachlorobiphenyl	*	5-174		**40.3**	%REC	1	04/27/2026 13:45	255608
Surr: Tetrachloro-meta-xylene	*	22.2-139		**68.8**	%REC	1	04/27/2026 13:45	255608
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.40		**ND**	µg/L	1	04/27/2026 23:53	255414
2,4-D	NELAP	0.60		**ND**	µg/L	1	04/27/2026 23:53	255414
Dalapon	NELAP	2.60		**ND**	µg/L	1	04/27/2026 23:53	255414
Dinoseb	NELAP	0.40		**ND**	µg/L	1	04/27/2026 23:53	255414
Pentachlorophenol	NELAP	0.20		**ND**	µg/L	1	04/27/2026 23:53	255414
Picloram	NELAP	1.00		**ND**	µg/L	1	04/27/2026 23:53	255414
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**76.0**	%REC	1	04/27/2026 23:53	255414
Elevated reporting limit due to sample composition.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/27/2026 19:55	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 19:55	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 19:55	255504
Carbofuran	*	0.60		**ND**	µg/L	1	04/27/2026 19:55	255504
Simazine	*	0.55		**ND**	µg/L	1	04/27/2026 19:55	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**69.1**	%REC	1	04/27/2026 19:55	255504
Surr: 2-Fluorophenol	*	1-135		**48.5**	%REC	1	04/27/2026 19:55	255504
Surr: Nitrobenzene-d5	*	45-133		**72.9**	%REC	1	04/27/2026 19:55	255504
Surr: Phenol-d5	*	1-73.7		**33.4**	%REC	1	04/27/2026 19:55	255504
Surr: p-Terphenyl-d14	*	46.2-128		**77.3**	%REC	1	04/27/2026 19:55	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/29/2026 12:04	255726
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/29/2026 12:04	255726
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/29/2026 12:04	255726
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:04	255726
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:04	255726
Di-n-butyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:04	255726
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:04	255726
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:04	255726
Parathion	NELAP	5.0		**ND**	µg/L	1	04/29/2026 12:04	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**57.2**	%REC	1	04/29/2026 12:04	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**43.3**	%REC	1	04/29/2026 12:04	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**36.0**	%REC	1	04/29/2026 12:04	255726
Surr: Nitrobenzene-d5	*	23.6-113		**39.9**	%REC	1	04/29/2026 12:04	255726
Surr: Phenol-d5	*	15.9-72.2		**29.1**	%REC	1	04/29/2026 12:04	255726
Surr: p-Terphenyl-d14	*	17.9-114		**48.4**	%REC	1	04/29/2026 12:04	255726

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		ND	µg/L	1	04/24/2026 9:24	255511
1,2-Dibromoethane	*	0.05		ND	µg/L	1	04/24/2026 9:24	255511
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,1,1-Trichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,1,2,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,1,2-Trichloroethane	NELAP	0.50		ND	µg/L	1	04/24/2026 12:28	255667
1,1-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,1-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,2,3-Trichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,2,3-Trichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,2,4-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,2-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,2-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,3,5-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,3-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,3-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
1,4-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
2,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
2-Butanone	NELAP	5.00		ND	µg/L	1	04/24/2026 12:28	255667
2-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 12:28	255667
2-Hexanone	NELAP	10.0		ND	µg/L	1	04/24/2026 12:28	255667
4-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 12:28	255667
4-Methyl-2-pentanone	NELAP	5.00	B	ND	µg/L	1	04/24/2026 12:28	255667
Acetone	NELAP	5.00		ND	µg/L	1	04/24/2026 12:28	255667
Acrolein	NELAP	5.00		ND	µg/L	1	04/24/2026 12:28	255667
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/24/2026 12:28	255667
Benzene	NELAP	0.50		ND	µg/L	1	04/24/2026 12:28	255667
Bromobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Bromochloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 12:28	255667
Bromodichloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 12:28	255667
Bromoform	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Bromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Carbon disulfide	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Carbon tetrachloride	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Chlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Chloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Chloroform	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Chloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
cis-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
cis-1,3-Dichloropropene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Dibromochloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Dibromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Dichlorodifluoromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667
Ethylbenzene	NELAP	1.00		ND	µg/L	1	04/24/2026 12:28	255667
Hexachlorobutadiene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:28	255667

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Methylene chloride	NELAP	2.00	B	**ND**	µg/L	1	04/24/2026 12:28	255667
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 12:28	255667
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Styrene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 12:28	255667
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/24/2026 12:28	255667
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Toluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/24/2026 12:28	255667
Surr: 1,2-Dichloroethane-d4	*	80-120		**107.7**	%REC	1	04/24/2026 12:28	255667
Surr: 4-Bromofluorobenzene	*	80-120		**96.8**	%REC	1	04/24/2026 12:28	255667
Surr: Dibromofluoromethane	*	80-120		**97.0**	%REC	1	04/24/2026 12:28	255667
Surr: Toluene-d8	*	80-120		**104.2**	%REC	1	04/24/2026 12:28	255667

Contamination present in the MBLK for multiple analytes. Sample results below the reporting limit are reportable per the TNI Standard.

Allowable Marginal Exceedance of Toluene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-007 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	04/22/2026 11:25	R383246
Depth to water	*	-5.00		**26.46**	ft	1	04/22/2026 11:25	R383246
Depth to water from measuring point	*	0		**28.33**	ft	1	04/22/2026 11:25	R383246
Elevation of groundwater surface	*	0		**527.27**	ft	1	04/22/2026 11:25	R383246
Measuring Point Elevation	*	0		**555.60**	ft	1	04/22/2026 11:25	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.6**	°F	1	04/22/2026 11:25	R383246
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	04/22/2026 11:25	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1400**	µmhos/cm @25C	1	04/22/2026 11:25	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	1.00		**8.59**	mg/L	10	04/23/2026 15:01	R382764
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	1.00		**7.75**	mg/L	10	04/23/2026 21:35	R382764
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 17:41	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:11	R382815
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**1090**	mg/L	1	04/24/2026 14:29	R383030
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 16:47	255472
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:39	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 17:25	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**28.0**	mg/L	10	04/26/2026 9:25	R382935
Sulfate	NELAP	10.0		**311**	mg/L	10	04/26/2026 9:25	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 9:12	R382935
Chloride	NELAP	5.00		**27.9**	mg/L	10	04/26/2026 9:12	R382935
Sulfate	NELAP	10.0		**309**	mg/L	10	04/26/2026 9:12	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**5.8**	mg/L	1	04/22/2026 22:06	R382728
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/27/2026 13:59	R382981
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**3730**	µg/L	1	04/24/2026 20:49	255439
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/24/2026 20:49	255439
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/24/2026 20:49	255439

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-007 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Magnesium	NELAP	0.050		**79.4**	mg/L	1	04/24/2026 20:49	255439
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/24/2026 20:49	255439
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**< 25.0**	µg/L	1	05/01/2026 10:56	255445
Barium	NELAP	2.5		**457**	µg/L	1	05/01/2026 10:56	255445
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 10:56	255445
Boron	NELAP	20.0		**3800**	µg/L	1	05/01/2026 10:56	255445
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 10:56	255445
Calcium	NELAP	0.100		**182**	mg/L	1	04/27/2026 19:53	255445
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:56	255445
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:56	255445
Copper	NELAP	5.0		**18.1**	µg/L	1	05/01/2026 10:56	255445
Iron	NELAP	40.0		**20900**	µg/L	1	05/01/2026 10:56	255445
Magnesium	NELAP	0.050		**81.8**	mg/L	1	05/01/2026 10:56	255445
Manganese	NELAP	7.0		**209**	µg/L	1	05/01/2026 10:56	255445
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:56	255445
Potassium	NELAP	0.100		**3.26**	mg/L	1	04/27/2026 19:53	255445
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	05/01/2026 10:56	255445
Silver	NELAP	7.0		**< 7.0**	µg/L	1	05/01/2026 10:56	255445
Sodium	NELAP	0.050	B	**44.6**	mg/L	1	04/27/2026 19:53	255445
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 10:56	255445
Zinc	NELAP	10.0	B	**< 10.0**	µg/L	1	05/01/2026 10:56	255445
Contamination present in the MBLK for Zn. Sample results below the reporting limit are reportable per the TNI Standard.								
Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**11.1**	µg/L	5	05/09/2026 3:29	255439
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 21:18	255439
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 14:22	255445
Arsenic	NELAP	1.0		**11.4**	µg/L	5	05/05/2026 14:22	255445
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/08/2026 21:46	255445
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/05/2026 14:22	255445
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:47	255444
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:45	255444
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 19:24	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:49	255656
Alachlor	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:49	255656
Aldrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 11:49	255656
Dieldrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 11:49	255656
Endrin	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:49	255656
gamma-BHC	NELAP	0.05		**ND**	µg/L	1	04/28/2026 11:49	255656
Heptachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 11:49	255656

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-007 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Heptachlor epoxide	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:49	255656
Methoxychlor	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:49	255656
Toxaphene	NELAP	1.16		**ND**	µg/L	1	04/28/2026 11:49	255656
Chlordane	NELAP	0.06		**ND**	µg/L	1	04/28/2026 11:49	255656
Surr: Decachlorobiphenyl	*	19.9-155		**60.1**	%REC	1	04/28/2026 11:49	255656
Surr: Tetrachloro-m-xylene	*	36.1-128		**71.6**	%REC	1	04/28/2026 11:49	255656
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/28/2026 11:33	255656
Surr: Decachlorobiphenyl	*	5-174		**59.5**	%REC	1	04/28/2026 11:33	255656
Surr: Tetrachloro-meta-xylene	*	22.2-139		**86.2**	%REC	1	04/28/2026 11:33	255656
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.40		**ND**	µg/L	1	04/28/2026 0:17	255414
2,4-D	NELAP	0.60		**ND**	µg/L	1	04/28/2026 0:17	255414
Dalapon	NELAP	2.60		**ND**	µg/L	1	04/28/2026 0:17	255414
Dinoseb	NELAP	0.40		**ND**	µg/L	1	04/28/2026 0:17	255414
Pentachlorophenol	NELAP	0.20		**ND**	µg/L	1	04/28/2026 0:17	255414
Picloram	NELAP	1.00		**ND**	µg/L	1	04/28/2026 0:17	255414
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**75.5**	%REC	1	04/28/2026 0:17	255414
Elevated reporting limit due to sample composition.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/27/2026 20:28	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 20:28	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 20:28	255504
Carbofuran	*	0.60		**ND**	µg/L	1	04/27/2026 20:28	255504
Simazine	*	0.55		**ND**	µg/L	1	04/27/2026 20:28	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**62.9**	%REC	1	04/27/2026 20:28	255504
Surr: 2-Fluorophenol	*	1-135		**45.6**	%REC	1	04/27/2026 20:28	255504
Surr: Nitrobenzene-d5	*	45-133		**67.5**	%REC	1	04/27/2026 20:28	255504
Surr: Phenol-d5	*	1-73.7		**30.6**	%REC	1	04/27/2026 20:28	255504
Surr: p-Terphenyl-d14	*	46.2-128		**69.9**	%REC	1	04/27/2026 20:28	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/29/2026 12:36	255726
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/29/2026 12:36	255726
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/29/2026 12:36	255726
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:36	255726
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:36	255726
Di-n-butyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:36	255726
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:36	255726
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/29/2026 12:36	255726
Parathion	NELAP	5.0		**ND**	µg/L	1	04/29/2026 12:36	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**53.3**	%REC	1	04/29/2026 12:36	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**42.8**	%REC	1	04/29/2026 12:36	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**36.7**	%REC	1	04/29/2026 12:36	255726
Surr: Nitrobenzene-d5	*	23.6-113		**40.8**	%REC	1	04/29/2026 12:36	255726
Surr: Phenol-d5	*	15.9-72.2		**28.7**	%REC	1	04/29/2026 12:36	255726
Surr: p-Terphenyl-d14	*	17.9-114		**43.1**	%REC	1	04/29/2026 12:36	255726

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-007 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		ND	µg/L	1	04/24/2026 9:35	255511
1,2-Dibromoethane	*	0.05		ND	µg/L	1	04/24/2026 9:35	255511
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,1,1-Trichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,1,2,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,1,2-Trichloroethane	NELAP	0.50		ND	µg/L	1	04/24/2026 12:54	255667
1,1-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,1-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,2,3-Trichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,2,3-Trichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,2,4-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,2-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,2-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,3,5-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,3-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,3-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
1,4-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
2,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
2-Butanone	NELAP	5.00		ND	µg/L	1	04/24/2026 12:54	255667
2-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 12:54	255667
2-Hexanone	NELAP	10.0		ND	µg/L	1	04/24/2026 12:54	255667
4-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 12:54	255667
4-Methyl-2-pentanone	NELAP	5.00	B	ND	µg/L	1	04/24/2026 12:54	255667
Acetone	NELAP	5.00		ND	µg/L	1	04/24/2026 12:54	255667
Acrolein	NELAP	5.00		ND	µg/L	1	04/24/2026 12:54	255667
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/24/2026 12:54	255667
Benzene	NELAP	0.50		ND	µg/L	1	04/24/2026 12:54	255667
Bromobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Bromochloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 12:54	255667
Bromodichloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 12:54	255667
Bromoform	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Bromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Carbon disulfide	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Carbon tetrachloride	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Chlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Chloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Chloroform	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Chloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
cis-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
cis-1,3-Dichloropropene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Dibromochloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Dibromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Dichlorodifluoromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667
Ethylbenzene	NELAP	1.00		ND	µg/L	1	04/24/2026 12:54	255667
Hexachlorobutadiene	NELAP	2.00		ND	µg/L	1	04/24/2026 12:54	255667

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-007 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Methylene chloride	NELAP	2.00	B	**ND**	µg/L	1	04/24/2026 12:54	255667
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 12:54	255667
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Styrene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 12:54	255667
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/24/2026 12:54	255667
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Toluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/24/2026 12:54	255667
Surr: 1,2-Dichloroethane-d4	*	80-120		**114.7**	%REC	1	04/24/2026 12:54	255667
Surr: 4-Bromofluorobenzene	*	80-120		**93.9**	%REC	1	04/24/2026 12:54	255667
Surr: Dibromofluoromethane	*	80-120		**101.4**	%REC	1	04/24/2026 12:54	255667
Surr: Toluene-d8	*	80-120		**91.5**	%REC	1	04/24/2026 12:54	255667

Contamination present in the MBLK for multiple analytes. Sample results below the reporting limit are reportable per the TNI Standard.

Allowable Marginal Exceedance of Toluene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-008 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**505.11**	ft	1	04/22/2026 12:21	R383246
Depth to water	*	-5.00		**28.21**	ft	1	04/22/2026 12:21	R383246
Depth to water from measuring point	*	0		**29.95**	ft	1	04/22/2026 12:21	R383246
Elevation of groundwater surface	*	0		**524.45**	ft	1	04/22/2026 12:21	R383246
Measuring Point Elevation	*	0		**554.40**	ft	1	04/22/2026 12:21	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.9**	°F	1	04/22/2026 12:21	R383246
SW-846 9040B								
pH, Field	*	1.00		**6.85**		1	04/22/2026 12:21	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1580**	µmhos/cm @25C	1	04/22/2026 12:21	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:35	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**3.06**	mg/L	1	04/23/2026 15:09	R382764
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**1.84**	mg/L	1	04/23/2026 15:06	R382764
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 17:42	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:12	R382815
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**1450**	mg/L	1	04/24/2026 14:29	R383030
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 16:49	255472
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:39	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 17:30	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**36.2**	mg/L	10	04/26/2026 9:50	R382935
Sulfate	NELAP	10.0		**513**	mg/L	10	04/26/2026 9:50	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 9:38	R382935
Chloride	NELAP	5.00		**37.7**	mg/L	10	04/26/2026 9:38	R382935
Sulfate	NELAP	10.0		**537**	mg/L	10	04/26/2026 9:38	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**4.4**	mg/L	1	04/22/2026 22:12	R382728
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/27/2026 14:29	R382981
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**10500**	µg/L	1	04/24/2026 20:58	255439
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/24/2026 20:58	255439
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/24/2026 20:58	255439

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-008 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Magnesium	NELAP	0.050		**91.4**	mg/L	1	04/24/2026 20:58	255439
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/24/2026 20:58	255439
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**< 25.0**	µg/L	1	05/01/2026 10:58	255445
Barium	NELAP	2.5		**267**	µg/L	1	05/01/2026 10:58	255445
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 10:58	255445
Boron	NELAP	20.0		**11200**	µg/L	1	05/01/2026 10:58	255445
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 10:58	255445
Calcium	NELAP	0.100		**239**	mg/L	1	04/27/2026 19:54	255445
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:58	255445
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:58	255445
Copper	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:58	255445
Iron	NELAP	40.0		**23000**	µg/L	1	05/01/2026 10:58	255445
Magnesium	NELAP	0.050		**94.1**	mg/L	1	05/01/2026 10:58	255445
Manganese	NELAP	7.0		**1130**	µg/L	1	05/01/2026 10:58	255445
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 10:58	255445
Potassium	NELAP	0.100		**2.65**	mg/L	1	04/27/2026 19:54	255445
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	05/01/2026 10:58	255445
Silver	NELAP	7.0		**< 7.0**	µg/L	1	05/01/2026 10:58	255445
Sodium	NELAP	0.050	B	**41.3**	mg/L	1	04/27/2026 19:54	255445
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 10:58	255445
Zinc	NELAP	10.0	B	**< 10.0**	µg/L	1	05/01/2026 10:58	255445
Contamination present in the MBLK for Zn. Sample results below the reporting limit are reportable per the TNI Standard.								
Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**1.6**	µg/L	5	05/15/2026 10:55	255439
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 21:23	255439
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 14:24	255445
Arsenic	NELAP	1.0		**1.6**	µg/L	5	05/05/2026 14:24	255445
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/08/2026 21:50	255445
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/05/2026 14:24	255445
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:51	255444
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:49	255444
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 19:39	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:02	255656
Alachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:02	255656
Aldrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:02	255656
Dieldrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:02	255656
Endrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:02	255656
gamma-BHC	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:02	255656
Heptachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:02	255656

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-008 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Heptachlor epoxide	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:02	255656
Methoxychlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:02	255656
Toxaphene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 12:02	255656
Chlordane	NELAP	0.10		**ND**	µg/L	1	04/28/2026 12:02	255656
Surr: Decachlorobiphenyl	*	19.9-155		**54.7**	%REC	1	04/28/2026 12:02	255656
Surr: Tetrachloro-m-xylene	*	36.1-128		**86.4**	%REC	1	04/28/2026 12:02	255656
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/28/2026 11:48	255656
Surr: Decachlorobiphenyl	*	5-174		**54.5**	%REC	1	04/28/2026 11:48	255656
Surr: Tetrachloro-meta-xylene	*	22.2-139		**86.0**	%REC	1	04/28/2026 11:48	255656
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.40		**ND**	µg/L	1	04/28/2026 0:42	255414
2,4-D	NELAP	0.60		**ND**	µg/L	1	04/28/2026 0:42	255414
Dalapon	NELAP	2.60		**ND**	µg/L	1	04/28/2026 0:42	255414
Dinoseb	NELAP	0.40		**ND**	µg/L	1	04/28/2026 0:42	255414
Pentachlorophenol	NELAP	0.20		**ND**	µg/L	1	04/28/2026 0:42	255414
Picloram	NELAP	1.00		**ND**	µg/L	1	04/28/2026 0:42	255414
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**67.6**	%REC	1	04/28/2026 0:42	255414
Elevated reporting limit due to sample composition.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/27/2026 21:00	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 21:00	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 21:00	255504
Carbofuran	*	0.60		**ND**	µg/L	1	04/27/2026 21:00	255504
Simazine	*	0.55		**ND**	µg/L	1	04/27/2026 21:00	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**65.1**	%REC	1	04/27/2026 21:00	255504
Surr: 2-Fluorophenol	*	1-135		**46.0**	%REC	1	04/27/2026 21:00	255504
Surr: Nitrobenzene-d5	*	45-133		**68.3**	%REC	1	04/27/2026 21:00	255504
Surr: Phenol-d5	*	1-73.7		**31.4**	%REC	1	04/27/2026 21:00	255504
Surr: p-Terphenyl-d14	*	46.2-128		**70.0**	%REC	1	04/27/2026 21:00	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/29/2026 13:08	255726
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/29/2026 13:08	255726
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/29/2026 13:08	255726
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:08	255726
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:08	255726
Di-n-butyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:08	255726
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:08	255726
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:08	255726
Parathion	NELAP	5.0		**ND**	µg/L	1	04/29/2026 13:08	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**50.7**	%REC	1	04/29/2026 13:08	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**40.2**	%REC	1	04/29/2026 13:08	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**33.3**	%REC	1	04/29/2026 13:08	255726
Surr: Nitrobenzene-d5	*	23.6-113		**38.2**	%REC	1	04/29/2026 13:08	255726
Surr: Phenol-d5	*	15.9-72.2		**26.0**	%REC	1	04/29/2026 13:08	255726
Surr: p-Terphenyl-d14	*	17.9-114		**42.4**	%REC	1	04/29/2026 13:08	255726

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-008 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		ND	µg/L	1	04/24/2026 9:46	255511
1,2-Dibromoethane	*	0.05		ND	µg/L	1	04/24/2026 9:46	255511
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,1,1-Trichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,1,2,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,1,2-Trichloroethane	NELAP	0.50		ND	µg/L	1	04/24/2026 13:20	255667
1,1-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,1-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,2,3-Trichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,2,3-Trichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,2,4-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,2-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,2-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,3,5-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,3-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,3-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
1,4-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
2,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
2-Butanone	NELAP	5.00		ND	µg/L	1	04/24/2026 13:20	255667
2-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 13:20	255667
2-Hexanone	NELAP	10.0		ND	µg/L	1	04/24/2026 13:20	255667
4-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 13:20	255667
4-Methyl-2-pentanone	NELAP	5.00	B	ND	µg/L	1	04/24/2026 13:20	255667
Acetone	NELAP	5.00		ND	µg/L	1	04/24/2026 13:20	255667
Acrolein	NELAP	5.00		ND	µg/L	1	04/24/2026 13:20	255667
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/24/2026 13:20	255667
Benzene	NELAP	0.50		ND	µg/L	1	04/24/2026 13:20	255667
Bromobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Bromochloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 13:20	255667
Bromodichloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 13:20	255667
Bromoform	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Bromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Carbon disulfide	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Carbon tetrachloride	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Chlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Chloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Chloroform	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Chloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
cis-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
cis-1,3-Dichloropropene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Dibromochloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Dibromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Dichlorodifluoromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667
Ethylbenzene	NELAP	1.00		ND	µg/L	1	04/24/2026 13:20	255667
Hexachlorobutadiene	NELAP	2.00		ND	µg/L	1	04/24/2026 13:20	255667

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-008 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 12:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Methylene chloride	NELAP	2.00	B	**ND**	µg/L	1	04/24/2026 13:20	255667
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 13:20	255667
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Styrene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 13:20	255667
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/24/2026 13:20	255667
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Toluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/24/2026 13:20	255667
Surr: 1,2-Dichloroethane-d4	*	80-120		**107.8**	%REC	1	04/24/2026 13:20	255667
Surr: 4-Bromofluorobenzene	*	80-120		**95.6**	%REC	1	04/24/2026 13:20	255667
Surr: Dibromofluoromethane	*	80-120		**96.6**	%REC	1	04/24/2026 13:20	255667
Surr: Toluene-d8	*	80-120		**87.5**	%REC	1	04/24/2026 13:20	255667

Contamination present in the MBLK for multiple analytes. Sample results below the reporting limit are reportable per the TNI Standard.

Allowable Marginal Exceedance of Toluene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-009 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	04/23/2026 10:02	R383246
Depth to water	*	-5.00		**12.21**	ft	1	04/23/2026 10:02	R383246
Depth to water from measuring point	*	0		**14.96**	ft	1	04/23/2026 10:02	R383246
Elevation of groundwater surface	*	0		**540.64**	ft	1	04/23/2026 10:02	R383246
Measuring Point Elevation	*	0		**555.60**	ft	1	04/23/2026 10:02	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.6**	°F	1	04/23/2026 10:02	R383246
SW-846 9040B								
pH, Field	*	1.00		**6.72**		1	04/23/2026 10:02	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1290**	µmhos/cm @25C	1	04/23/2026 10:02	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**1.61**	mg/L	1	04/24/2026 18:28	R382849
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**< 0.10**	mg/L	1	04/24/2026 18:10	R382849
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**0.139**	mg/L	1	04/23/2026 19:31	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.100		**0.926**	mg/L	2	04/24/2026 17:47	R382876
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**1140**	mg/L	1	04/27/2026 10:20	R383124
Stable weight could not be achieved after multiple cycles of drying, cooling, and weighing. Final weight is reported.								
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 21:22	255476
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:39	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 17:56	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**37.1**	mg/L	10	04/26/2026 10:16	R382935
Sulfate	NELAP	10.0		**395**	mg/L	10	04/26/2026 10:16	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 10:03	R382935
Chloride	NELAP	5.00		**36.9**	mg/L	10	04/26/2026 10:03	R382935
Sulfate	NELAP	10.0		**396**	mg/L	10	04/26/2026 10:03	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**3.2**	mg/L	1	04/28/2026 14:48	R383084
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/28/2026 12:21	R383018
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**8670**	µg/L	1	04/27/2026 22:45	255519
Cadmium	NELAP	2.0	B	**< 2.0**	µg/L	1	04/27/2026 22:45	255519

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-009 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/27/2026 22:45	255519
Magnesium	NELAP	0.050		**83.1**	mg/L	1	04/30/2026 12:30	255519
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/27/2026 22:45	255519
Contamination present in the MBLK for Cd. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**< 25.0**	µg/L	1	05/01/2026 12:07	255531
Barium	NELAP	2.5		**115**	µg/L	1	05/01/2026 12:07	255531
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	05/01/2026 12:07	255531
Boron	NELAP	20.0	S	**10300**	µg/L	1	05/01/2026 12:07	255531
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	05/01/2026 12:07	255531
Calcium	NELAP	0.100	S	**184**	mg/L	1	04/27/2026 17:42	255531
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:07	255531
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:07	255531
Copper	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:07	255531
Iron	NELAP	40.0	S	**8140**	µg/L	1	05/01/2026 12:07	255531
Magnesium	NELAP	0.500	S	**118**	mg/L	10	04/30/2026 16:15	255531
Manganese	NELAP	7.0		**156**	µg/L	1	05/01/2026 12:07	255531
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	05/01/2026 12:07	255531
Potassium	NELAP	0.100		**2.27**	mg/L	1	04/27/2026 17:42	255531
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	05/01/2026 12:07	255531
Silver	NELAP	7.0		**< 7.0**	µg/L	1	05/01/2026 12:07	255531
Sodium	NELAP	0.050		**33.2**	mg/L	1	04/27/2026 17:42	255531
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 12:07	255531
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	05/01/2026 12:07	255531
Matrix spike control limits for B and Fe are not applicable due to high sample/spike ratio.								
Matrix spike control limits for Ca and Mg are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**143**	µg/L	5	05/12/2026 19:01	255519
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 0:21	255519
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/13/2026 17:34	255531
Arsenic	NELAP	1.0		**18.7**	µg/L	5	05/13/2026 17:34	255531
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/04/2026 23:01	255531
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/14/2026 23:31	255531
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/27/2026 16:17	255547
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/27/2026 16:15	255547
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 19:54	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:16	255656
Alachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:16	255656
Aldrin	NELAP	0.04		**ND**	µg/L	1	04/28/2026 12:16	255656
Dieldrin	NELAP	0.04		**ND**	µg/L	1	04/28/2026 12:16	255656
Endrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:16	255656

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-009 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
gamma-BHC	NELAP	0.04		**ND**	µg/L	1	04/28/2026 12:16	255656
Heptachlor	NELAP	0.04		**ND**	µg/L	1	04/28/2026 12:16	255656
Heptachlor epoxide	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:16	255656
Methoxychlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:16	255656
Toxaphene	NELAP	1.02		**ND**	µg/L	1	04/28/2026 12:16	255656
Chlordane	NELAP	0.05		**ND**	µg/L	1	04/28/2026 12:16	255656
Surr: Decachlorobiphenyl	*	19.9-155		**60.3**	%REC	1	04/28/2026 12:16	255656
Surr: Tetrachloro-m-xylene	*	36.1-128		**69.1**	%REC	1	04/28/2026 12:16	255656
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/28/2026 12:04	255656
Surr: Decachlorobiphenyl	*	5-174		**56.2**	%REC	1	04/28/2026 12:04	255656
Surr: Tetrachloro-meta-xylene	*	22.2-139		**80.1**	%REC	1	04/28/2026 12:04	255656
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.40		**ND**	µg/L	1	04/28/2026 8:31	255594
2,4-D	NELAP	0.60		**ND**	µg/L	1	04/28/2026 8:31	255594
Dalapon	NELAP	2.60		**ND**	µg/L	1	04/28/2026 8:31	255594
Dinoseb	NELAP	0.40		**ND**	µg/L	1	04/28/2026 8:31	255594
Pentachlorophenol	NELAP	0.20		**ND**	µg/L	1	04/28/2026 8:31	255594
Picloram	NELAP	1.00		**ND**	µg/L	1	04/28/2026 8:31	255594
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**75.9**	%REC	1	04/28/2026 8:31	255594
Elevated reporting limit due to sample composition.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/27/2026 21:33	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 21:33	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 21:33	255504
Carbofuran	*	0.60		**ND**	µg/L	1	04/27/2026 21:33	255504
Simazine	*	0.55		**ND**	µg/L	1	04/27/2026 21:33	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**72.2**	%REC	1	04/27/2026 21:33	255504
Surr: 2-Fluorophenol	*	1-135		**51.0**	%REC	1	04/27/2026 21:33	255504
Surr: Nitrobenzene-d5	*	45-133		**75.8**	%REC	1	04/27/2026 21:33	255504
Surr: Phenol-d5	*	1-73.7		**35.2**	%REC	1	04/27/2026 21:33	255504
Surr: p-Terphenyl-d14	*	46.2-128		**80.1**	%REC	1	04/27/2026 21:33	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/29/2026 13:41	255726
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/29/2026 13:41	255726
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/29/2026 13:41	255726
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:41	255726
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:41	255726
Di-n-butyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:41	255726
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:41	255726
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/29/2026 13:41	255726
Parathion	NELAP	5.0		**ND**	µg/L	1	04/29/2026 13:41	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**50.2**	%REC	1	04/29/2026 13:41	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**35.5**	%REC	1	04/29/2026 13:41	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**30.8**	%REC	1	04/29/2026 13:41	255726
Surr: Nitrobenzene-d5	*	23.6-113		**34.1**	%REC	1	04/29/2026 13:41	255726

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-009 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Surr: Phenol-d5	*	15.9-72.2		**24.0**	%REC	1	04/29/2026 13:41	255726
Surr: p-Terphenyl-d14	*	17.9-114		**43.6**	%REC	1	04/29/2026 13:41	255726
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		**ND**	µg/L	1	04/24/2026 16:29	255587
1,2-Dibromoethane	*	0.05		**ND**	µg/L	1	04/24/2026 16:29	255587
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,1,1-Trichloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,1,2,2-Tetrachloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,1,2-Trichloroethane	NELAP	0.50		**ND**	µg/L	1	04/28/2026 14:19	255771
1,1-Dichloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,1-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,2,3-Trichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,2,3-Trichloropropane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,2,4-Trimethylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,2-Dichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,2-Dichloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,2-Dichloropropane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,3,5-Trimethylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,3-Dichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,3-Dichloropropane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,4-Dichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
2,2-Dichloropropane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
2-Butanone	NELAP	5.00		**ND**	µg/L	1	04/28/2026 14:19	255771
2-Chlorotoluene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 14:19	255771
2-Hexanone	NELAP	10.0		**ND**	µg/L	1	04/28/2026 14:19	255771
4-Chlorotoluene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 14:19	255771
4-Methyl-2-pentanone	NELAP	5.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Acetone	NELAP	5.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Acrolein	NELAP	5.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Acrylonitrile	NELAP	5.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Benzene	NELAP	0.50		**ND**	µg/L	1	04/28/2026 14:19	255771
Bromobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Bromochloromethane	NELAP	1.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Bromodichloromethane	NELAP	1.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Bromoform	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Bromomethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Carbon disulfide	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Carbon tetrachloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Chlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Chloroethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Chloroform	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Chloromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
cis-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
cis-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Dibromochloromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Dibromomethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-009 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 04/23/2026 10:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Dichlorodifluoromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Hexachlorobutadiene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 14:19	255771
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Styrene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 14:19	255771
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/28/2026 14:19	255771
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Toluene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/28/2026 14:19	255771
Surr: 1,2-Dichloroethane-d4	*	80-120	S	**122.6**	%REC	1	04/28/2026 14:19	255771
Surr: 4-Bromofluorobenzene	*	80-120		**110.1**	%REC	1	04/28/2026 14:19	255771
Surr: Dibromofluoromethane	*	80-120		**104.0**	%REC	1	04/28/2026 14:19	255771
Surr: Toluene-d8	*	80-120		**105.3**	%REC	1	04/28/2026 14:19	255771

Surrogate recovery is outside control limits due to matrix interference.

Allowable Marginal Exceedance of 1,1,2,2-Tetrachloroethane and trans-1,4-Dichloro-2-butene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-010 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	04/22/2026 10:19	R383246
Depth to water	*	-5.00		**1.14**	ft	1	04/22/2026 10:19	R383246
Depth to water from measuring point	*	0		**4.44**	ft	1	04/22/2026 10:19	R383246
Elevation of groundwater surface	*	0		**525.54**	ft	1	04/22/2026 10:19	R383246
Measuring Point Elevation	*	0		**529.98**	ft	1	04/22/2026 10:19	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.3**	°F	1	04/22/2026 10:19	R383246
SW-846 9040B								
pH, Field	*	1.00		**6.61**		1	04/22/2026 10:19	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**821**	µmhos/cm @25C	1	04/22/2026 10:19	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**3.97**	mg/L	1	04/23/2026 15:36	R382764
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.20		**4.19**	mg/L	2	04/24/2026 18:33	R382849
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 17:43	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:13	R382815
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**782**	mg/L	1	04/24/2026 14:34	R383030
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 16:54	255472
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:40	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 18:00	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**24.8**	mg/L	10	04/26/2026 11:19	R382935
Sulfate	NELAP	10.0		**135**	mg/L	10	04/26/2026 11:19	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 11:06	R382935
Chloride	NELAP	5.00		**18.8**	mg/L	10	04/26/2026 11:06	R382935
Sulfate	NELAP	10.0		**43.9**	mg/L	10	04/26/2026 11:06	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**4.5**	mg/L	1	04/22/2026 22:18	R382728
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/27/2026 14:16	R382981
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**2480**	µg/L	1	04/24/2026 21:00	255439
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/24/2026 21:00	255439
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/24/2026 21:00	255439

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-010 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Magnesium	NELAP	0.050		**58.1**	mg/L	1	04/24/2026 21:00	255439
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/24/2026 21:00	255439
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**< 25.0**	µg/L	1	04/27/2026 20:04	255445
Barium	NELAP	2.5		**275**	µg/L	1	04/27/2026 20:04	255445
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/27/2026 20:04	255445
Boron	NELAP	20.0		**1270**	µg/L	1	04/27/2026 20:04	255445
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/27/2026 20:04	255445
Calcium	NELAP	0.100		**107**	mg/L	1	04/27/2026 20:04	255445
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:04	255445
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:04	255445
Copper	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:04	255445
Iron	NELAP	40.0		**4060**	µg/L	1	04/27/2026 20:04	255445
Magnesium	NELAP	0.050		**46.5**	mg/L	1	05/01/2026 11:00	255445
Manganese	NELAP	7.0		**176**	µg/L	1	04/27/2026 20:04	255445
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:04	255445
Potassium	NELAP	0.100		**1.71**	mg/L	1	04/27/2026 20:04	255445
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	04/27/2026 20:04	255445
Silver	NELAP	7.0		**< 7.0**	µg/L	1	04/27/2026 20:04	255445
Sodium	NELAP	0.050	B	**28.4**	mg/L	1	04/27/2026 20:04	255445
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	04/27/2026 20:04	255445
Zinc	NELAP	10.0	B	**< 10.0**	µg/L	1	04/27/2026 20:04	255445
Contamination present in the MBLK for Zn. Sample results below the reporting limit are reportable per the TNI Standard.								
Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**7.0**	µg/L	5	05/09/2026 3:39	255439
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 21:27	255439
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 14:27	255445
Arsenic	NELAP	1.0		**2.1**	µg/L	5	05/05/2026 14:27	255445
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/08/2026 21:53	255445
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/05/2026 14:27	255445
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 17:00	255444
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 16:58	255444
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 20:09	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:10	255656
Alachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:10	255656
Aldrin	NELAP	0.04		**ND**	µg/L	1	04/28/2026 13:10	255656
Dieldrin	NELAP	0.04		**ND**	µg/L	1	04/28/2026 13:10	255656
Endrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:10	255656
gamma-BHC	NELAP	0.04		**ND**	µg/L	1	04/28/2026 13:10	255656
Heptachlor	NELAP	0.04		**ND**	µg/L	1	04/28/2026 13:10	255656

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-010 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Heptachlor epoxide	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:10	255656
Methoxychlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:10	255656
Toxaphene	NELAP	1.02		**ND**	µg/L	1	04/28/2026 13:10	255656
Chlordane	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:10	255656
Surr: Decachlorobiphenyl	*	19.9-155		**67.0**	%REC	1	04/28/2026 13:10	255656
Surr: Tetrachloro-m-xylene	*	36.1-128		**63.1**	%REC	1	04/28/2026 13:10	255656
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/28/2026 12:19	255656
Surr: Decachlorobiphenyl	*	5-174		**61.6**	%REC	1	04/28/2026 12:19	255656
Surr: Tetrachloro-meta-xylene	*	22.2-139		**74.0**	%REC	1	04/28/2026 12:19	255656
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.40		**ND**	µg/L	1	04/28/2026 1:07	255414
2,4-D	NELAP	0.60		**ND**	µg/L	1	04/28/2026 1:07	255414
Dalapon	NELAP	2.60		**ND**	µg/L	1	04/28/2026 1:07	255414
Dinoseb	NELAP	0.40		**ND**	µg/L	1	04/28/2026 1:07	255414
Pentachlorophenol	NELAP	0.20		**ND**	µg/L	1	04/28/2026 1:07	255414
Picloram	NELAP	1.00		**ND**	µg/L	1	04/28/2026 1:07	255414
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**75.8**	%REC	1	04/28/2026 1:07	255414
Elevated reporting limit due to sample composition.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/27/2026 22:06	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 22:06	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 22:06	255504
Carbofuran	*	0.60		**ND**	µg/L	1	04/27/2026 22:06	255504
Simazine	*	0.55		**ND**	µg/L	1	04/27/2026 22:06	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**61.6**	%REC	1	04/27/2026 22:06	255504
Surr: 2-Fluorophenol	*	1-135		**45.2**	%REC	1	04/27/2026 22:06	255504
Surr: Nitrobenzene-d5	*	45-133		**66.8**	%REC	1	04/27/2026 22:06	255504
Surr: Phenol-d5	*	1-73.7		**30.3**	%REC	1	04/27/2026 22:06	255504
Surr: p-Terphenyl-d14	*	46.2-128		**73.2**	%REC	1	04/27/2026 22:06	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/29/2026 14:13	255726
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/29/2026 14:13	255726
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/29/2026 14:13	255726
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:13	255726
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:13	255726
Di-n-butyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:13	255726
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:13	255726
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:13	255726
Parathion	NELAP	5.0		**ND**	µg/L	1	04/29/2026 14:13	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**50.5**	%REC	1	04/29/2026 14:13	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**39.3**	%REC	1	04/29/2026 14:13	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**32.8**	%REC	1	04/29/2026 14:13	255726
Surr: Nitrobenzene-d5	*	23.6-113		**35.9**	%REC	1	04/29/2026 14:13	255726
Surr: Phenol-d5	*	15.9-72.2		**26.0**	%REC	1	04/29/2026 14:13	255726
Surr: p-Terphenyl-d14	*	17.9-114		**41.7**	%REC	1	04/29/2026 14:13	255726

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-010 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		ND	µg/L	1	04/24/2026 9:57	255511
1,2-Dibromoethane	*	0.05		ND	µg/L	1	04/24/2026 9:57	255511
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,1,1-Trichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,1,2,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,1,2-Trichloroethane	NELAP	0.50		ND	µg/L	1	04/24/2026 14:11	255667
1,1-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,1-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,2,3-Trichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,2,3-Trichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,2,4-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,2-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,2-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,3,5-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,3-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,3-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
1,4-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
2,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
2-Butanone	NELAP	5.00		ND	µg/L	1	04/24/2026 14:11	255667
2-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 14:11	255667
2-Hexanone	NELAP	10.0		ND	µg/L	1	04/24/2026 14:11	255667
4-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 14:11	255667
4-Methyl-2-pentanone	NELAP	5.00	B	ND	µg/L	1	04/24/2026 14:11	255667
Acetone	NELAP	5.00		ND	µg/L	1	04/24/2026 14:11	255667
Acrolein	NELAP	5.00		ND	µg/L	1	04/24/2026 14:11	255667
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/24/2026 14:11	255667
Benzene	NELAP	0.50		ND	µg/L	1	04/24/2026 14:11	255667
Bromobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Bromochloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 14:11	255667
Bromodichloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 14:11	255667
Bromoform	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Bromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Carbon disulfide	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Carbon tetrachloride	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Chlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Chloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Chloroform	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Chloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
cis-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
cis-1,3-Dichloropropene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Dibromochloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Dibromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Dichlorodifluoromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667
Ethylbenzene	NELAP	1.00		ND	µg/L	1	04/24/2026 14:11	255667
Hexachlorobutadiene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:11	255667

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-010 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Methylene chloride	NELAP	2.00	B	**ND**	µg/L	1	04/24/2026 14:11	255667
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 14:11	255667
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Styrene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 14:11	255667
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/24/2026 14:11	255667
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Toluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/24/2026 14:11	255667
Surr: 1,2-Dichloroethane-d4	*	80-120		**111.0**	%REC	1	04/24/2026 14:11	255667
Surr: 4-Bromofluorobenzene	*	80-120		**95.4**	%REC	1	04/24/2026 14:11	255667
Surr: Dibromofluoromethane	*	80-120		**101.1**	%REC	1	04/24/2026 14:11	255667
Surr: Toluene-d8	*	80-120		**89.6**	%REC	1	04/24/2026 14:11	255667

Contamination present in the MBLK for multiple analytes. Sample results below the reporting limit are reportable per the TNI Standard.

Allowable Marginal Exceedance of Toluene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-011 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	04/22/2026 11:07	R383246
Depth to water	*	-5.00		**7.28**	ft	1	04/22/2026 11:07	R383246
Depth to water from measuring point	*	0		**9.98**	ft	1	04/22/2026 11:07	R383246
Elevation of groundwater surface	*	0		**529.52**	ft	1	04/22/2026 11:07	R383246
Measuring Point Elevation	*	0		**539.50**	ft	1	04/22/2026 11:07	R383246
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.9**	°F	1	04/22/2026 11:07	R383246
SW-846 9040B								
pH, Field	*	1.00		**6.97**		1	04/22/2026 11:07	R383246
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**650**	µmhos/cm @25C	1	04/22/2026 11:07	R383246
EPA 1664B								
Hexane Extractable Material	NELAP	5		**< 5**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**1.20**	mg/L	1	04/23/2026 15:41	R382764
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**1.21**	mg/L	1	04/23/2026 15:38	R382764
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**0.302**	mg/L	1	04/23/2026 17:55	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**0.494**	mg/L	1	04/23/2026 19:15	R382815
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**450**	mg/L	1	04/24/2026 14:34	R383030
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 16:59	255472
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:40	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 18:04	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**26.7**	mg/L	10	04/26/2026 11:44	R382935
Sulfate	NELAP	10.0		**ND**	mg/L	10	04/26/2026 11:44	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 11:32	R382935
Chloride	NELAP	5.00		**26.7**	mg/L	10	04/26/2026 11:32	R382935
Sulfate	NELAP	10.0		**ND**	mg/L	10	04/26/2026 11:32	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	1.0		**3.9**	mg/L	1	04/22/2026 22:24	R382728
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/27/2026 14:13	R382981
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**168**	µg/L	1	04/24/2026 21:01	255439
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/24/2026 21:01	255439
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/24/2026 21:01	255439

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-011 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Magnesium	NELAP	0.050		**27.7**	mg/L	1	04/24/2026 21:01	255439
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/24/2026 21:01	255439
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**< 25.0**	µg/L	1	04/27/2026 20:05	255445
Barium	NELAP	2.5		**158**	µg/L	1	04/27/2026 20:05	255445
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/27/2026 20:05	255445
Boron	NELAP	20.0		**163**	µg/L	1	04/27/2026 20:05	255445
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/27/2026 20:05	255445
Calcium	NELAP	0.100		**67.5**	mg/L	1	04/27/2026 20:05	255445
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:05	255445
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:05	255445
Copper	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:05	255445
Iron	NELAP	40.0		**4030**	µg/L	1	04/27/2026 20:05	255445
Magnesium	NELAP	0.050		**28.8**	mg/L	1	05/01/2026 11:01	255445
Manganese	NELAP	7.0		**93.3**	µg/L	1	04/27/2026 20:05	255445
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:05	255445
Potassium	NELAP	0.100		**1.84**	mg/L	1	04/27/2026 20:05	255445
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	04/27/2026 20:05	255445
Silver	NELAP	7.0		**< 7.0**	µg/L	1	04/27/2026 20:05	255445
Sodium	NELAP	0.050	B	**56.1**	mg/L	1	04/27/2026 20:05	255445
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	04/27/2026 20:05	255445
Zinc	NELAP	10.0	B	**< 10.0**	µg/L	1	04/27/2026 20:05	255445
Contamination present in the MBLK for Zn. Sample results below the reporting limit are reportable per the TNI Standard.								
Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**80.9**	µg/L	5	05/15/2026 11:00	255439
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 21:31	255439
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 14:29	255445
Arsenic	NELAP	1.0		**76.3**	µg/L	5	05/05/2026 14:29	255445
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/08/2026 21:57	255445
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/05/2026 14:29	255445
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 17:08	255444
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 17:06	255444
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 20:24	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:23	255656
Alachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:23	255656
Aldrin	NELAP	0.04		**ND**	µg/L	1	04/28/2026 13:23	255656
Dieldrin	NELAP	0.04		**ND**	µg/L	1	04/28/2026 13:23	255656
Endrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:23	255656
gamma-BHC	NELAP	0.04		**ND**	µg/L	1	04/28/2026 13:23	255656
Heptachlor	NELAP	0.04		**ND**	µg/L	1	04/28/2026 13:23	255656

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-011 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
Heptachlor epoxide	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:23	255656
Methoxychlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:23	255656
Toxaphene	NELAP	1.02		**ND**	µg/L	1	04/28/2026 13:23	255656
Chlordane	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:23	255656
Surr: Decachlorobiphenyl	*	19.9-155		**83.1**	%REC	1	04/28/2026 13:23	255656
Surr: Tetrachloro-m-xylene	*	36.1-128		**60.6**	%REC	1	04/28/2026 13:23	255656
Elevated reporting limits due to limited sample.								
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/28/2026 15:25	255656
Surr: Decachlorobiphenyl	*	5-174		**80.1**	%REC	1	04/28/2026 15:25	255656
Surr: Tetrachloro-meta-xylene	*	22.2-139		**76.8**	%REC	1	04/28/2026 15:25	255656
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.19		**ND**	µg/L	1	04/28/2026 6:28	255496
2,4-D	NELAP	0.28		**ND**	µg/L	1	04/28/2026 6:28	255496
Dalapon	NELAP	1.23		**ND**	µg/L	1	04/28/2026 6:28	255496
Dinoseb	NELAP	0.19		**ND**	µg/L	1	04/28/2026 6:28	255496
Pentachlorophenol	NELAP	0.09		**ND**	µg/L	1	04/28/2026 6:28	255496
Picloram	NELAP	0.47		**ND**	µg/L	1	04/28/2026 6:28	255496
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**85.9**	%REC	1	04/28/2026 6:28	255496
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/27/2026 22:38	255504
Atrazine	*	0.08		**ND**	µg/L	1	04/27/2026 22:38	255504
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/27/2026 22:38	255504
Carbofuran	*	0.60		**ND**	µg/L	1	04/27/2026 22:38	255504
Simazine	*	0.55		**ND**	µg/L	1	04/27/2026 22:38	255504
Surr: 2-Fluorobiphenyl	*	39.3-126		**65.2**	%REC	1	04/27/2026 22:38	255504
Surr: 2-Fluorophenol	*	1-135		**47.1**	%REC	1	04/27/2026 22:38	255504
Surr: Nitrobenzene-d5	*	45-133		**68.7**	%REC	1	04/27/2026 22:38	255504
Surr: Phenol-d5	*	1-73.7		**31.8**	%REC	1	04/27/2026 22:38	255504
Surr: p-Terphenyl-d14	*	46.2-128		**77.6**	%REC	1	04/27/2026 22:38	255504
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/29/2026 14:45	255726
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/29/2026 14:45	255726
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/29/2026 14:45	255726
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:45	255726
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:45	255726
Di-n-butyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:45	255726
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:45	255726
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/29/2026 14:45	255726
Parathion	NELAP	5.0		**ND**	µg/L	1	04/29/2026 14:45	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**51.9**	%REC	1	04/29/2026 14:45	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**41.4**	%REC	1	04/29/2026 14:45	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**33.8**	%REC	1	04/29/2026 14:45	255726
Surr: Nitrobenzene-d5	*	23.6-113		**37.0**	%REC	1	04/29/2026 14:45	255726
Surr: Phenol-d5	*	15.9-72.2		**27.3**	%REC	1	04/29/2026 14:45	255726
Surr: p-Terphenyl-d14	*	17.9-114		**41.6**	%REC	1	04/29/2026 14:45	255726

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-011 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		ND	µg/L	1	04/24/2026 10:08	255511
1,2-Dibromoethane	*	0.05		ND	µg/L	1	04/24/2026 10:08	255511
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,1,1-Trichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,1,2,2-Tetrachloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,1,2-Trichloroethane	NELAP	0.50		ND	µg/L	1	04/24/2026 14:37	255667
1,1-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,1-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,2,3-Trichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,2,3-Trichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,2,4-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,2-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,2-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,3,5-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,3-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,3-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
1,4-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
2,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
2-Butanone	NELAP	5.00		ND	µg/L	1	04/24/2026 14:37	255667
2-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 14:37	255667
2-Hexanone	NELAP	10.0		ND	µg/L	1	04/24/2026 14:37	255667
4-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/24/2026 14:37	255667
4-Methyl-2-pentanone	NELAP	5.00	B	ND	µg/L	1	04/24/2026 14:37	255667
Acetone	NELAP	5.00		ND	µg/L	1	04/24/2026 14:37	255667
Acrolein	NELAP	5.00		ND	µg/L	1	04/24/2026 14:37	255667
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/24/2026 14:37	255667
Benzene	NELAP	0.50		ND	µg/L	1	04/24/2026 14:37	255667
Bromobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Bromochloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 14:37	255667
Bromodichloromethane	NELAP	1.00		ND	µg/L	1	04/24/2026 14:37	255667
Bromoform	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Bromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Carbon disulfide	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Carbon tetrachloride	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Chlorobenzene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Chloroethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Chloroform	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Chloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
cis-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
cis-1,3-Dichloropropene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Dibromochloromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Dibromomethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Dichlorodifluoromethane	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667
Ethylbenzene	NELAP	1.00		ND	µg/L	1	04/24/2026 14:37	255667
Hexachlorobutadiene	NELAP	2.00		ND	µg/L	1	04/24/2026 14:37	255667

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-011 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Iodomethane	NELAP	3.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Isopropylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Methylene chloride	NELAP	2.00	B	**ND**	µg/L	1	04/24/2026 14:37	255667
Naphthalene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
n-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
n-Propylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
o-Xylene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 14:37	255667
p-Isopropyltoluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
sec-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Styrene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 14:37	255667
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/24/2026 14:37	255667
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Toluene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/24/2026 14:37	255667
Surr: 1,2-Dichloroethane-d4	*	80-120		**110.2**	%REC	1	04/24/2026 14:37	255667
Surr: 4-Bromofluorobenzene	*	80-120		**92.0**	%REC	1	04/24/2026 14:37	255667
Surr: Dibromofluoromethane	*	80-120		**97.7**	%REC	1	04/24/2026 14:37	255667
Surr: Toluene-d8	*	80-120		**86.9**	%REC	1	04/24/2026 14:37	255667

Contamination present in the MBLK for multiple analytes. Sample results below the reporting limit are reportable per the TNI Standard.

Allowable Marginal Exceedance of Toluene in the laboratory control sample is verified per the TNI Standard.

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-012 **Client Sample ID:** DUPLICATE

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664B								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	04/28/2026 16:34	R383034
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**3.30**	mg/L	1	04/23/2026 15:48	R382764
EPA 600 350.1 R2.0 (1993) (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**3.29**	mg/L	1	04/23/2026 15:46	R382764
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 17:59	R382815
EPA 600 353.2 R2.0 (1993) (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	04/23/2026 19:27	R382815
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**848**	mg/L	1	04/24/2026 14:34	R383030
Stable weight could not be achieved after multiple cycles of drying, cooling, and weighing. Final weight is reported.								
STANDARD METHODS 5210 B 2016								
Biochemical Oxygen Demand	NELAP	10		**< 10**	mg/L	1	04/23/2026 17:03	255472
STANDARD METHODS 5220 D (TOTAL) 2011								
Chemical Oxygen Demand	NELAP	50		**< 50**	mg/L	1	04/29/2026 22:40	R383133
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	04/24/2026 18:09	255527
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**198**	mg/L	10	04/26/2026 12:10	R382935
Sulfate	NELAP	10.0		**31.4**	mg/L	10	04/26/2026 12:10	R382935
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/26/2026 11:57	R382935
Chloride	NELAP	5.00		**194**	mg/L	10	04/26/2026 11:57	R382935
Sulfate	NELAP	10.0		**29.4**	mg/L	10	04/26/2026 11:57	R382935
SW-846 9060A								
Total Organic Carbon (TOC)	NELAP	2.0		**3.0**	mg/L	2	04/22/2026 23:24	R382728
SW-846 9066 (TOTAL)								
Phenols	NELAP	5		**< 5**	µg/L	1	04/27/2026 14:24	R382981
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**3980**	µg/L	1	04/24/2026 21:03	255439
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/24/2026 21:03	255439
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	04/24/2026 21:03	255439
Magnesium	NELAP	0.050		**70.6**	mg/L	1	04/24/2026 21:03	255439
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	04/24/2026 21:03	255439
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Aluminum	NELAP	25.0		**63.3**	µg/L	1	04/27/2026 20:07	255445
Barium	NELAP	2.5		**683**	µg/L	1	04/27/2026 20:07	255445
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	04/27/2026 20:07	255445
Boron	NELAP	20.0		**3880**	µg/L	1	04/27/2026 20:07	255445
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	04/27/2026 20:07	255445
Calcium	NELAP	0.100	S	**163**	mg/L	1	04/27/2026 20:07	255445
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:07	255445
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:07	255445
Copper	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:07	255445

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-012 **Client Sample ID:** DUPLICATE

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Iron	NELAP	40.0		**11400**	µg/L	1	04/27/2026 20:07	255445
Magnesium	NELAP	0.050		**71.7**	mg/L	1	05/01/2026 11:14	255445
Manganese	NELAP	7.0		**119**	µg/L	1	04/27/2026 20:07	255445
Nickel	NELAP	5.0		**< 5.0**	µg/L	1	04/27/2026 20:07	255445
Potassium	NELAP	0.100		**2.04**	mg/L	1	04/27/2026 20:07	255445
Selenium	NELAP	40.0		**< 40.0**	µg/L	1	04/27/2026 20:07	255445
Silver	NELAP	7.0		**< 7.0**	µg/L	1	04/27/2026 20:07	255445
Sodium	NELAP	0.050	B	**36.2**	mg/L	1	04/27/2026 20:07	255445
Vanadium	NELAP	10.0		**< 10.0**	µg/L	1	04/27/2026 20:07	255445
Zinc	NELAP	10.0	B	**< 10.0**	µg/L	1	04/27/2026 20:07	255445
Contamination present in the MBLK for Zn. Sample results below the reporting limit are reportable per the TNI Standard.								
Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**16.9**	µg/L	5	05/15/2026 11:28	255439
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 21:35	255439
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	05/05/2026 14:32	255445
Arsenic	NELAP	1.0		**14.6**	µg/L	5	05/05/2026 14:32	255445
Lead	NELAP	1.0		**< 1.0**	µg/L	5	05/08/2026 22:01	255445
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	05/08/2026 22:01	255445
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 17:13	255444
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	04/23/2026 17:10	255444
EPA 600 548.1, ENDOTHALL BY GC/MS								
Endothall	*	10		**ND**	µg/L	1	04/26/2026 20:38	255565
SW-846 3510C, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4´-DDT	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:37	255656
Alachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:37	255656
Aldrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:37	255656
Dieldrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:37	255656
Endrin	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:37	255656
gamma-BHC	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:37	255656
Heptachlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:37	255656
Heptachlor epoxide	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:37	255656
Methoxychlor	NELAP	0.05		**ND**	µg/L	1	04/28/2026 13:37	255656
Toxaphene	NELAP	1.00		**ND**	µg/L	1	04/28/2026 13:37	255656
Chlordane	NELAP	0.10		**ND**	µg/L	1	04/28/2026 13:37	255656
Surr: Decachlorobiphenyl	*	19.9-155		**57.0**	%REC	1	04/28/2026 13:37	255656
Surr: Tetrachloro-m-xylene	*	36.1-128		**66.0**	%REC	1	04/28/2026 13:37	255656
SW-846 3510C, 8082A, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Polychlorinated Biphenyls (Total)	NELAP	0.500		**ND**	µg/L	1	04/28/2026 15:40	255656
Surr: Decachlorobiphenyl	*	5-174		**52.1**	%REC	1	04/28/2026 15:40	255656
Surr: Tetrachloro-meta-xylene	*	22.2-139		**78.7**	%REC	1	04/28/2026 15:40	255656

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-012 **Client Sample ID:** DUPLICATE

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8151A, CHLORINATED HERBICIDES BY GC/ECD								
2,4,5-TP (Silvex)	NELAP	0.40		**ND**	µg/L	1	04/28/2026 6:53	255496
2,4-D	NELAP	0.60		**ND**	µg/L	1	04/28/2026 6:53	255496
Dalapon	NELAP	2.60		**ND**	µg/L	1	04/28/2026 6:53	255496
Dinoseb	NELAP	0.40		**ND**	µg/L	1	04/28/2026 6:53	255496
Pentachlorophenol	NELAP	0.20		**ND**	µg/L	1	04/28/2026 6:53	255496
Picloram	NELAP	1.00		**ND**	µg/L	1	04/28/2026 6:53	255496
Surr: 2,4-Dichlorophenylacetic acid	*	1-189		**87.7**	%REC	1	04/28/2026 6:53	255496
Elevated reporting limit due to sample composition.								
SW-846 3510C, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Aldicarb	*	1.00		**ND**	µg/L	1	04/28/2026 21:31	255609
Atrazine	*	0.08		**ND**	µg/L	1	04/28/2026 21:31	255609
Benzo(a)pyrene	*	0.20		**ND**	µg/L	1	04/28/2026 21:31	255609
Carbofuran	*	0.60		**ND**	µg/L	1	04/28/2026 21:31	255609
Simazine	*	0.55		**ND**	µg/L	1	04/28/2026 21:31	255609
Surr: 2-Fluorobiphenyl	*	39.3-126		**56.5**	%REC	1	04/28/2026 21:31	255609
Surr: 2-Fluorophenol	*	1-135		**43.7**	%REC	1	04/28/2026 21:31	255609
Surr: Nitrobenzene-d5	*	45-133		**59.9**	%REC	1	04/28/2026 21:31	255609
Surr: Phenol-d5	*	1-73.7		**32.0**	%REC	1	04/28/2026 21:31	255609
Surr: p-Terphenyl-d14	*	46.2-128		**74.4**	%REC	1	04/28/2026 21:31	255609
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS (TOTAL)								
Bis(2-ethylhexyl)phthalate	NELAP	6.0		**ND**	µg/L	1	04/29/2026 15:17	255726
Bis(chloromethyl)ether	*	10.0		**ND**	µg/L	1	04/29/2026 15:17	255726
Butyl benzyl phthalate	NELAP	5.0		**ND**	µg/L	1	04/29/2026 15:17	255726
Diethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 15:17	255726
Dimethyl phthalate	NELAP	10.0		**ND**	µg/L	1	04/29/2026 15:17	255726
Di-n-butyl phthalate	NELAP	10.0		**15.3**	µg/L	1	04/29/2026 15:17	255726
Isophorone	NELAP	10.0		**ND**	µg/L	1	04/29/2026 15:17	255726
m,p-Cresol	NELAP	10.0		**ND**	µg/L	1	04/29/2026 15:17	255726
Parathion	NELAP	5.0		**ND**	µg/L	1	04/29/2026 15:17	255726
Surr: 2,4,6-Tribromophenol	*	29-129		**57.1**	%REC	1	04/29/2026 15:17	255726
Surr: 2-Fluorobiphenyl	*	30.1-112		**47.7**	%REC	1	04/29/2026 15:17	255726
Surr: 2-Fluorophenol	*	18.7-95.3		**39.4**	%REC	1	04/29/2026 15:17	255726
Surr: Nitrobenzene-d5	*	23.6-113		**43.0**	%REC	1	04/29/2026 15:17	255726
Surr: Phenol-d5	*	15.9-72.2		**31.6**	%REC	1	04/29/2026 15:17	255726
Surr: p-Terphenyl-d14	*	17.9-114		**48.4**	%REC	1	04/29/2026 15:17	255726
SW-846 8011, DBCP & EDB BY GC/ECD								
1,2-Dibromo-3-chloropropane	*	0.05		**ND**	µg/L	1	04/24/2026 10:20	255511
1,2-Dibromoethane	*	0.05		**ND**	µg/L	1	04/24/2026 10:20	255511
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
1,1,1-Trichloroethane	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
1,1,2,2-Tetrachloroethane	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
1,1,2-Trichloroethane	NELAP	0.50		**ND**	µg/L	1	04/30/2026 13:30	255891
1,1-Dichloroethane	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
1,1-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
1,2,3-Trichlorobenzene	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
1,2,3-Trichloropropane	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-012 **Client Sample ID:** DUPLICATE

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
1,2-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
1,2-Dichloroethane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
1,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
1,3,5-Trimethylbenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
1,3-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
1,3-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
1,4-Dichlorobenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
2,2-Dichloropropane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
2-Butanone	NELAP	5.00		ND	µg/L	1	04/30/2026 13:30	255891
2-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/30/2026 13:30	255891
2-Hexanone	NELAP	10.0		ND	µg/L	1	04/30/2026 13:30	255891
4-Chlorotoluene	NELAP	1.00		ND	µg/L	1	04/30/2026 13:30	255891
4-Methyl-2-pentanone	NELAP	5.00		ND	µg/L	1	04/30/2026 13:30	255891
Acetone	NELAP	5.00		ND	µg/L	1	04/30/2026 13:30	255891
Acrolein	NELAP	5.00		ND	µg/L	1	04/30/2026 13:30	255891
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/30/2026 13:30	255891
Benzene	NELAP	0.50		ND	µg/L	1	04/30/2026 13:30	255891
Bromobenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Bromochloromethane	NELAP	1.00		ND	µg/L	1	04/30/2026 13:30	255891
Bromodichloromethane	NELAP	1.00		ND	µg/L	1	04/30/2026 13:30	255891
Bromoform	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Bromomethane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Carbon disulfide	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Carbon tetrachloride	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Chlorobenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Chloroethane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Chloroform	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Chloromethane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
cis-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
cis-1,3-Dichloropropene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Dibromochloromethane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Dibromomethane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Dichlorodifluoromethane	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Ethylbenzene	NELAP	1.00		ND	µg/L	1	04/30/2026 13:30	255891
Hexachlorobutadiene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Iodomethane	NELAP	3.00		ND	µg/L	1	04/30/2026 13:30	255891
Isopropylbenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	04/30/2026 13:30	255891
Methylene chloride	NELAP	2.00	B	ND	µg/L	1	04/30/2026 13:30	255891
Naphthalene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
n-Butylbenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
n-Propylbenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
o-Xylene	NELAP	1.00		ND	µg/L	1	04/30/2026 13:30	255891
p-Isopropyltoluene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
sec-Butylbenzene	NELAP	2.00		ND	µg/L	1	04/30/2026 13:30	255891
Styrene	NELAP	1.00		ND	µg/L	1	04/30/2026 13:30	255891

Client: City Water, Light & Power **Work Order:** 26041297

Client Project: Landfill Monitoring Wells G1-G2-G3 **Report Date:** 26-May-26

Lab ID: 26041297-012 **Client Sample ID:** DUPLICATE

Matrix: GROUNDWATER **Collection Date:** 04/22/2026 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030B, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
tert-Butylbenzene	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
Tetrachloroethene	NELAP	0.50		**ND**	µg/L	1	04/30/2026 13:30	255891
Tetrahydrofuran	NELAP	5.00		**ND**	µg/L	1	04/30/2026 13:30	255891
Toluene	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
trans-1,3-Dichloropropene	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
trans-1,4-Dichloro-2-butene	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
Trichloroethene	NELAP	1.00		**ND**	µg/L	1	04/30/2026 13:30	255891
Trichlorofluoromethane	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
Vinyl acetate	NELAP	5.00		**ND**	µg/L	1	04/30/2026 13:30	255891
Vinyl chloride	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
Xylenes, Total	NELAP	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
1,3-Dichloropropene, Total	*	2.00		**ND**	µg/L	1	04/30/2026 13:30	255891
Surr: 1,2-Dichloroethane-d4	*	80-120		**94.2**	%REC	1	04/30/2026 13:30	255891
Surr: 4-Bromofluorobenzene	*	80-120		**100.3**	%REC	1	04/30/2026 13:30	255891
Surr: Dibromofluoromethane	*	80-120		**98.7**	%REC	1	04/30/2026 13:30	255891
Surr: Toluene-d8	*	80-120		**97.6**	%REC	1	04/30/2026 13:30	255891

Contamination present in the MBLK for Methylene chloride. Sample results below the reporting limit are reportable per the TNI Standard.

Allowable Marginal Exceedance of Tetrachloroethene in the laboratory control sample is verified per the TNI Standard.

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 26041297
Client Project: Landfill Monitoring Wells G1-G2-G3
Report Date: 26-May-26

Carrier: Payton Yoch
Received By: LEH

Completed by: Laura E Henson
On: 22-Apr-26

Reviewed by: Allison Simpson
On: 23-Apr-26

Pages to follow: Chain of custody 3 Extra pages included 18

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	15.4
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☑	No ☐	No VOA vials ☐
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☑	NA ☐

Any No responses must be detailed below or on the COC.

Preservation checks for O&G analysis are to be completed by the laboratory technician prior to analysis. - lhenson - 4/22/2026 4:31:53 PM

pH strip #104524/98858. -JD/ lhenson - 4/22/2026 4:31:56 PM

Samples submitted for total cyanide analysis for CWA/NPDES reporting were checked for interferences upon arrival at the laboratory. Lead Acetate strip #109495. -JD/ lhenson - 4/22/2026 4:32:00 PM

Additional sulfuric acid (108020) was needed for DUP upon arrival at the laboratory. - JD/lhenson - 4/22/2026 4:32:02 PM

Additional cooler temperatures: 10.2C, 8.4C, 10.4C, 13.6C. LTG#9. LH 4/22/26

Samples were received on 4/23/26 at 1304 on ice [temp12.6C, 11.2C, 18.4C - LTG#9]. Ph# 104524/98858. No headspace. No Sulfide/No Chlorine(109495) Added sodium hydroxide (109798) to G113. Received Dup 500ml unpreserved collected on 4/23/26 at 1017. Added as sample - 013. AMD - JD/lhenson - 4/23/2026 2:26:40 PM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 26041297

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

12.6, 11.2

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE 18.4 °C 9
Preserved in: ☒ LAB ☐ FIELD
FOR LAB USE ONLY
LAB NOTES: PH 104584 98858 Ø HS
Ø Sul BCL (109495)
Added NaOH (169798) G113 SD 4/23/26

Client Comments: Dup- received 500ml unp. collected 4/23/26 10:17. Added Cd 203 DM 4/23/26
Quarter 2 (even number years) G110 MS/MSD volume for SV; R11 MS/MSD volume for O&G, CN and VOC *elevations, pH, conductivity, temperature
**As B Cd Cr Pb Mg Hg Zn
***Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Hg Ni K Se Ag Na Tl V Zn

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

PROJECT NAME/NUMBER
Landfill Monitoring Wells G1-G2-G3

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl SO4 TDS (D)	Metals (D)**	Cyanide O&G OOH	Nitrate (D)	Ammonia (D)	Metals (T)***	BOD Cl F SO4 (T)	NH3 COD TOC	Nitrate (T)	VOC Pest-PCB	SVOC-PSIMS	Herbicides	Endothall EDB-DBCP
26041297-001	R101		Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
002	G110	4-23 959	Groundwater	17	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
003	R111		Groundwater	9	2	1	7	6					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
004	G112	4-23 1104	Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
005	G113	4-23 1017	Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
006	G120		Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
007	G121		Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
008	G122		Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
009	AW-1	4-23 1002	Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
010	AW-2		Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
011	RW-3		Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	4-23-26 1304		4/23/26 13:04

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 26041297

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

102, 8.4, 10.4, 13.6

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☑ ICE ☐ BLUE ICE ☐ NO ICE 15.4 °C 9
Preserved in: ☒ LAB ☐ FIELD PH 104524 98858 FOR LAB USE ONLY
LAB NOTES: Ø Sul CL present R101 (109495) Ø HS
Added H2SO4 (108620) 1/2 125 Amber Dup

Client Comments: JD 4/22/26
Quarter 2 (even number years) G110 MS/MSD volume for SV; R11 MS/MSD volume for O&G, CN and VOC *elevations, pH, conductivity, temperature
**As B Cd Cr Pb Mg Hg Zn
***Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Hg Ni K Se Ag Na Tl V Zn

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

PROJECT NAME/NUMBER: Landfill Monitoring Wells G1-G2-G3

SAMPLE COLLECTOR'S NAME: Justin Colp

RESULTS REQUESTED
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl SO4 TDS (D)	Metals (D)**	Cyanide O&G OOH	Nitrate (D)	Ammonia (D)	Metals (T)***	BOD Cl F SO4 (T)	NH3 COD TOC	Nitrate (T)	VOC Pest-PCB	SVOC-PSIMS	Herbicides	Endothall EDB-DBCP
26041297-001	R101	4-22 1207	Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
002	G110		Groundwater	17	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
003	R111	4-22 1131	Groundwater	9	2	1	7	6					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
004	G112		Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
005	G113		Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
006	G120	4-22 1023	Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
007	G121	4-22 1125	Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
008	G122	4-22 1221	Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
009	AW-1		Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
010	AW-2	4-22 1019	Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
011	RW-3	4-22 1107	Groundwater	9	2	1	5	3					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
	4/22/26 1457		4/22/26 1457

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 26041297

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
Quarter 2 (even number years)
*elevations, pH, conductivity, temperature
**As B Cd Cr Pb Mg Hg Zn
***Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Hg Ni K Se Ag Na Tl V Zn

PROJECT NAME/NUMBER
Landfill Monitoring Wells G1-G2-G3

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl SO4 TDS (D)	Metals (D)**	Cyanide O&G OOH	Nitrate (D)	Ammonia (D)	Metals (T)***	BOD Cl F SO4 (T)	NH3 COD TOC	Nitrate (T)	VOC Pest-PCB	SVOC-PSIMS	Herbicides	Endothall EDB-DBCP
26041297-012	DUPLICATE	4-22 1131	Groundwater	9	2	1	5	3						✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
			Groundwater																							
			Groundwater																							
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			Groundwater																							

Relinquished By	Date/Time	Received By	Date/Time
	4/22/26 1457		4/22/26 1457

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	R101
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	26041297	**Date (s):**	4/22/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 74 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing	X	
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/22/26 11:43 AM

Static Water Level: 6.83 feet below TOC

Total Depth: 35.27 feet below TOC

Water Column: 28.44 feet

Purging Activities

Purged By: DC Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 28.44 ft. x 0.022 = 0.63 L x 3 Vol. = 1.89 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Slightly cloudy Odor: Slight Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:43	0.0	250	purge start time						
11:55	3.0	↓	7.21	1,085.80	16.97	1.06	-34.00	11.45	
11:58	3.8		7.21	1,086.20	16.94	0.95	-37.00	11.91	
12:01	4.5		7.21	1,085.40	16.67	0.86	-39.80	12.29	
12:04	5.3		7.21	1,084.90	16.56	0.82	-42.00	12.45	
12:07	6.0		7.21	1,085.30	16.23	0.80	-44.20	13.16	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/22/2026 12:07

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 7.21 pH 1,085.30 Spec. Cond. 16.23 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 7.00 feet below TOC Drawdown: 0.17 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/22/2026

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	G110
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	26041297	**Date (s):**	4/23/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 69 °F — Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/23/26 9:31 AM

Static Water Level: 24.71 feet below TOC

Total Depth: 57.15 feet below TOC

Water Column: 32.44 feet

Purging Activities

Purged By: JC — Purge Date: 4/23/2026

Purge Method: Low Flow — Well Diameter: 2"

Purge Volume Calculation (L): 32.44 ft. x 0.022 = 0.71 L x 3 Vol. = 2.13 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:31	0.0	214	purge start time						
9:35	0.9	↓	6.59	571.90	16.87	1.93	-49.00	10.05	
9:38	1.5		6.62	569.10	16.97	1.85	-73.50	8.38	
9:41	2.1		6.63	566.00	16.89	1.63	-83.60	6.70	
9:44	2.8		6.64	561.90	16.76	1.41	-89.30	5.74	
9:47	3.4		6.65	557.50	16.02	1.05	-92.80	7.01	
9:50	4.1		6.67	553.80	15.98	0.91	-96.30	24.88	
9:53	4.7		6.68	552.00	16.10	0.86	-99.20	95.73	
9:56	5.4		6.68	550.50	16.88	0.99	-101.40	49.37	
9:59	6.0		6.68	553.30	16.81	1.03	-102.60	40.08	

Sampling Activities

Sampled By: JC — Sample Date/Time: 4/23/2026 9:59

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.68 pH — 553.30 Spec. Cond. — 16.81 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 24.85 feet below TOC — Drawdown: 0.14 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp — **Date:** 4/22/2026

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	R111
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	26041297	**Date (s):**	4/22/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/22/26 10:57 AM

Static Water Level: 25.22 feet below TOC

Total Depth: 55.75 feet below TOC

Water Column: 30.53 feet

Purging Activities

Purged By: JC Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 30.53 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:58	0.0	182	purge start time						
11:04	1.1	↓	7.09	389.20	16.24	1.79	-111.70	46.92	
11:07	1.6		6.95	355.70	16.34	1.58	-114.00	60.34	
11:10	2.2		6.90	373.40	16.57	1.45	-115.60	52.73	
11:13	2.7		6.85	433.00	16.54	1.35	-117.10	45.39	
11:16	3.3		6.83	482.70	16.66	1.27	-118.70	37.15	
11:19	3.8		6.80	664.60	16.52	1.22	-118.70	33.15	
11:22	4.4		6.80	793.90	16.75	1.19	-120.30	32.24	
11:25	4.9		6.81	862.40	16.59	1.17	-121.40	25.12	
11:28	5.5		6.81	876.40	16.82	1.16	-122.00	16.89	
11:31	6.0		6.81	888.20	17.00	1.16	-122.40	18.00	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/22/2026 11:31

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.81 pH 888.20 Spec. Cond. 17.00 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 25.28 feet below TOC Drawdown: 0.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357
- Duplicate Collected

Form Completed By: Justin Colp **Date:** 4/22/2026

Field Data Sheet

Project Name: Landfill Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 26041297
Monitoring Point: G112
Sample ID: 004
Date (s): 4/23/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 73 °F — Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/23/26 10:53 AM
Static Water Level: 27.87 feet below TOC
Total Depth: 58.81 feet below TOC
Water Column: 30.94 feet

Purging Activities

Purged By: JC — Purge Date: 4/23/2026
Purge Method: Low Flow — Well Diameter: 2"
Purge Volume Calculation (L): 30.94 ft. x 0.022 = 0.68 L x 3 Vol. = 2.04 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 2.50 L
Physical appearance of purge water: Clear — Odor: Moderate — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:53	0.0	227	purge start time						
10:55	0.5	↓	6.95	993.60	18.14	1.82	-96.00	6.93	
10:58	1.1		6.98	979.90	18.35	1.63	-120.60	6.95	
11:01	1.8		7.00	974.00	18.17	1.50	-131.10	7.90	
11:04	2.5		7.02	965.30	17.82	1.40	-136.30	7.80	

Sampling Activities

Sampled By: JC — Sample Date/Time: 4/23/2026 11:04
Sample Method: Low Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 7.02 pH — 965.30 Spec. Cond. — 17.82 Temp
Field Filtered: Yes — Filter Type: Inline Disposable
Water Level: 28.56 feet below TOC — Drawdown: 0.69 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357

Form Completed By: Justin Colp — **Date:** 4/23/2026

Field Data Sheet

Project Name: Landfill Monitoring Wells
Monitoring Point: G113
Project Location: Springfield, IL
Sample ID: 005
W.O. Number (s): 26041297
Date (s): 4/23/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 72 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/23/26 9:43 AM
Static Water Level: 4.55 feet below TOC
Total Depth: 12.60 feet below TOC
Water Column: 8.05 feet

Purging Activities

Purged By: AL Purge Date: 4/23/2026
Purge Method: Low Flow Well Diameter: 2"
Purge Volume Calculation (L): 8.05 ft. x 0.022 = 0.18 L x 3 Vol. = 0.54 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: Moderate Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:43	0.0	118	purge start time						
9:59	1.9	↓	6.18	1,363.90	14.52	5.22	-58.00	8.76	
10:02	2.2		6.23	1,381.80	14.47	5.88	-61.40	9.15	
10:05	2.6		6.20	1,491.00	14.30	5.78	-62.30	10.71	
10:08	2.9		6.11	1,607.70	14.17	5.64	-57.20	13.09	
10:11	3.3		6.07	1,651.30	14.09	5.38	-53.70	15.13	
10:14	3.6		6.05	1,666.40	13.93	5.18	-52.40	11.79	
10:17	4.0		6.08	1,668.20	13.87	5.32	-53.10	6.69	

Sampling Activities

Sampled By: DN Sample Date/Time: 4/23/2025 10:17
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.08 pH 1,668.20 Spec. Cond. 13.87 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 7.01 feet below TOC Drawdown: 2.46 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: Allison Lampe Date: 4/23/2025

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	G120
Project Location:	Springfield, IL	**Sample ID:**	006
W.O. Number (s):	26041297	**Date (s):**	4/22/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/22/26 9:55 AM

Static Water Level: 16.43 feet below TOC

Total Depth: 50.37 feet below TOC

Water Column: 33.94 feet

Purging Activities

Purged By: AL Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 33.94 ft. x 0.022 = 0.75 L x 3 Vol. = 2.25 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:55	0.0	179	purge start time						
10:14	3.4	↓	6.68	1,795.20	18.23	1.96	-41.50	71.51	
10:17	3.9		6.69	1,791.50	18.30	1.80	-67.50	72.97	
10:20	4.5		6.69	1,788.00	18.21	1.69	-82.70	83.16	
10:23	5.0		6.69	1,778.00	18.23	1.59	-92.70	83.39	

Sampling Activities

Sampled By: DN Sample Date/Time: 4/22/2026 10:23

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.69 pH 1,778.00 Spec. Cond. 18.23 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 16.55 feet below TOC Drawdown: 0.12 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: A Nieters **Date:** 4/22/2026

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	G121
Project Location:	Springfield, IL	**Sample ID:**	007
W.O. Number (s):	26041297	**Date (s):**	4/22/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Locks	Yes	No
Well Pad	Good		Protective Casing	X	
Casing	Good		Well		X
Protective Casing	Good				
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 4/22/26 10:53 AM

Static Water Level: 28.33 feet below TOC

Total Depth: 58.56 feet below TOC

Water Column: 30.23 feet

Purging Activities

Purged By: DN Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 30.23 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:55	0.0	167	purge start time						
11:13	3.0	↓	6.87	1,396.60	16.47	1.94	-95.30	31.00	
11:16	3.5		6.86	1,395.00	16.51	1.80	-100.70	37.45	
11:19	4.0		6.84	1,395.90	16.48	1.70	-104.40	47.01	
11:22	4.5		6.82	1,395.20	16.62	1.61	-108.10	53.26	
11:25	5.0		6.82	1,396.00	16.45	1.54	-111.90	57.03	

Sampling Activities

Sampled By: DN Sample Date/Time: 4/22/2026 11:25

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.82 pH 1,396.00 Spec. Cond. 16.45 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 28.61 feet below TOC Drawdown: 0.28 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: Allison Lampe **Date:** 4/22/2026

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	G122
Project Location:	Springfield, IL	**Sample ID:**	008
W.O. Number (s):	26041297	**Date (s):**	4/22/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/22/26 12:07 PM

Static Water Level: 29.95 feet below TOC

Total Depth: 49.29 feet below TOC

Water Column: 19.34 feet

Purging Activities

Purged By: AL Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 19.34 ft. x 0.022 = 0.43 L x 3 Vol. = 1.29 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 2.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:07	0.0	143	purge start time						
12:15	1.1	↓	6.86	1,556.80	19.04	3.29	-63.50	3.61	
12:18	1.6		6.85	1,571.70	19.21	2.85	-68.90	2.77	
12:21	2.0		6.85	1,577.40	19.39	2.58	-75.10	2.26	

Sampling Activities

Sampled By: DN Sample Date/Time: 4/22/2026 12:21

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.85 pH 1,577.40 Spec. Cond. 19.39 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 29.95 feet below TOC Drawdown: 0.00 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223337

Form Completed By: Allison Lampe Date: 4/22/2026

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	AW-1
Project Location:	Springfield, IL	**Sample ID:**	009
W.O. Number (s):	26041297	**Date (s):**	4/23/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/23/26 9:35 AM

Static Water Level: 14.96 feet below TOC

Total Depth: 54.81 feet below TOC

Water Column: 39.85 feet

Purging Activities

Purged By: DC Purge Date: 4/23/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 39.85 ft. x 0.022 = 0.88 L x 3 Vol. = 2.64 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Rust

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:35	0.0	222	purge start time						
9:50	3.3	↓	6.73	1,286.30	17.53	2.28	67.80	91.07	
9:53	4.0		6.73	1,284.30	17.48	2.25	69.40	103.83	
9:56	4.7		6.72	1,283.60	17.50	2.17	70.60	86.58	
9:59	5.3		6.72	1,284.50	17.64	2.04	71.40	63.80	
10:02	6.0		6.72	1,285.20	17.54	2.05	72.00	62.71	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/23/2026 10:02

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.72 pH 1,285.20 Spec. Cond. 17.54 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 15.52 feet below TOC Drawdown: 0.56 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/23/2026

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	AW-2
Project Location:	Springfield, IL	**Sample ID:**	010
W.O. Number (s):	26041297	**Date (s):**	4/22/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 69 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing	X	
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/22/26 9:56 AM

Static Water Level: 4.44 feet below TOC

Total Depth: 32.64 feet below TOC

Water Column: 28.20 feet

Purging Activities

Purged By: DC Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 28.2 ft. x 0.022 = 0.62 L x 3 Vol. = 1.86 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:56	0.0	217	purge start time						
10:07	2.4	↓	6.61	821.20	14.67	1.22	-52.20	19.30	
10:10	3.0		6.60	820.90	14.67	1.08	-57.30	20.46	
10:13	3.7		6.60	820.90	14.53	0.96	-61.30	22.25	
10:16	4.3		6.60	820.40	14.56	0.89	-64.40	20.26	
10:19	5.0		6.61	820.80	14.59	0.84	-66.10	19.69	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/22/2026 10:19

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.61 pH 820.80 Spec. Cond. 14.59 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 6.34 feet below TOC Drawdown: 1.90 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/22/2026

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	RW-3
Project Location:	Springfield, IL	**Sample ID:**	011
W.O. Number (s):	26041297	**Date (s):**	4/22/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/22/26 10:47 AM

Static Water Level: 9.98 feet below TOC

Total Depth: 44.01 feet below TOC

Water Column: 34.03 feet

Purging Activities

Purged By: DC Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 34.03 ft. x 0.022 = 0.75 L x 3 Vol. = 2.25 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:47	0.0	250	purge start time						
10:55	2.0	↓	7.04	646.80	14.24	1.23	-54.00	5.91	
10:58	2.8		7.02	645.20	14.21	1.12	-59.10	7.09	
11:01	3.5		7.00	646.20	14.37	1.06	-63.70	9.19	
11:04	4.3		6.98	647.90	14.30	1.01	-69.40	9.09	
11:07	5.0		6.97	649.70	14.37	0.97	-75.60	13.19	

Sampling Activities

Sampled By: BG Sample Date/Time: 4/22/2026 11:07

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.97 pH 649.70 Spec. Cond. 14.37 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 10.56 feet below TOC Drawdown: 0.58 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51215

Form Completed By: Brett Gillihan **Date:** 4/22/2026

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	Duplicate
Project Location:	Springfield, IL	**Sample ID:**	012
W.O. Number (s):	26041297	**Date (s):**	4/22/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/22/26 10:57 AM

Static Water Level: 25.22 feet below TOC

Total Depth: 55.75 feet below TOC

Water Column: 30.53 feet

Purging Activities

Purged By: JC Purge Date: 4/22/2026

Purge Method: Low Flow Well Diameter: 2"

Purge Volume Calculation (L): 30.53 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:58	0.0	182	purge start time						
11:04	1.1	↓	7.09	389.20	16.24	1.79	-111.70	46.92	
11:07	1.6		6.95	355.70	16.34	1.58	-114.00	60.34	
11:10	2.2		6.90	373.40	16.57	1.45	-115.60	52.73	
11:13	2.7		6.85	433.00	16.54	1.35	-117.10	45.39	
11:16	3.3		6.83	482.70	16.66	1.27	-118.70	37.15	
11:19	3.8		6.80	664.60	16.52	1.22	-118.70	33.15	
11:22	4.4		6.80	793.90	16.75	1.19	-120.30	32.24	
11:25	4.9		6.81	862.40	16.59	1.17	-121.40	25.12	
11:28	5.5		6.81	876.40	16.82	1.16	-122.00	16.89	
11:31	6.0		6.81	888.20	17.00	1.16	-122.40	18.00	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/22/2026 11:31

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.81 pH 888.20 Spec. Cond. 17.00 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 25.28 feet below TOC Drawdown: 0.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223357
- QA/QC Sample. Collected at R111

Form Completed By: Justin Colp **Date:** 4/22/2026

Site Samping Event: LF Mon. Wells
LIMS Workorder: 26041297
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223357 Technician(s): justin colp Date: 4/21/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260306A	4.00	122.30	4/21/26 8:59
7.0 Buffer	WC251017B	7.00	-45.80	4/21/26 8:55
10.0 Buffer	WC251017C	10.00	-213.30	4/21/26 9:02
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/21/26 9:08

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.96	4/21/26 9:09
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	4/21/26 9:14	18.2	7.03	1,401	0.88		
CCV-1-JC	CCV	4/21/26 13:03	20.5	7.05	1,424	0.89		

Comments:

Field Meter ID: Pine 223357 Technician(s): justin colp Date: 4/22/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	121.80	4/22/26 9:17
7.0 Buffer	WC251017B	7.00	-46.80	4/22/26 9:15
10.0 Buffer	WC251017C	10.00	-213.10	4/22/26 9:21
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/22/26 9:24

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.93	4/22/26 9:26
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	4/22/26 9:28	20.8	7.01	1,414	0.95		
CCV-2-JC	CCV	4/22/26 12:57	23.4	7.04	1,393	0.93		

Comments:

Site Samping Event: LF Mon. Wells
LIMS Workorder: 26041297
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223357 Technician(s): justin colp Date: 4/23/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	118.80	4/23/26 9:08
7.0 Buffer	WC251017B	7.00	-49.00	4/23/26 9:05
10.0 Buffer	WC251017C	10.00	-213.60	4/23/26 9:12
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/23/26 9:17

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.94	4/23/26 9:18
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-JC	LCS	4/23/26 9:19	20.3	7.03	1,407	0.87		
CCV-3-JC	CCV	4/23/26 11:07	21.1	7.01	1,371	0.95		

Comments:

Site Samping Event: LF Mon. Wells
LIMS Workorder: 26041297
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 51295 Technician(s): Brett Gillihan Date: 4/21/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260306A	4.00	129.40	4/21/26 8:55
7.0 Buffer	WC251017B	7.00	-41.00	4/21/26 8:52
10.0 Buffer	WC251017C	10.00	-200.30	4/21/26 9:01
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1411	4/21/26 9:07

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.32	4/21/26 9:10
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	4/21/26 9:13	14.9	6.98	1,415	0.37		
CCV-1-BG	CCV	4/21/26 13:05	17.4	6.99	1,419	0.41		

Comments:

Field Meter ID: Pine 51215 Technician(s): Brett Gillihan Date: 4/22/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	123.90	4/22/26 9:34
7.0 Buffer	WC251017B	7.00	-39.70	4/22/26 9:31
10.0 Buffer	WC251017C	10.00	139.20	1/0/00 0:00
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1416	4/22/26 9:39

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.41	4/22/26 9:42
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	4/22/26 9:44	19.1	6.99	1,416	0.42		
CCV-2-BG	CCV	4/22/26 13:11	19.7	7.00	1,415	0.44		

Comments:

Site Samping Event: LF Mon. Wells
LIMS Workorder: 26041297
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 51215 Technician(s): Brett Gillihan Date: 4/23/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	125.40	4/23/26 9:08
7.0 Buffer	WC251017B	7.00	-37.20	4/23/26 9:01
10.0 Buffer	WC251017C	10.00	-193.40	4/23/26 9:10
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/23/26 9:17

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.36	4/23/26 9:21
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-BG	LCS	4/23/26 9:22	19.5	6.99	1,415	0.38		
CCV-3-BG	CCV	4/23/26 12:48	19.8	7.01	1,420	0.42		

Comments:

Site Samping Event: LF Mon. Wells
LIMS Workorder: 26041297
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223337 Technician(s): A.Lampe Date: 4/21/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260306A	4.00	148.70	4/21/26 9:09
7.0 Buffer	WC251017B	7.00	-26.00	4/21/26 9:12
10.0 Buffer	WC251017C	10.00	-196.20	4/21/26 9:17
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/21/26 9:18

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.67	4/21/26 9:22
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-AL	LCS	4/21/26 9:23	18.8	7.07	1,414	0.67		
CCV-1-AL	CCV	4/21/26 13:10	19	7.08	1,374	0.78		

Comments:

Field Meter ID: Pine 23337 Technician(s): A.Lampe Date: 4/22/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	148.80	4/22/26 9:27
7.0 Buffer	WC251017B	7.00	-27.60	4/22/26 9:29
10.0 Buffer	WC251017C	10.00	-196.90	4/22/26 9:31
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/22/26 9:34

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.78	4/22/26 9:36
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-AL	LCS	4/22/26 9:40	19.07	7.05	1,407	0.78		
CCV-2-AL	CCV	4/22/26 12:42	19.8	7.01	1,367	0.96		

Comments:

Site Samping Event: LF Mon. Wells
LIMS Workorder: 26041297
Technician(s): DC, JC, BG, AL, DN, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 23337 Technician(s): A.Lampe Date: 4/23/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC251017A	4.00	149.60	4/23/26 9:25
7.0 Buffer	WC251017B	7.00	-27.60	4/23/26 9:27
10.0 Buffer	WC251017C	10.00	-197.50	4/23/26 9:29
LCS/CCV (7.0 Buffer)	WC251017D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	4/23/26 9:31

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.45	4/23/26 9:32
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-AL	LCS	4/23/26 9:34	19.1	7.08	1,406	0.45		
CCV-3-AL	CCV	4/23/26 11:13	20.8	7.07	1,384	0.87		

Comments:

July 09, 2026

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100467
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 26060603

Dear Eric Staley:

TEKLAB, INC received 10 samples on 6/18/2026 1:42:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Paul Schultz
Project Manager

Pschultz@teklabinc.com

Report Contents

Client: City Water, Light & Power
Work Order: 26060603
Client Project: FGDS Landfill
Report Date: 09-Jul-26

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	18
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
A	Total Coliform and/or E. Coli (Result) is absent
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
P	Total Coliform and/or E. Coli (Result) is present
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
S	Opinion for Colisure analysis is Satisfactory
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
T.O.P.	Top of Pump
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)
U	Opinion for Colisure analysis is Unsatisfactory

Definitions

Client: City Water, Light & Power
Work Order: 26060603
Client Project: FGDS Landfill
Report Date: 09-Jul-26

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 26060603
Report Date: 09-Jul-26

Cooler Receipt Temp: 15.3 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Alliance Technical Group. See attached report for results.

Locations

Collinsville
Address 5445 Horseshoe Lake Road, Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville
Address 120 United Drive, Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield
Address 3920 Pintail Dr, Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City
Address 8421 Nieman Road, Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air
Address 120 United Drive, Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago
Address 1319 Butterfield Rd., Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Client Project: FGDS Landfill

Work Order: 26060603

Report Date: 09-Jul-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100467	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2027	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2027	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2027	Collinsville
Illinois	IDPH	17584		5/31/2027	Collinsville
Iowa	IDNR	430		6/1/2028	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Louisiana	LDEQ	05003		6/30/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Lab ID: 26060603-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 06/18/2026 11:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	06/18/2026 11:58	R386234
Depth to water	*	-5.00		**4.79**	ft	1	06/18/2026 11:58	R386234
Depth to water from measuring point	*	0		**7.59**	ft	1	06/18/2026 11:58	R386234
Elevation of groundwater surface	*	0		**539.21**	ft	1	06/18/2026 11:58	R386234
Measuring Point Elevation	*	0		**546.80**	ft	1	06/18/2026 11:58	R386234
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	06/18/2026 11:58	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.5**	NTU	1	06/18/2026 11:58	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.6**	°F	1	06/18/2026 11:58	R386234
SW-846 9040B								
pH, Field	*	1.00		**7.12**		1	06/18/2026 11:58	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1110**	µS/cm	1	06/18/2026 11:58	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**974**	mg/L	1	06/22/2026 9:32	R386246
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/20/2026 2:31	R386144
Chloride	NELAP	5.00		**114**	mg/L	10	06/20/2026 2:31	R386144
Sulfate	NELAP	10.0		**259**	mg/L	10	06/20/2026 2:31	R386144
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.283**	mg/L	1	06/19/2026 17:00	258454
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 17:00	258454
Boron	NELAP	0.0200		**0.129**	mg/L	1	06/19/2026 17:00	258454
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 17:00	258454
Calcium	NELAP	0.100		**136**	mg/L	1	06/19/2026 17:00	258454
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:00	258454
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:00	258454
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 17:00	258454
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 17:00	258454
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:04	258454
Arsenic	NELAP	0.0010		**0.0014**	mg/L	5	06/24/2026 13:04	258454
Lithium	*	0.0030		**0.0176**	mg/L	5	06/27/2026 16:37	258454
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:04	258454
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/24/2026 13:04	258454
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/24/2026 11:38	258478
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.400**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.100**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.300**	+/-	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Lab ID: 26060603-002 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 06/18/2026 9:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	06/18/2026 9:29	R386234
Depth to water	*	-5.00		**25.91**	ft	1	06/18/2026 9:29	R386234
Depth to water from measuring point	*	0		**27.78**	ft	1	06/18/2026 9:29	R386234
Elevation of groundwater surface	*	0		**527.82**	ft	1	06/18/2026 9:29	R386234
Measuring Point Elevation	*	0		**555.60**	ft	1	06/18/2026 9:29	R386234
Measuring Point Height Above Land Surface	*	0		**1.87**	ft	1	06/18/2026 9:29	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.2**	NTU	1	06/18/2026 9:29	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.2**	°F	1	06/18/2026 9:29	R386234
SW-846 9040B								
pH, Field	*	1.00		**6.66**		1	06/18/2026 9:29	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1590**	µS/cm	1	06/18/2026 9:29	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1040**	mg/L	1	06/22/2026 9:32	R386246
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/20/2026 3:47	R386144
Chloride	NELAP	5.00		**30.4**	mg/L	10	06/20/2026 3:47	R386144
Sulfate	NELAP	10.0		**335**	mg/L	10	06/20/2026 3:47	R386144
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.500**	mg/L	1	06/19/2026 17:01	258454
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 17:01	258454
Boron	NELAP	0.0200		**4.03**	mg/L	1	06/19/2026 17:01	258454
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 17:01	258454
Calcium	NELAP	0.100		**189**	mg/L	1	06/19/2026 17:01	258454
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:01	258454
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:01	258454
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 17:01	258454
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 17:01	258454
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:07	258454
Arsenic	NELAP	0.0010		**0.0141**	mg/L	5	06/24/2026 13:07	258454
Lithium	*	0.0030		**0.0076**	mg/L	5	06/27/2026 16:41	258454
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:07	258454
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/24/2026 13:07	258454
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/24/2026 11:40	258478
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.480**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.090**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.390**	+/-	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power
Work Order: 26060603
Client Project: FGDS Landfill
Report Date: 09-Jul-26
Lab ID: 26060603-003
Client Sample ID: G122
Matrix: GROUNDWATER
Collection Date: 06/18/2026 11:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**506.11**	ft	1	06/18/2026 11:00	R386234
Depth to water	*	-5.00		**27.10**	ft	1	06/18/2026 11:00	R386234
Depth to water from measuring point	*	0		**28.84**	ft	1	06/18/2026 11:00	R386234
Elevation of groundwater surface	*	0		**526.56**	ft	1	06/18/2026 11:00	R386234
Measuring Point Elevation	*	0		**555.40**	ft	1	06/18/2026 11:00	R386234
Measuring Point Height Above Land Surface	*	0		**1.74**	ft	1	06/18/2026 11:00	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**22**	NTU	1	06/18/2026 11:00	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.6**	°F	1	06/18/2026 11:00	R386234
SW-846 9040B								
pH, Field	*	1.00		**6.56**		1	06/18/2026 11:00	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1770**	µS/cm	1	06/18/2026 11:00	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1290**	mg/L	1	06/22/2026 9:32	R386246
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/20/2026 4:00	R386144
Chloride	NELAP	5.00		**38.4**	mg/L	10	06/20/2026 4:00	R386144
Sulfate	NELAP	10.0		**516**	mg/L	10	06/20/2026 4:00	R386144
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.520**	mg/L	1	06/19/2026 17:02	258454
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 17:02	258454
Boron	NELAP	0.0200		**10.6**	mg/L	1	06/19/2026 17:02	258454
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 17:02	258454
Calcium	NELAP	0.100		**245**	mg/L	1	06/19/2026 17:02	258454
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:02	258454
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:02	258454
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 17:02	258454
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 17:02	258454
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:11	258454
Arsenic	NELAP	0.0010		**0.0019**	mg/L	5	06/24/2026 13:11	258454
Lithium	*	0.0030		**0.0072**	mg/L	5	06/27/2026 16:45	258454
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:11	258454
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/24/2026 13:11	258454
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/24/2026 11:43	258478
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.440**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.090**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.350**	+/-	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Lab ID: 26060603-004 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 06/18/2026 11:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	06/18/2026 11:15	R386234
Depth to water	*	-5.00		**0.15**	ft	1	06/18/2026 11:15	R386234
Depth to water from measuring point	*	0		**3.45**	ft	1	06/18/2026 11:15	R386234
Elevation of groundwater surface	*	0		**526.53**	ft	1	06/18/2026 11:15	R386234
Measuring Point Elevation	*	0		**529.98**	ft	1	06/18/2026 11:15	R386234
Measuring Point Height Above Land Surface	*	0		**3.30**	ft	1	06/18/2026 11:15	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.9**	NTU	1	06/18/2026 11:15	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	06/18/2026 11:15	R386234
SW-846 9040B								
pH, Field	*	1.00		**6.33**		1	06/18/2026 11:15	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1110**	µS/cm	1	06/18/2026 11:15	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**826**	mg/L	1	06/22/2026 9:32	R386246
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/20/2026 4:12	R386144
Chloride	NELAP	5.00		**29.4**	mg/L	10	06/20/2026 4:12	R386144
Sulfate	NELAP	10.0		**174**	mg/L	10	06/20/2026 4:12	R386144
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.603**	mg/L	1	06/19/2026 17:08	258454
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 17:08	258454
Boron	NELAP	0.0200		**3.06**	mg/L	1	06/19/2026 17:08	258454
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 17:08	258454
Calcium	NELAP	0.100	S	**158**	mg/L	1	06/19/2026 17:08	258454
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:08	258454
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:08	258454
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 17:08	258454
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 17:08	258454
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:15	258454
Arsenic	NELAP	0.0010		**0.0144**	mg/L	5	06/24/2026 13:15	258454
Lithium	*	0.0030		**0.0050**	mg/L	5	06/27/2026 17:04	258454
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:15	258454
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/24/2026 13:15	258454
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/24/2026 11:49	258478
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.580**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.100**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power
Work Order: 26060603
Client Project: FGDS Landfill
Report Date: 09-Jul-26
Lab ID: 26060603-004
Client Sample ID: AW-2
Matrix: GROUNDWATER
Collection Date: 06/18/2026 11:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.480**	+/-	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Lab ID: 26060603-005 **Client Sample ID:** P07D

Matrix: GROUNDWATER **Collection Date:** 06/17/2026 10:16

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.71**	ft	1	06/17/2026 10:16	R386234
Depth to water	*	-5.00		**0.49**	ft	1	06/17/2026 10:16	R386234
Depth to water from measuring point	*	0		**3.49**	ft	1	06/17/2026 10:16	R386234
Elevation of groundwater surface	*	0		**524.76**	ft	1	06/17/2026 10:16	R386234
Measuring Point Elevation	*	0		**528.25**	ft	1	06/17/2026 10:16	R386234
Measuring Point Height Above Land Surface	*	0		**3.00**	ft	1	06/17/2026 10:16	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**18**	NTU	1	06/17/2026 10:16	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.1**	°F	1	06/17/2026 10:16	R386234
SW-846 9040B								
pH, Field	*	1.00		**6.70**		1	06/17/2026 10:16	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1280**	µS/cm	1	06/17/2026 10:16	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**992**	mg/L	1	06/19/2026 10:05	R386291
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/23/2026 17:24	R386306
Chloride	NELAP	5.00		**31.0**	mg/L	10	06/23/2026 17:24	R386306
Sulfate	NELAP	10.0		**290**	mg/L	10	06/23/2026 17:24	R386306
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.854**	mg/L	1	06/19/2026 16:05	258385
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 16:05	258385
Boron	NELAP	0.0200		**4.94**	mg/L	1	06/19/2026 16:05	258385
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 16:05	258385
Calcium	NELAP	0.100		**185**	mg/L	1	06/19/2026 16:05	258385
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 16:05	258385
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 16:05	258385
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 16:05	258385
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 16:05	258385
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/01/2026 16:08	258385
Arsenic	NELAP	0.0010		**0.0272**	mg/L	5	07/01/2026 16:08	258385
Lithium	*	0.0400		**< 0.0400**	mg/L	5	06/26/2026 17:30	258385
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/01/2026 16:08	258385
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/01/2026 16:08	258385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/18/2026 12:35	258402
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.460**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.110**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.350**	+/-	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Lab ID: 26060603-006 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 06/18/2026 10:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	06/18/2026 10:04	R386234
Depth to water	*	-5.00		**11.81**	ft	1	06/18/2026 10:04	R386234
Depth to water from measuring point	*	0		**14.56**	ft	1	06/18/2026 10:04	R386234
Elevation of groundwater surface	*	0		**541.04**	ft	1	06/18/2026 10:04	R386234
Measuring Point Elevation	*	0		**555.60**	ft	1	06/18/2026 10:04	R386234
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	06/18/2026 10:04	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**26**	NTU	1	06/18/2026 10:04	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.3**	°F	1	06/18/2026 10:04	R386234
SW-846 9040B								
pH, Field	*	1.00		**6.59**		1	06/18/2026 10:04	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1310**	µS/cm	1	06/18/2026 10:04	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1130**	mg/L	1	06/22/2026 9:32	R386246
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/20/2026 4:25	R386144
Chloride	NELAP	5.00		**39.3**	mg/L	10	06/20/2026 4:25	R386144
Sulfate	NELAP	10.0		**411**	mg/L	10	06/20/2026 4:25	R386144
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.110**	mg/L	1	06/19/2026 17:03	258454
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 17:03	258454
Boron	NELAP	0.0200		**10.0**	mg/L	1	06/19/2026 17:03	258454
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 17:03	258454
Calcium	NELAP	0.100		**211**	mg/L	1	06/19/2026 17:03	258454
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:03	258454
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:03	258454
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 17:03	258454
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 17:03	258454
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:48	258454
Arsenic	NELAP	0.0010		**0.0357**	mg/L	5	06/24/2026 13:48	258454
Lithium	*	0.0030		**0.0104**	mg/L	5	06/27/2026 16:48	258454
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:48	258454
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/24/2026 13:48	258454
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/24/2026 11:51	258478
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.420**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.360**	+/-	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Lab ID: 26060603-007 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 06/17/2026 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	06/17/2026 10:15	R386234
Depth to water	*	-5.00		**16.91**	ft	1	06/17/2026 10:15	R386234
Depth to water from measuring point	*	0		**16.91**	ft	1	06/17/2026 10:15	R386234
Elevation of groundwater surface	*	0		**536.19**	ft	1	06/17/2026 10:15	R386234
Measuring Point Elevation	*	0		**553.10**	ft	1	06/17/2026 10:15	R386234
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	06/17/2026 10:15	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**59**	NTU	1	06/17/2026 10:15	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.6**	°F	1	06/17/2026 10:15	R386234
SW-846 9040B								
pH, Field	*	1.00		**6.61**		1	06/17/2026 10:15	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1910**	µS/cm	1	06/17/2026 10:15	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1440**	mg/L	1	06/19/2026 10:05	R386291
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/23/2026 18:15	R386306
Chloride	NELAP	5.00		**37.6**	mg/L	10	06/23/2026 18:15	R386306
Sulfate	NELAP	10.0		**566**	mg/L	10	06/23/2026 18:15	R386306
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**1.88**	mg/L	1	06/19/2026 16:07	258385
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 16:07	258385
Boron	NELAP	0.0200		**7.87**	mg/L	1	06/19/2026 16:07	258385
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 16:07	258385
Calcium	NELAP	0.100		**263**	mg/L	1	06/19/2026 16:07	258385
Chromium	NELAP	0.0050		**0.0061**	mg/L	1	06/19/2026 16:07	258385
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 16:07	258385
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 16:07	258385
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 16:07	258385
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/01/2026 16:11	258385
Arsenic	NELAP	0.0010		**0.0169**	mg/L	5	07/01/2026 16:11	258385
Lithium	*	0.0400		**< 0.0400**	mg/L	5	06/26/2026 17:33	258385
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/01/2026 16:11	258385
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/01/2026 16:11	258385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/18/2026 12:37	258402
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.490**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.100**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.390**	+/-	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Lab ID: 26060603-008 **Client Sample ID:** AW-4

Matrix: GROUNDWATER **Collection Date:** 06/17/2026 10:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.89**	ft	1	06/17/2026 10:14	R386234
Depth to water	*	-5.00		**18.30**	ft	1	06/17/2026 10:14	R386234
Depth to water from measuring point	*	0		**17.97**	ft	1	06/17/2026 10:14	R386234
Elevation of groundwater surface	*	0		**534.59**	ft	1	06/17/2026 10:14	R386234
Measuring Point Elevation	*	0		**552.56**	ft	1	06/17/2026 10:14	R386234
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	06/17/2026 10:14	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**32**	NTU	1	06/17/2026 10:14	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.0**	°F	1	06/17/2026 10:14	R386234
SW-846 9040B								
pH, Field	*	1.00		**6.44**		1	06/17/2026 10:14	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1360**	µS/cm	1	06/17/2026 10:14	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1130**	mg/L	1	06/19/2026 10:05	R386291
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/23/2026 18:27	R386306
Chloride	NELAP	5.00		**32.0**	mg/L	10	06/23/2026 18:27	R386306
Sulfate	NELAP	10.0		**408**	mg/L	10	06/23/2026 18:27	R386306
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.556**	mg/L	1	06/19/2026 16:08	258385
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 16:08	258385
Boron	NELAP	0.0200		**0.177**	mg/L	1	06/19/2026 16:08	258385
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 16:08	258385
Calcium	NELAP	0.100		**205**	mg/L	1	06/19/2026 16:08	258385
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 16:08	258385
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 16:08	258385
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 16:08	258385
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 16:08	258385
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/01/2026 16:15	258385
Arsenic	NELAP	0.0010		**0.0143**	mg/L	5	07/01/2026 16:15	258385
Lithium	*	0.0400		**< 0.0400**	mg/L	5	06/26/2026 17:36	258385
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/01/2026 16:15	258385
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/01/2026 16:15	258385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/18/2026 12:40	258402
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.370**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.300**	+/-	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Lab ID: 26060603-009 **Client Sample ID:** AW-5

Matrix: GROUNDWATER **Collection Date:** 06/18/2026 10:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**492.77**	ft	1	06/18/2026 10:02	R386234
Depth to water	*	-5.00		**23.42**	ft	1	06/18/2026 10:02	R386234
Depth to water from measuring point	*	0		**22.98**	ft	1	06/18/2026 10:02	R386234
Elevation of groundwater surface	*	0		**528.85**	ft	1	06/18/2026 10:02	R386234
Measuring Point Elevation	*	0		**551.83**	ft	1	06/18/2026 10:02	R386234
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	06/18/2026 10:02	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**66**	NTU	1	06/18/2026 10:02	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.3**	°F	1	06/18/2026 10:02	R386234
SW-846 9040B								
pH, Field	*	1.00		**6.43**		1	06/18/2026 10:02	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**965**	µS/cm	1	06/18/2026 10:02	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**646**	mg/L	1	06/22/2026 9:32	R386246
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/20/2026 4:38	R386144
Chloride	NELAP	5.00		**27.4**	mg/L	10	06/20/2026 4:38	R386144
Sulfate	NELAP	10.0		**25.3**	mg/L	10	06/20/2026 4:38	R386144
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.312**	mg/L	1	06/19/2026 17:03	258454
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 17:03	258454
Boron	NELAP	0.0200		**0.259**	mg/L	1	06/19/2026 17:03	258454
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 17:03	258454
Calcium	NELAP	0.100		**120**	mg/L	1	06/19/2026 17:03	258454
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:03	258454
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:03	258454
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 17:03	258454
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 17:03	258454
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:51	258454
Arsenic	NELAP	0.0010		**0.0086**	mg/L	5	06/24/2026 13:51	258454
Lithium	*	0.0030		**0.0208**	mg/L	5	06/27/2026 16:52	258454
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:51	258454
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/24/2026 13:51	258454
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/24/2026 11:53	258478
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.340**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.270**	+/-	1	07/01/2026 12:46	R387012

Client: City Water, Light & Power **Work Order:** 26060603

Client Project: FGDS Landfill **Report Date:** 09-Jul-26

Lab ID: 26060603-010 **Client Sample ID:** AW-6

Matrix: GROUNDWATER **Collection Date:** 06/18/2026 11:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**493.67**	ft	1	06/18/2026 11:17	R386234
Depth to water	*	-5.00		**-0.58**	ft	1	06/18/2026 11:17	R386234
Depth to water from measuring point	*	0		**1.86**	ft	1	06/18/2026 11:17	R386234
Elevation of groundwater surface	*	0		**525.25**	ft	1	06/18/2026 11:17	R386234
Measuring Point Elevation	*	0		**527.11**	ft	1	06/18/2026 11:17	R386234
Measuring Point Height Above Land Surface	*	0		**2.44**	ft	1	06/18/2026 11:17	R386234
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**38**	NTU	1	06/18/2026 11:17	R386234
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.0**	°F	1	06/18/2026 11:17	R386234
SW-846 9040B								
pH, Field	*	1.00		**6.80**		1	06/18/2026 11:17	R386234
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1810**	µS/cm	1	06/18/2026 11:17	R386234
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1570**	mg/L	1	06/22/2026 10:21	R386246
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/20/2026 4:50	R386144
Chloride	NELAP	5.00		**423**	mg/L	10	06/20/2026 4:50	R386144
Sulfate	NELAP	10.0		**96.4**	mg/L	10	06/20/2026 4:50	R386144
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.950**	mg/L	1	06/19/2026 17:10	258454
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/19/2026 17:10	258454
Boron	NELAP	0.0200		**9.21**	mg/L	1	06/19/2026 17:10	258454
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/19/2026 17:10	258454
Calcium	NELAP	0.100		**228**	mg/L	1	06/19/2026 17:10	258454
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:10	258454
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/19/2026 17:10	258454
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	06/19/2026 17:10	258454
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/19/2026 17:10	258454
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:55	258454
Arsenic	NELAP	0.0010		**0.0301**	mg/L	5	06/24/2026 13:55	258454
Lithium	*	0.0030		**0.0077**	mg/L	5	06/27/2026 16:56	258454
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/24/2026 13:55	258454
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/24/2026 13:55	258454
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/24/2026 11:55	258478
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**2.21**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.550**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**1.40**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.150**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.400**	+/-	1	07/01/2026 12:46	R387012

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 26060603
Report Date: 09-Jul-26

Carrier: Justin Colp

Received By: NK

Completed by: Emily Kossakoski
On: 17-Jun-26
Emily Kossakoski

Reviewed by: Amber Dilallo
On: 18-Jun-26
Amber Dilallo

Pages to follow: Chain of custody 2 Extra pages included 24

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 15.3
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #104524. - NK/ekossakoski - 6/17/2026 3:18:09 PM

Samples were received on 6/18/26 at 1342 on ice [temp17.5C, 8.7C, 17.9C - LTG#9]. pH# 104524. Added nitric acid (110747) to G121, AW2. -NO/lhenson - 6/18/2026 2:16:16 PM

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 26060603

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 15.3 °C 3
Preserved in: [ ] LAB [x] FIELD FOR LAB USE ONLY
LAB NOTES: PH 164524 NL 6/17/26

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

PROJECT NAME/NUMBER: FGDS Landfill
SAMPLE COLLECTOR'S NAME: Justin Colp

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	CI F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
26060603-001	R101		Groundwater	1	4								✔	✔	✔	✔	✔	✔
002	G121		Groundwater	1	4								✔	✔	✔	✔	✔	✔
003	G122		Groundwater	1	4								✔	✔	✔	✔	✔	✔
004	AW-2		Groundwater	1	4								✔	✔	✔	✔	✔	✔
005	P07D	6-17 1016	Groundwater	1	4								✔	✔	✔	✔	✔	✔
006	AW-1		Groundwater	1	4								✔	✔	✔	✔	✔	✔
007	G120	6-17 1015	Groundwater	1	4								✔	✔	✔	✔	✔	✔
008	AW-4	6-17 1014	Groundwater	1	4								✔	✔	✔	✔	✔	✔
009	AW-5		Groundwater	1	4								✔	✔	✔	✔	✔	✔
010	AW-6		Groundwater	1	4								✔	✔	✔	✔	✔	✔
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	6-17 1202	[signature]	6-17 1202

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 26060603

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 17.3, 18.2, 17.9C Hg9
Preserved in: [X] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: 1 Aw-5 bottle, 1 Aw-6 bottle NO 6/18/26
PH/ 605321 added HNO3 to 2/3 G121 bottles, 1 Aw-2 bottle

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

PROJECT NAME/NUMBER: FGDS Landfill
SAMPLE COLLECTOR'S NAME: Justin Colp

RESULTS REQUESTED: [✓] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other _____ [ ] 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
26060603-001	R101	6-18 1158	Groundwater	1	4								✓	✓	✓	✓	✓	✓
002	G121	6-18 929	Groundwater	1	4								✓	✓	✓	✓	✓	✓
003	G122	6-18 1100	Groundwater	1	4								✓	✓	✓	✓	✓	✓
004	AW-2	6-18 1115	Groundwater	1	4								✓	✓	✓	✓	✓	✓
005	P07D		Groundwater	1	4								✓	✓	✓	✓	✓	✓
006	AW-1	6-18 1004	Groundwater	1	4								✓	✓	✓	✓	✓	✓
007	G120		Groundwater	1	4								✓	✓	✓	✓	✓	✓
008	AW-4		Groundwater	1	4								✓	✓	✓	✓	✓	✓
009	AW-5	6-18 1002	Groundwater	1	4								✓	✓	✓	✓	✓	✓
010	AW-6	6-18 1117	Groundwater	1	4								✓	✓	✓	✓	✓	✓
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	6-18-26 1342		6/18/26 1342

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

July 07, 2026

Shelly Hennessy
TEKLAB Inc,
120 United Drive
Collinsville, IL 62234
TEL:
FAX:

RE: 26060603

Dear Shelly Hennessy:

Order No.: 26061760

Alliance Technical Group - Akron received 10 sample(s) on 6/22/2026 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **26061760**
Date: **7/7/2026**

CLIENT: TEKLAB Inc,
Project: 26060603

WorkOrder Narrative:
26061760: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence Sample Notes:
26061760-001A Radium-228_NPW(904.0): Sample exhibits low yield, and is confirmed by DUP.
26061760-004A Radium-228_NPW(904.0): Sample exhibits low yield. Sample is an NPW.

Analytical Sequence QC Notes:
LCS/LCSD-97614 Radium-228_DW(904.0): LCS/LCSD demonstrate high RPD. Both results are within acceptable criteria individually.
26061760-001ADUP Radium-228_NPW(904.0): Sample exhibits low yield, and is confirmed by DUP.

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

Workorder Sample Summary

WO#: **26061760**

07-Jul-26

CLIENT: TEKLAB Inc,
Project: 26060603

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
26061760-001	26060603-001		6/18/2026 11:58:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water
26061760-002	26060603-002		6/18/2026 9:29:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water
26061760-003	26060603-003		6/18/2026 11:00:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water
26061760-004	26060603-004		6/18/2026 11:15:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water
26061760-005	26060603-005		6/17/2026 10:16:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water
26061760-006	26060603-006		6/18/2026 10:04:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water
26061760-007	26060603-007		6/17/2026 10:15:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water
26061760-008	26060603-008		6/17/2026 10:14:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water
26061760-009	26060603-009		6/18/2026 10:02:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water
26061760-010	26060603-010		6/18/2026 11:17:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water

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Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,

Collection Date: 6/18/2026 11:58:00 AM

Project: 26060603

Lab ID: 26061760-001

Matrix: NON-POTABLE WATER

Client Sample ID: 26060603-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.400	1	7/2/2026 10:05:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.100	1	7/2/2026 10:05:00 AM
Yield	0.650					1	7/2/2026 10:05:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.300	1	7/1/2026 12:46:00 PM
Yield	0.650					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
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Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,

Collection Date: 6/18/2026 9:29:00 AM

Project: 26060603

Lab ID: 26061760-002

Matrix: NON-POTABLE WATER

Client Sample ID: 26060603-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.480	1	7/2/2026 10:05:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	7/2/2026 10:05:00 AM
Yield	0.960					1	7/2/2026 10:05:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.390	1	7/1/2026 12:46:00 PM
Yield	0.730					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,

Collection Date: 6/18/2026 11:00:00 AM

Project: 26060603

Lab ID: 26061760-003

Matrix: NON-POTABLE WATER

Client Sample ID: 26060603-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.440	1	7/2/2026 10:05:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0900	1	7/2/2026 10:05:00 AM
Yield	0.950					1	7/2/2026 10:05:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.350	1	7/1/2026 12:46:00 PM
Yield	0.860					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,
Project: 26060603
Lab ID: 26061760-004
Client Sample ID: 26060603-004

Collection Date: 6/18/2026 11:15:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.580	1	7/2/2026 10:05:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.100	1	7/2/2026 10:05:00 AM
Yield	0.930					1	7/2/2026 10:05:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.480	1	7/1/2026 12:46:00 PM
Yield	0.600					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,

Collection Date: 6/17/2026 10:16:00 AM

Project: 26060603

Lab ID: 26061760-005

Matrix: NON-POTABLE WATER

Client Sample ID: 26060603-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.460	1	7/2/2026 10:05:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.110	1	7/2/2026 10:05:00 AM
Yield	1.00					1	7/2/2026 10:05:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.350	1	7/1/2026 12:46:00 PM
Yield	1.00					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,

Collection Date: 6/18/2026 10:04:00 AM

Project: 26060603

Lab ID: 26061760-006

Matrix: NON-POTABLE WATER

Client Sample ID: 26060603-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.420	1	7/2/2026 10:05:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	7/2/2026 10:05:00 AM
Yield	0.830					1	7/2/2026 10:05:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.360	1	7/1/2026 12:46:00 PM
Yield	0.830					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,
Project: 26060603
Lab ID: 26061760-007
Client Sample ID: 26060603-007

Collection Date: 6/17/2026 10:15:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.490	1	7/2/2026 10:05:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.100	1	7/2/2026 10:05:00 AM
Yield	1.00					1	7/2/2026 10:05:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	ND	1.00		pCi/L	± 0.390	1	7/1/2026 12:46:00 PM
Yield	1.00					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,
Project: 26060603
Lab ID: 26061760-008
Client Sample ID: 26060603-008

Collection Date: 6/17/2026 10:14:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.370	1	7/2/2026 10:05:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	7/2/2026 10:05:00 AM
Yield	1.00					1	7/2/2026 10:05:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.300	1	7/1/2026 12:46:00 PM
Yield	1.00					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,

Collection Date: 6/18/2026 10:02:00 AM

Project: 26060603

Lab ID: 26061760-009

Matrix: NON-POTABLE WATER

Client Sample ID: 26060603-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.340	1	7/2/2026 10:05:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	7/2/2026 10:05:00 AM
Yield	1.00					1	7/2/2026 10:05:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.270	1	7/1/2026 12:46:00 PM
Yield	1.00					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26061760**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,
Project: 26060603
Lab ID: 26061760-010
Client Sample ID: 26060603-010

Collection Date: 6/18/2026 11:17:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	2.21	2.00		pCi/L	± 0.550	1	7/2/2026 10:05:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	1.40	1.00		pCi/L	± 0.150	1	7/2/2026 10:05:00 AM
Yield	1.00					1	7/2/2026 10:05:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.400	1	7/1/2026 12:46:00 PM
Yield	1.00					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Qualifiers and Acronyms

WO#: **26061760**
Date: **7/7/2026**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
D	Manual integration in which peak was deleted.
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	A deviation from the method was performed; Please refer to the Case Narrative for additional information.

Acroynms

ND	Not Detected
QC	Quality Control
MB	Method Blank
LCS	Laboratory Control Sample
LCS	Laboratory Control Sample Duplicate
QCS	Quality Control Sample
DUP	Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Different
ICV	Initial Calibration Verification
ICB	Initial Calibration Blank
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blank
RLC	Reporting Limit Check
DF	Dilution Factor

RL	Reporting Limit
MDL	Method Detection Limit
LOD	Level of Detection
LOQ	Level of Quantitation
PQL	Practical Quantitation Limit
CRQL	Contract Required Quantitation Limit
PL	Permit Limit
RegLvl	Regulatory Limit
MCL	Maximum Contamination Limit
MinCL	Minimum Compound Limit
RA	Reanalysis
RE	Reextraction
TIC	Tentatively Identified Compound
RT	Retention Time
CF	Calibration Factor
RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Accreditation Program Analytes Report

WO#: **26061760**

07-Jul-26

Client: TEKLAB Inc,
State: IL
Project: 26060603
Program: Illinois EPA

Test Name	Matrix	Analyte	Status
Combined Radium (EPA903+904)	Non-Potable Water	Radium-226/Radium-228	N
Radium-226 (EPA 903.0)	Non-Potable Water	Radium-226	N
Radium-226 (EPA 903.0)	Non-Potable Water	Yield	N
Radium-228 (EPA 904.0)	Non-Potable Water	Radium-228	N
Radium-228 (EPA 904.0)	Non-Potable Water	Yield	N

Accreditation (Acc.) Status Key	
A: Accredited	N: Not Accredited
P: Provisional	U: Unavailable

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DATES REPORT

WO#: **26061760**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060603

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26061760-001A	26060603-001	6/18/2026 11:58:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM
26061760-002A	26060603-002	6/18/2026 9:29:00 AM		Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM
26061760-003A	26060603-003	6/18/2026 11:00:00 AM		Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM
26061760-004A	26060603-004	6/18/2026 11:15:00 AM		Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM
26061760-005A	26060603-005	6/17/2026 10:16:00 AM		Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM
26061760-006A	26060603-006	6/18/2026 10:04:00 AM		Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM
26061760-007A	26060603-007	6/17/2026 10:15:00 AM		Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM
26061760-008A	26060603-008	6/17/2026 10:14:00 AM		Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM

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DATES REPORT

WO#: **26061760**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060603

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26061760-008A	26060603-008	6/17/2026 10:14:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM
26061760-009A	26060603-009	6/18/2026 10:02:00 AM		Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM
26061760-010A	26060603-010	6/18/2026 11:17:00 AM		Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM

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QC SUMMARY REPORT

WO#: **26061760**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060603 **BatchID:** **97614**

Sample ID: **26061760-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **26060603-001**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290117**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.560			0	0			0.6500	14.9		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance TECHNICAL GROUP

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QC SUMMARY REPORT

WO#: **26061760**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060603 **BatchID:** **97614**

Sample ID: **MB-97614**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-97614**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.76	1.00	5.000	0	55.2	50	130				QLR
Yield	0.860			0	0						

Sample ID: **LCSD-97614**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.83	1.00	5.000	0	76.6	50	130	2.760	32.5	20	R
Yield	0.950			0	0			0.8600	9.94		

Sample ID: **26061756-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26061760**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060603 **BatchID:** **97614**

Sample ID: **26061756-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	0.870			0	0			0.8600	1.16		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26061760**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060603 **BatchID:** **97614**

Sample ID: **26061760-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **26060603-001**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.630							0.6500	3.13	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26061760**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060603 **BatchID:** **97614**

Sample ID: **MB-97614**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-97614**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.35	1.00	5.000	0	127	70	130				

Sample ID: **LCSD-97614**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290426**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.27	1.00	5.000	0	125	70	130	6.350	1.27	20	

Sample ID: **26061756-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290434**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.930							0.9500	2.13	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg ___ of ___

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

26061760

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: Sampler: Client QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = IL

Project# 26060603

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com

Requested Due Date: Standard TAT Billing/PO: 41373 Phone: (618) 344-1004 x 1024

Temp: 21.3°C (21.2+0.1)

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Combined Radium			PH	cpm	PH	cpm	PH	cpm	PH	cpm
	26060603-001	6/18/26 1158	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	40	1	35	3	26	1	38
	26060603-002	6/18/26 929	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	42	2	30	3	32	2	40
	26060603-003	6/18/26 1100	☐	☑	☐	☐	☐	Groundwater	✓	✔			2	36	2	24	3	40	1	42
	26060603-004	6/18/26 1115	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	22	2	36	2	14		
	26060603-005	6/17/26 1016	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	24	2	24	2	12		
	26060603-006	6/18/26 1004	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	30	2	30	2	20		
	26060603-007	6/17/26 1015	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	27	2	36	2	40		
	26060603-008	6/17/26 1014	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	30	2	26	2	26		
	26060603-009	6/18/26 1002	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	23	2	24	1	32		
	26060603-010	6/18/26 1117	☐	☑	☐	☐	☐	Groundwater	✔	✔										
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	6/18/26 1700	Paisa Yerra	6/22/26 10:45
			Fedex

Teklab maintains a strict policy of client confidentiality and as such does not provide client or sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevB 1/12/2026

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **26061760** RcptNo: **1**

Logged by:	**Paige J. Yerick**	**6/22/2026 10:45:00 AM**	Paige Yerich
Completed By:	**Paige J. Yerick**	**6/23/2026 5:41:08 PM**	Paige Yerich
Reviewed By:	**Jennifer Woolf**	**6/23/2026 6:12:22 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑ NA ☐
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:
    007 = ph 3

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.3	Good	Not Present			

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	R101
Project Location:	Springfield IL	**Sample ID:**	001
W.O. Number (s):	26060603	**Date (s):**	6/18/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 6/18/26 11:36 AM

Static Water Level: 7.59 feet below TOC

Total Depth: 35.27 feet below TOC

Water Column: 27.68 feet

Purging Activities

Purged By: DC Purge Date: 6/18/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 27.68 ft. x 0.022 = 0.61 L x 3 Vol. = 1.83 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 2.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:36	0.0	91	purge start time						
11:37	0.1	↓	7.00	1,063.50	16.49	2.22	-31.90	4.89	7.92
11:40	0.4		7.10	1,105.80	15.64	1.07	-43.50	3.55	8.18
11:43	0.6		7.12	1,104.50	14.96	0.64	-52.10	8.45	8.39
11:46	0.9		7.12	1,104.40	15.01	0.54	-57.00	10.70	8.46
11:49	1.2		7.11	1,091.30	15.77	0.61	-59.10	13.16	8.68
11:52	1.5		7.12	1,109.90	15.12	0.58	-60.60	12.09	8.86
11:55	1.7		7.12	1,105.90	15.06	0.47	-62.70	14.66	9.02
11:58	2.0		7.12	1,108.00	15.34	0.47	-64.00	9.52	9.02

Sampling Activities

Sampled By: BG Sample Date/Time: 6/18/2026 11:58

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 7.12 pH 1,108.00 Spec. Cond. 15.34 Temp

Field Filtered: No Filter Type:

Water Level: 9.03 feet below TOC Drawdown: 1.44 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 44622

Form Completed By: Brett Gillihan **Date:** 6/18/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	G121
Project Location:	Springfield IL	**Sample ID:**	002
W.O. Number (s):	26060603	**Date (s):**	6/18/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing	X	
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 6/18/26 9:00 AM

Static Water Level: 27.78 feet below TOC

Total Depth: 58.56 feet below TOC

Water Column: 30.78 feet

Purging Activities

Purged By: PY Purge Date: 6/18/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 30.78 ft. x 0.022 = 0.68 L x 3 Vol. = 2.04 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 2.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:00	0.0	69	purge start time						
9:02	0.1	↓	7.18	1,537.50	16.57	3.82	288.20	16.46	27.78
9:05	0.3		6.91	1,518.60	16.32	1.87	302.20	14.60	27.91
9:08	0.6		6.85	1,524.20	16.28	1.67	306.30	10.03	27.97
9:11	0.8		6.84	1,518.20	16.25	1.50	291.40	8.85	27.97
9:14	1.0		6.85	1,515.50	16.08	1.31	258.00	8.81	27.99
9:17	1.2		6.71	1,533.70	15.87	1.24	-43.30	9.50	28.00
9:20	1.4		6.67	1,563.80	15.74	1.15	-81.70	8.98	28.00
9:23	1.6		6.66	1,580.50	15.78	1.05	-98.10	8.90	28.00
9:26	1.8		6.66	1,584.70	15.76	0.97	-106.50	8.68	28.01
9:29	2.0		6.66	1,588.00	15.65	0.92	-111.30	8.17	28.01

Sampling Activities

Sampled By: PY Sample Date/Time: 6/18/2026 9:29

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.66 pH 1,588.00 Spec. Cond. 15.65 Temp

Field Filtered: No Filter Type:

Water Level: 28.01 feet below TOC Drawdown: 0.23 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 46864

Form Completed By: Allison Lampe **Date:** 6/18/2026

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield IL
W.O. Number (s): 26060603
Monitoring Point: G122
Sample ID: 003
Date (s): 6/18/2026

Field Team Members

Name: Allison Lampe — Affiliation: TekLab, Inc.
Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F — Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 6/18/26 10:00 AM
Static Water Level: 28.84 feet below TOC
Total Depth: 49.29 feet below TOC
Water Column: 20.45 feet

Purging Activities

Purged By: PY — Purge Date: 6/18/2026
Purge Method: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 20.45 ft. x 0.022 = 0.45 L x 3 Vol. = 1.35 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:00	0.0	83	purge start time						
10:03	0.2	↓	7.09	1,706.20	17.55	5.71	39.50	74.56	28.85
10:06	0.5		6.78	1,729.10	15.59	1.87	9.80	40.07	28.85
10:09	0.7		6.70	1,735.60	15.67	1.54	-4.90	36.90	28.85
10:12	1.0		6.68	1,735.40	15.65	1.38	-13.80	37.45	28.86
10:15	1.3		6.66	1,735.30	15.57	1.28	-20.90	39.70	28.86
10:18	1.5		7.01	11.70	15.93	9.71	-37.30	90.10	28.86
10:21	1.8		6.69	1,736.10	14.95	1.49	-40.00	42.64	28.87
10:24	2.0		6.65	1,739.20	14.99	1.10	-46.10	39.44	28.89
10:27	2.3		6.62	1,742.60	14.99	1.02	-54.60	37.77	28.89
10:30	2.5		6.61	1,748.20	15.03	0.97	-64.60	35.79	28.90
10:33	2.8		6.60	1,755.00	15.01	0.94	-74.40	33.27	28.89
10:36	3.0		6.58	1,757.80	15.04	0.91	-83.10	34.48	28.90
10:39	3.3		6.58	1,763.70	15.01	0.87	-89.80	31.85	28.90
10:42	3.5		6.57	1,766.20	15.10	0.85	-94.30	31.51	28.90
10:45	3.8		6.57	1,768.20	15.17	0.83	-98.10	27.93	28.90
10:48	4.0		6.57	1,770.00	15.14	0.81	-100.60	26.93	28.90
10:51	4.3		6.56	1,771.70	15.15	0.78	-102.50	22.43	28.90
10:54	4.5		6.56	1,770.00	15.33	0.77	-103.70	33.77	28.90
10:57	4.8		6.56	1,771.80	15.47	0.77	-104.90	22.81	28.89
11:00	5.0		6.56	1,772.50	15.88	0.76	-105.90	22.32	28.90

Sampling Activities

Sampled By: PY — Sample Date/Time: 6/18/2026 11:00
Sample Method: Low Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.56 pH — 1,772.50 Spec. Cond. — 15.88 Temp
Field Filtered: No — Filter Type:
Water Level: 28.90 feet below TOC — Drawdown: 0.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 46864

Form Completed By: Allison Lampe — **Date:** 6/18/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-2
Project Location:	Springfield IL	**Sample ID:**	004
W.O. Number (s):	26060603	**Date (s):**	6/18/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 68 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☐ None ☑ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

			Locks	Yes	No
Well Pad	Good		Protective Casing		X
Casing	Good		Well		X
Protective Casing	Good				
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 6/18/26 10:30 AM

Static Water Level: 3.45 feet below TOC

Total Depth: 32.64 feet below TOC

Water Column: 29.19 feet

Purging Activities

Purged By: JC Purge Date: 6/18/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 29.19 ft. x 0.022 = 0.64 L x 3 Vol. = 1.92 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 10.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:30	0.0	222	purge start time						
10:33	0.7	↓	6.71	989.30	14.44	1.37	-22.70	67.36	3.45
10:36	1.3		6.64	1,005.60	14.87	1.10	-35.50	52.36	3.45
10:39	2.0		6.59	1,024.70	14.78	0.90	-44.60	47.89	3.45
10:42	2.7		6.57	1,060.40	14.77	0.77	-52.30	39.77	3.45
10:45	3.3		6.46	1,069.00	14.73	0.70	-60.30	36.47	3.45
10:48	4.0		6.39	1,071.50	14.68	0.65	-67.60	33.34	3.45
10:51	4.7		6.33	1,102.30	14.72	0.61	-73.20	35.31	3.45
10:54	5.3		6.33	1,117.30	14.76	0.57	-79.50	32.51	3.45
10:57	6.0		6.42	1,118.10	14.83	0.55	-85.10	28.37	3.45
11:00	6.7		6.34	1,115.60	14.86	0.51	-89.90	27.19	3.45
11:03	7.3		6.30	1,115.00	15.03	0.49	-93.90	22.41	3.45
11:06	8.0		6.29	1,115.20	15.14	0.49	-97.30	17.36	3.45
11:09	8.7		6.31	1,115.20	15.05	0.48	-100.20	13.63	3.45
11:12	9.3		6.28	1,112.40	15.03	0.47	-102.60	10.30	3.45
11:15	10.0		6.33	1,112.50	15.01	0.47	-104.70	8.92	3.45

Sampling Activities

Sampled By: JC Sample Date/Time: 6/18/2026 11:15

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.33 pH 1,112.50 Spec. Cond. 15.01 Temp

Field Filtered: No Filter Type:

Water Level: 3.45 feet below TOC Drawdown: 0.00 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp **Date:** 6/18/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	P07D
Project Location:	Springfield IL	**Sample ID:**	005
W.O. Number (s):	26060603	**Date (s):**	6/17/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 69 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 6/17/26 9:16 AM

Static Water Level: 3.49 feet below TOC

Total Depth: 32.54 feet below TOC

Water Column: 29.05 feet

Purging Activities

Purged By: DC Purge Date: 6/17/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 29.05 ft. x 0.022 = 0.64 L x 3 Vol. = 1.92 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:16	0.0	100	purge start time						
9:58	4.2	↓	6.68	1,287.80	16.25	0.57	-42.20	37.64	4.69
10:01	4.5		6.68	1,284.80	16.22	0.56	-44.60	32.34	4.69
10:04	4.8		6.68	1,282.00	16.08	0.51	-46.80	27.63	4.70
10:07	5.1		6.69	1,281.80	15.92	0.49	-49.10	27.57	4.70
10:10	5.4		6.69	1,277.30	15.91	0.50	-51.20	20.86	4.71
10:13	5.7		6.69	1,277.60	15.97	0.49	-53.10	21.32	4.70
10:16	6.0		6.70	1,277.00	15.07	0.40	-54.80	18.07	4.71

Sampling Activities

Sampled By: BG Sample Date/Time: 6/17/2026 10:16

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.70 pH 1,277.00 Spec. Cond. 15.07 Temp

Field Filtered: No Filter Type:

Water Level: 4.70 feet below TOC Drawdown: 1.21 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 44622

Form Completed By: Brett Gillihan **Date:** 6/17/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-1
Project Location:	Springfield IL	**Sample ID:**	006
W.O. Number (s):	26060603	**Date (s):**	6/18/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 6/18/26 9:03 AM

Static Water Level: 14.56 feet below TOC

Total Depth: 54.81 feet below TOC

Water Column: 40.25 feet

Purging Activities

Purged By: DC Purge Date: 6/18/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 40.25 ft. x 0.022 = 0.89 L x 3 Vol. = 2.67 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Lt Yellow

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:03	0.0	98	purge start time						
9:10	0.7	↓	6.80	1,340.50	15.65	1.47	99.50	103.49	15.34
9:13	1.0		6.63	1,331.60	15.90	0.90	100.10	147.54	16.80
9:16	1.3		6.61	1,326.60	15.98	0.84	97.40	138.55	16.21
9:19	1.6		6.60	1,321.70	15.86	0.76	93.60	122.02	16.26
9:22	1.9		6.60	1,319.10	15.77	0.72	89.50	101.39	16.35
9:25	2.2		6.59	1,316.70	15.61	0.68	85.60	92.57	16.43
9:28	2.5		6.59	1,315.30	15.70	0.64	81.70	73.03	16.48
9:31	2.8		6.58	1,312.30	15.88	0.62	78.10	63.12	16.52
9:34	3.0		6.58	1,313.10	16.12	0.61	74.80	53.51	16.53
9:37	3.3		6.58	1,312.90	16.32	0.61	72.10	49.75	16.54
9:40	3.6		6.57	1,314.40	16.68	0.61	69.40	48.91	16.57
9:43	3.9		6.57	1,312.70	16.89	0.62	67.00	43.08	16.56
9:46	4.2		6.57	1,317.40	16.91	0.63	64.40	43.57	16.63
9:49	4.5		6.58	1,316.30	16.26	0.56	62.00	40.24	16.66
9:52	4.8		6.58	1,313.30	16.04	0.52	59.40	32.53	16.71
9:55	5.1		6.58	1,313.10	15.84	0.47	57.20	31.52	16.72
9:58	5.4		6.58	1,311.60	15.90	0.45	55.00	26.79	16.75
10:01	5.7		6.59	1,312.90	15.83	0.44	52.80	25.01	16.75
10:04	6.0		6.59	1,311.70	15.74	0.43	50.80	25.60	16.76

Sampling Activities

Sampled By: BG Sample Date/Time: 6/18/2026 10:04

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.59 pH 1,311.70 Spec. Cond. 15.74 Temp

Field Filtered: No Filter Type:

Water Level: 16.78 feet below TOC Drawdown: 2.22 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 44622

Form Completed By: Brett Gillihan **Date:** 6/18/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	G120
Project Location:	Springfield IL	**Sample ID:**	007
W.O. Number (s):	26060603	**Date (s):**	6/17/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 69 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 6/17/26 9:17 AM

Static Water Level: 16.91 feet below TOC

Total Depth: 50.37 feet below TOC

Water Column: 33.46 feet

Purging Activities

Purged By: PY Purge Date: 6/17/2026

Purge Method: Submersible Pump Well Diameter: 2"

Purge Volume Calculation (L): 33.46 ft. x 0.022 = 0.74 L x 3 Vol. = 2.22 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 10.00 L

Physical appearance of purge water: Cloudy Odor: Moderate Color: Black

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:10	0.0	167	purge start time						
10:00	8.3	↓	6.59	1,931.60	15.38	-0.02	-128.40	19.23	17.29
10:03	8.8		6.59	1,930.70	15.20	-0.03	-129.50	18.26	17.29
10:06	9.3		6.65	1,928.90	15.92	3.76	-117.00	20.57	17.30
10:09	9.8		6.59	1,919.30	15.88	0.27	-120.40	58.99	17.30
10:12	10.3		6.59	1,913.60	16.77	0.12	-122.80	65.25	17.30
10:15	10.8		6.61	1,914.80	16.45	0.07	-124.60	58.53	17.30

Sampling Activities

Sampled By: PY Sample Date/Time: 6/17/2026 10:15

Sample Method: Low Flow Sample Equipment: Submersible Pump

Sample Parameters: 6.61 pH 1,914.80 Spec. Cond. 16.45 Temp

Field Filtered: No Filter Type:

Water Level: 17.34 feet below TOC Drawdown: 0.43 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 46864

Form Completed By: Allison Lampe **Date:** 6/17/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-4
Project Location:	Springfield IL	**Sample ID:**	008
W.O. Number (s):	26060603	**Date (s):**	6/17/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 69 °F — Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 6/17/26 9:09 AM

Static Water Level: 17.97 feet below TOC

Total Depth: 56.67 feet below TOC

Water Column: 38.70 feet

Purging Activities

Purged By: JC — Purge Date: 6/17/2026

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 38.7 ft. x 0.022 = 0.85 L x 3 Vol. = 2.55 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 11.00 L

Physical appearance of purge water: Cloudy — Odor: None — Color: lt brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:14	0.0	183	purge start time						
9:55	7.5	↓	6.52	1,365.40	17.12	1.00	69.70	32.04	18.23
9:58	8.1		6.45	1,369.30	17.27	0.99	61.80	33.08	18.26
10:02	8.8		6.42	1,371.90	17.20	0.94	46.80	34.96	18.31
10:05	9.4		6.42	1,370.30	17.01	0.91	33.20	36.01	18.34
10:08	9.9		6.42	1,367.20	16.68	0.89	20.10	38.41	18.36
10:11	10.5		6.32	1,361.00	16.98	0.87	7.20	38.66	18.39
10:14	11.0		6.44	1,357.70	17.24	0.92	-6.40	32.35	18.41

Sampling Activities

Sampled By: JC — Sample Date/Time: 6/17/2026 10:14

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.44 pH — 1,357.70 Spec. Cond. — 17.24 Temp

Field Filtered: No — Filter Type:

Water Level: 18.44 feet below TOC — Drawdown: 0.47 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp — **Date:** 6/17/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-5
Project Location:	Springfield IL	**Sample ID:**	009
W.O. Number (s):	26060603	**Date (s):**	6/18/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 66 °F — Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 6/18/26 8:56 AM

Static Water Level: 22.98 feet below TOC

Total Depth: 59.06 feet below TOC

Water Column: 36.08 feet

Purging Activities

Purged By: JC — Purge Date: 6/18/2026

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 36.08 ft. x 0.022 = 0.79 L x 3 Vol. = 2.37 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 12.00 L

Physical appearance of purge water: Slightly cloudy — Odor: Slight — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:00	0.0	194	purge start time						
9:02	0.4	↓	7.84	991.70	17.06	4.60	56.40	16.88	23.22
9:05	1.0		7.17	931.60	16.38	2.01	-14.00	56.82	23.22
9:08	1.5		6.84	924.30	16.09	1.42	-38.60	41.07	23.22
9:11	2.1		6.76	920.90	15.96	1.16	-54.90	33.24	23.22
9:14	2.7		6.72	919.60	15.76	1.01	-66.70	36.62	23.22
9:17	3.3		6.69	918.70	15.71	0.91	-75.50	19.75	23.22
9:20	3.9		6.66	919.00	15.68	0.85	-82.50	27.65	23.22
9:23	4.5		6.62	924.60	15.66	0.81	-88.00	36.02	23.22
9:26	5.0		6.59	932.60	15.62	0.77	-92.60	43.75	23.22
9:29	5.6		6.57	950.80	15.64	0.74	-96.70	58.15	23.22
9:32	6.2		6.58	969.90	15.64	0.70	-100.50	39.46	23.22
9:35	6.8		6.58	974.50	15.70	0.68	-104.30	50.83	23.22
9:38	7.4		7.15	974.20	15.79	0.66	-107.40	58.78	23.22
9:41	7.9		6.76	977.00	15.89	0.65	-109.70	71.32	23.22
9:44	8.5		6.66	976.50	15.91	0.65	-111.40	45.15	23.22
9:47	9.1		6.53	973.00	15.80	0.63	-112.80	66.48	23.22
9:50	9.7		6.52	967.60	15.71	0.61	-113.80	52.63	23.22
9:53	10.3		6.49	968.60	15.71	0.60	-114.50	65.32	23.22
9:56	10.8		6.49	965.20	15.80	0.59	-115.20	56.63	23.22
9:59	11.4		6.46	967.30	15.80	0.59	-115.80	57.52	23.22
10:02	12.0		6.43	964.60	15.74	0.59	-116.30	65.53	23.22

Sampling Activities

Sampled By: JC — Sample Date/Time: 6/18/2026 10:02

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.43 pH — 964.60 Spec. Cond. — 15.74 Temp

Field Filtered: No — Filter Type:

Water Level: 23.22 feet below TOC — Drawdown: 0.24 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp — **Date:** 6/18/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-6
Project Location:	Springfield IL	**Sample ID:**	010
W.O. Number (s):	26060603	**Date (s):**	6/18/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 69 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☐ None ☑ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 6/18/26 10:16 AM

Static Water Level: 1.86 feet below TOC

Total Depth: 33.44 feet below TOC

Water Column: 31.58 feet

Purging Activities

Purged By: DC Purge Date: 6/18/2026

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 31.58 ft. x 0.022 = 0.69 L x 3 Vol. = 2.07 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:16	0.0	98	purge start time						
10:17	0.1	↓	7.35	7.40	18.47	7.78	69.60	6.50	1.88
10:20	0.4		6.79	1,760.80	14.65	0.91	81.80	32.96	1.98
10:23	0.7		6.76	1,789.90	15.17	0.58	62.60	36.24	1.98
10:26	1.0		6.77	1,792.70	15.25	0.52	42.60	38.09	1.98
10:29	1.3		6.78	1,792.40	15.20	0.49	23.50	45.79	1.98
10:32	1.6		6.79	1,792.80	15.06	0.46	7.00	45.18	1.98
10:35	1.9		6.79	1,795.70	14.97	0.44	-6.30	42.36	1.98
10:38	2.2		6.80	1,795.40	14.96	0.41	-16.50	41.72	1.98
10:41	2.5		6.80	1,797.00	15.00	0.39	-24.40	42.61	1.98
10:44	2.8		6.80	1,796.90	14.99	0.37	-30.90	46.49	1.98
10:47	3.0		6.80	1,797.50	14.86	0.35	-36.30	38.28	1.98
10:50	3.3		6.80	1,796.20	15.00	0.35	-41.00	38.02	1.99
10:53	3.6		6.80	1,797.60	15.12	0.35	-45.20	34.91	1.98
10:56	3.9		6.80	1,803.70	15.17	0.33	-49.20	31.54	1.98
10:59	4.2		6.79	1,802.30	15.58	0.32	-53.00	34.65	1.98
11:02	4.5		6.78	1,802.20	16.30	0.36	-56.10	28.78	1.98
11:05	4.8		6.79	1,811.30	16.37	0.35	-59.10	30.16	1.98
11:08	5.1		6.79	1,815.90	16.42	0.36	-61.90	32.43	1.98
11:11	5.4		6.80	1,819.10	16.13	0.34	-64.30	37.48	1.98
11:14	5.7		6.81	1,808.70	16.07	0.33	-66.50	40.83	1.98
11:17	6.0		6.80	1,811.80	16.09	0.34	-68.20	38.29	1.98

Sampling Activities

Sampled By: BG Sample Date/Time: 6/18/2026 11:17

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.80 pH 1,811.80 Spec. Cond. 16.09 Temp

Field Filtered: No Filter Type:

Water Level: 1.98 feet below TOC Drawdown: 0.12 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 44622

Form Completed By: Brett Gillihan **Date:** 6/18/2026

Site Samping Event: FG DS Landfill
LIMS Workorder: 26060603
Technician(s): DC, JC, BG, AL, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 44622 Technician(s): Brett Gillihan Date: 6/17/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260305A	4	125.2	6/17/26 9:16
7.0 Buffer	WC260305B	7.00	-41.30	6/17/26 9:16
10.0 Buffer	WC260305C	10.00	-219.80	6/17/26 9:16
LCS/CCV (7.0 Buffer)	WC260305D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	6/17/26 9:16

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.7	6/17/26 9:16
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	6/17/26 9:16	19.3	7.01	1,412	0.1		
CCV-1-BG	CCV	6/17/26 10:24	19.5	7.00	1,413	0.11		

Comments:

Field Meter ID: Pine 44622 Technician(s): Brett Gilllihan Date: 6/18/2027

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260305A	4.00	130.40	6/18/26 8:47
7.0 Buffer	WC260305B	7.00	-47.10	6/18/26 8:43
10.0 Buffer	WC260305C	10.00	-202.90	6/18/26 8:50
LCS/CCV (7.0 Buffer)	WC260305D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	6/18/26 8:54

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.11	6/18/26 8:57
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	6/18/26 8:59	19.5	7.01	1,412	0.08		
CCV-2-BG	CCV	6/18/26 12:08	21.2	7.00	1,414	0.1		

Comments:

Site Samping Event: FG DS Landfill
LIMS Workorder: 26060603
Technician(s): DC, JC, BG, AL, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 217941 Technician(s): justin colp Date: 6/17/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260305A	4	45.4	6/17/26 8:40
7.0 Buffer	WC260305B	7.00	-141.30	6/17/26 8:36
10.0 Buffer	WC260305C	10.00	-212.20	6/17/26 8:46
LCS/CCV (7.0 Buffer)	WC260305D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	6/17/26 8:51

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.77	6/17/26 8:55
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	6/17/26 9:05	20.9	7.01	1,408	1.71		
CCV-1-JC	CCV	6/17/26 10:20	21.1	6.97	1,387	2.02		

Comments:

Field Meter ID: Pine 217941 Technician(s): justin colp Date: 6/18/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260305A	4.00	-3.60	6/18/26 8:37
7.0 Buffer	WC260305B	7.00	-153.20	6/18/26 8:33
10.0 Buffer	WC260305C	10.00	-293.70	6/18/26 8:43
LCS/CCV (7.0 Buffer)	WC260305D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	6/18/26 8:49

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.01	6/18/26 8:50
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	6/18/26 8:50	25.3	6.98	1,409	0.97		
CCV-2-JC	CCV	6/18/26 11:31	25.2	6.95	1,448	0.99		

Comments:

Site Samping Event: FG DS Landfill
LIMS Workorder: 26060603
Technician(s): DC, JC, BG, AL, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 46864 Technician(s): A.Lampe Date: 6/17/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260305A	4	128.8	6/17/26 8:31
7.0 Buffer	WC260305B	7.00	-47.70	6/17/26 8:35
10.0 Buffer	WC260305C	10.00	-208.60	6/17/26 8:39
LCS/CCV (7.0 Buffer)	WC260305D	LCS/CCV (7.00		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	6/17/26 8:44

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.34	6/17/26 8:49
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-AL	LCS	6/17/26 8:56	19.5	7.07	1,410	0.34		
CCV-1-AL	CCV	6/17/26 10:24	19.5	7.00	1,426	0.87		

Comments:

Field Meter ID: Pine 46864 Technician(s): A.Lampe Date: 6/18/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260305A	4.00	126.70	6/18/26 8:39
7.0 Buffer	WC260305B	7.00	-49.80	6/18/26 8:41
10.0 Buffer	WC260305C	10.00	-214.10	6/18/26 8:45
LCS/CCV (7.0 Buffer)	WC260305D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	6/18/26 8:47

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.73	6/18/26 8:51
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-AL	LCS	6/18/26 8:52	22.7	7.08	1,411	0.73		
CCV-2-AL	CCV	6/18/26 12:01	22.7	7.05	1,409	0.98		

Comments:

July 08, 2026

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100467
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 26060602

Dear Eric Staley:

TEKLAB, INC received 1 sample on 6/18/2026 1:42:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26060602
Report Date: 08-Jul-26

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	8
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 26060602

Client Project: Ash Pond Monitoring Wells **Report Date:** 08-Jul-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
A	Total Coliform and/or E. Coli (Result) is absent
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
P	Total Coliform and/or E. Coli (Result) is present
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
S	Opinion for Colisure analysis is Satisfactory
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
T.O.P.	Top of Pump
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)
U	Opinion for Colisure analysis is Unsatisfactory

Client: City Water, Light & Power
Work Order: 26060602

Client Project: Ash Pond Monitoring Wells
Report Date: 08-Jul-26

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26060602
Report Date: 08-Jul-26

Cooler Receipt Temp: 18.7 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Alliance Technical Group. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville

Address 120 United Drive
Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 120 United Drive
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Client Project: Ash Pond Monitoring Wells

Work Order: 26060602

Report Date: 08-Jul-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100467	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2027	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2027	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2027	Collinsville
Illinois	IDPH	17584		5/31/2027	Collinsville
Iowa	IDNR	430		6/1/2028	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Louisiana	LDEQ	05003		6/30/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville

Client: City Water, Light & Power
Work Order: 26060602
Client Project: Ash Pond Monitoring Wells
Report Date: 08-Jul-26
Lab ID: 26060602-001
Client Sample ID: AP17
Matrix: GROUNDWATER
Collection Date: 06/18/2026 11:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.30**	ft	1	06/18/2026 11:54	R386232
Depth to water	*	-5.00		**25.64**	ft	1	06/18/2026 11:54	R386232
Depth to water from measuring point	*	0		**27.95**	ft	1	06/18/2026 11:54	R386232
Elevation of groundwater surface	*	0		**527.66**	ft	1	06/18/2026 11:54	R386232
Measuring Point Elevation	*	0		**555.61**	ft	1	06/18/2026 11:54	R386232
Measuring Point Height Above Land Surface	*	0		**2.31**	ft	1	06/18/2026 11:54	R386232
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.2**	NTU	1	06/18/2026 11:54	R386232
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**68.6**	°F	1	06/18/2026 11:54	R386232
SW-846 9040B								
pH, Field	*	1.00		**6.83**		1	06/18/2026 11:54	R386232
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**945**	µS/cm	1	06/18/2026 11:54	R386232
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**512**	mg/L	1	06/22/2026 9:17	R386246
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	06/20/2026 10:20	R386144
Chloride	NELAP	5.00		**16.7**	mg/L	10	06/20/2026 10:20	R386144
Sulfate	NELAP	10.0		**ND**	mg/L	10	06/20/2026 10:20	R386144
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**218**	µg/L	1	06/19/2026 16:59	258454
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	06/19/2026 16:59	258454
Boron	NELAP	20.0		**160**	µg/L	1	06/19/2026 16:59	258454
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	06/19/2026 16:59	258454
Calcium	NELAP	0.100		**103**	mg/L	1	06/19/2026 16:59	258454
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	06/19/2026 16:59	258454
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	06/19/2026 16:59	258454
Lead	NELAP	7.5		**< 7.5**	µg/L	1	06/19/2026 16:59	258454
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	06/19/2026 16:59	258454
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	06/24/2026 13:00	258454
Arsenic	NELAP	1.0		**6.2**	µg/L	5	06/24/2026 13:00	258454
Lithium	*	3.0		**7.9**	µg/L	5	06/27/2026 16:02	258454
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	06/24/2026 13:00	258454
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	06/24/2026 13:00	258454
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	06/24/2026 11:36	258478
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Combined 226/228 Uncertainty	*	0		**0.340**	+/-	1	07/02/2026 10:05	R387012
Radium-226	*	1.00		**ND**	pci/L	1	07/02/2026 10:05	R387012
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	07/02/2026 10:05	R387012
Radium-228	*	1.00		**ND**	pci/L	1	07/01/2026 12:46	R387012
Radium-228 Uncertainty	*	0		**0.270**	+/-	1	07/01/2026 12:46	R387012

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26060602
Report Date: 08-Jul-26

Carrier: Justin Colp

Received By: LEH

Completed by: Laura E Henson
On: 18-Jun-26

Reviewed by: Amber Dilallo
On: 18-Jun-26

Pages to follow: Chain of custody 1 Extra pages included 16

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	18.7
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #104524. -NO/ lhenson - 6/18/2026 2:08:05 PM

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 26060602

TEKLAB, INC. 120 United Drive - Collinsville, IL 62234 - Phone: (618) 344-1004

Client	City Water, Light & Power 1993		
Address	3100 Stevenson Drive		
	Springfield, IL 62712		
Contact	Eric Staley	**Phone**	(217) 757-8610
E-Mail	eric.staley@cwlp.com	**Fax**	(217) 757-8615

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 18.7 °C LTG# 9

Preserved in: ☐ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes: pH 10452 No 6/18/26

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No

Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☐ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

Client Comments Report QC LVL:___

*elevations, pH, conductivity, temperature

**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Mo Hg

Project Name/Number: Ash Pond Monitoring Wells

Sample Collector's Name: Justin Colp

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ___ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Groundwater	INDICATE ANALYSIS REQUESTED: Cl SO4 TDS F (T)	Field parameters*	Field Turbidity	Metals (T)**	Ra-226/228 Combined
26060602-001	AP17	6-18 1154	1	4	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	6-18-26 1342		6/18/26 1342

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder 111911

F5A59781A2
92B2B6B585
FC027EF3C5
B0B0DF01D5
F5DE06D695

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield IL
W.O. Number (s): 26060602
Monitoring Point: AP17
Sample ID: 001
Date (s): 6/18/2026

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 6/18/26 11:36 AM
Static Water Level: 27.95 feet below TOC
Total Depth: 60.31 feet below TOC
Water Column: 32.36 feet

Purging Activities

Purged By: PY Purge Date: 6/18/2026
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 32.36 ft. x 0.022 = 0.71 L x 3 Vol. = 2.13 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 2.50 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:35	0.0	131	purge start time						
11:39	0.5	↓	7.08	969.90	17.66	1.84	1.90	11.22	28.55
11:42	0.9		6.90	942.50	18.05	1.48	-16.70	8.40	28.60
11:45	1.3		6.83	935.60	18.64	1.43	-26.10	7.65	28.61
11:48	1.7		6.82	938.30	19.13	1.44	-29.90	7.28	28.61
11:51	2.1		6.82	940.90	19.63	1.44	-30.70	7.17	28.61
11:54	2.5		6.83	945.20	20.32	1.42	-30.10	7.18	28.61

Sampling Activities

Sampled By: PY Sample Date/Time: 6/18/2026 11:54
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.83 pH 945.20 Spec. Cond. 20.32 Temp
Field Filtered: No Filter Type:
Water Level: 28.72 feet below TOC Drawdown: 0.77 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 46864

Form Completed By: Allison Lampe Date: 6/18/2026

Site Samping Event: Ash Pond Mon Wells
LIMS Workorder: 26060602
Technician(s): DC, JC, BG, AL, PY

Field Calibration Log(s)
CWLP- 2Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 46864 Technician(s): A.Lampe Date: 6/18/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260305A	4.00	126.70	6/18/26 8:39
7.0 Buffer	WC260305B	7.00	-49.80	6/18/26 8:41
10.0 Buffer	WC260305C	10.00	-214.10	6/18/26 8:45
LCS/CCV (7.0 Buffer)	WC260305D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	110375	1412	6/18/26 8:47

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.73	6/18/26 8:51
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time
		131		6/23/26 10:28

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-AL	LCS	6/18/26 8:52	22.7	7.08	1,411	0.73		
CCV-2-AL	CCV	6/18/26 12:01	22.7	7.05	1,409	0.98		

Comments:

Alliance Technical Group - Akron
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TEL: (330) 253-8211
Website: http://www.settek.com

July 07, 2026

Shelly Hennessy
TEKLAB Inc,
120 United Drive
Collinsville, IL 62234
TEL:
FAX:

RE: 26060602

Dear Shelly Hennessy:

Order No.: 26061762

Alliance Technical Group - Akron received 1 sample(s) on 6/22/2026 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **26061762**
Date: **7/7/2026**

CLIENT: TEKLAB Inc,
Project: 26060602

WorkOrder Narrative:
26061762: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCS/LCSD-97614 Radium-228_DW(904.0): LCS/LCSD demonstrate high RPD. Both results are within acceptable criteria individually.

Original

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Workorder Sample Summary

WO#: **26061762**

07-Jul-26

CLIENT: TEKLAB Inc,
Project: 26060602

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
26061762-001	26060602-001		6/18/2026 11:54:00 AM	6/22/2026 10:45:00 AM	Non-Potable Water

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Analytical Report

(consolidated)

WO#: **26061762**

Date Reported: **7/7/2026**

CLIENT: TEKLAB Inc,

Collection Date: 6/18/2026 11:54:00 AM

Project: 26060602

Lab ID: 26061762-001

Matrix: NON-POTABLE WATER

Client Sample ID: 26060602-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.340	1	7/2/2026 10:05:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	7/2/2026 10:05:00 AM
Yield	1.00					1	7/2/2026 10:05:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.270	1	7/1/2026 12:46:00 PM
Yield	1.00					1	7/1/2026 12:46:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Qualifiers and Acronyms

WO#: **26061762**
Date: **7/7/2026**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
D	Manual integration in which peak was deleted.
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	A deviation from the method was performed; Please refer to the Case Narrative for additional information.

Acroynms

ND	Not Detected
QC	Quality Control
MB	Method Blank
LCS	Laboratory Control Sample
LCS	Laboratory Control Sample Duplicate
QCS	Quality Control Sample
DUP	Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Different
ICV	Initial Calibration Verification
ICB	Initial Calibration Blank
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blank
RLC	Reporting Limit Check
DF	Dilution Factor

RL	Reporting Limit
MDL	Method Detection Limit
LOD	Level of Detection
LOQ	Level of Quantitation
PQL	Practical Quantitation Limit
CRQL	Contract Required Quantitation Limit
PL	Permit Limit
RegLvl	Regulatory Limit
MCL	Maximum Contamination Limit
MinCL	Minimum Compound Limit
RA	Reanalysis
RE	Reextraction
TIC	Tentatively Identified Compound
RT	Retention Time
CF	Calibration Factor
RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Accreditation Program Analytes Report

WO#: **26061762**

07-Jul-26

Client: TEKLAB Inc,
State: IL
Project: 26060602
Program: Illinois EPA

Test Name	Matrix	Analyte	Status
Combined Radium (EPA903+904)	Non-Potable Water	Radium-226/Radium-228	N
Radium-226 (EPA 903.0)	Non-Potable Water	Radium-226	N
Radium-226 (EPA 903.0)	Non-Potable Water	Yield	N
Radium-228 (EPA 904.0)	Non-Potable Water	Radium-228	N
Radium-228 (EPA 904.0)	Non-Potable Water	Yield	N

Accreditation (Acc.) Status Key	
A: Accredited	N: Not Accredited
P: Provisional	U: Unavailable

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Website: http://www.settek.com

DATES REPORT

WO#: **26061762**

07-Jul-26

Client: TEKLAB Inc,

Project: 26060602

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26061762-001A	26060602-001	6/18/2026 11:54:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-226 (EPA 903.0)		6/25/2026 11:42:49 AM	7/2/2026 10:05:00 AM
				Radium-228 (EPA 904.0)		6/25/2026 11:42:49 AM	7/1/2026 12:46:00 PM

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26061762**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060602

BatchID: **97614**

Sample ID: **26061760-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290117**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.560			0	0			0.6500	14.9		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26061762**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060602 **BatchID:** **97614**

Sample ID: **MB-97614**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-97614**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.76	1.00	5.000	0	55.2	50	130				QLR
Yield	0.860			0	0						

Sample ID: **LCSD-97614**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.83	1.00	5.000	0	76.6	50	130	2.760	32.5	20	R
Yield	0.950			0	0			0.8600	9.94		

Sample ID: **26061756-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26061762**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060602 **BatchID:** **97614**

Sample ID: **26061756-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240693**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/1/2026**	SeqNo: **6290114**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	0.870			0	0			0.8600	1.16		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26061762**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060602 **BatchID:** **97614**

Sample ID: **26061760-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.630							0.6500	3.13	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26061762**

07-Jul-26

Client: TEKLAB Inc,
Project: 26060602 **BatchID:** **97614**

Sample ID: **MB-97614**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-97614**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.35	1.00	5.000	0	127	70	130				

Sample ID: **LCSD-97614**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290426**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.27	1.00	5.000	0	125	70	130	6.350	1.27	20	

Sample ID: **26061756-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/25/2026**	RunNo: **240703**
Client ID: **BatchQC**	Batch ID: **97614**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/2/2026**	SeqNo: **6290434**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.930							0.9500	2.13	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg ___ of ___

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

26061762

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: Sampler: Client QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = IL

Project# 26060602

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 41372 Phone: (618) 344-1004 x 1024

Temp: 21.3°C (21.2 / 21.1)

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Combined Radium			PH	CPH								
	26060602-001	6/18/26 1154	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	20								
			☐	☐	☐	☐	☐	Aqueous					2	34								
			☐	☐	☐	☐	☐	Aqueous					2	28								
			☐	☐	☐	☐	☐	Aqueous														
			☐	☐	☐	☐	☐	Aqueous														
			☐	☐	☐	☐	☐	Aqueous														
			☐	☐	☐	☐	☐	Aqueous														
			☐	☐	☐	☐	☐	Aqueous														
			☐	☐	☐	☐	☐	Aqueous														
			☐	☐	☐	☐	☐	Aqueous														
			☐	☐	☐	☐	☐	Aqueous														

*Relinquished By	Date/Time	Received By	Date/Time
	6/18/26 1700	Parson Gorich	6/22/26 10:45

Teklab maintains a strict policy of client confidentiality and as such does not provide client or sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

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Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **26061762** RcptNo: **1**

Logged by:	**Paige J. Yerick**	**6/22/2026 10:45:00 AM**	Paige Yerich
Completed By:	**Paige J. Yerick**	**6/23/2026 5:43:55 PM**	Paige Yerich
Reviewed By:	**Jennifer Woolf**	**6/23/2026 6:16:13 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑ NA ☐
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.3	Good	Not Present			

September 01, 2026

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100467
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 26071205

Dear Eric Staley:

TEKLAB, INC received 23 samples on 7/27/2026 3:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26071205
Report Date: 01-Sep-26

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	53
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
A	Total Coliform and/or E. Coli (Result) is absent
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
P	Total Coliform and/or E. Coli (Result) is present
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
S	Opinion for Colisure analysis is Satisfactory
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
T.O.P.	Top of Pump
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)
U	Opinion for Colisure analysis is Unsatisfactory

Client: City Water, Light & Power

Work Order: 26071205

Client Project: Ash Pond Monitoring Wells

Report Date: 01-Sep-26

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26071205
Report Date: 01-Sep-26

Cooler Receipt Temp: 24.1 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Alliance Technical Group. See attached report for results.

Locations

Collinsville

Address 120 United Drive
Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Work Order: 26071205

Client Project: Ash Pond Monitoring Wells

Report Date: 01-Sep-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100467	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2027	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2027	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2027	Collinsville
Illinois	IDPH	17584		5/31/2027	Collinsville
Iowa	IDNR	430		6/1/2028	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Louisiana	LDEQ	05003		6/30/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-001 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 07/24/2026 10:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	07/24/2026 10:38	R388347
Depth to water	*	-5.00		**7.06**	ft	1	07/24/2026 10:38	R388347
Depth to water from measuring point	*	0		**9.76**	ft	1	07/24/2026 10:38	R388347
Elevation of groundwater surface	*	0		**529.74**	ft	1	07/24/2026 10:38	R388347
Measuring Point Elevation	*	0		**539.50**	ft	1	07/24/2026 10:38	R388347
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	07/24/2026 10:38	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.9**	NTU	1	07/24/2026 10:38	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.4**	°F	1	07/24/2026 10:38	R388347
SW-846 9040B								
pH, Field	*	1.00		**7.04**		1	07/24/2026 10:38	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**801**	µmhos/cm @25C	1	07/24/2026 10:38	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**470**	mg/L	1	07/27/2026 9:12	R388126
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 17:32	R388053
Chloride	NELAP	5.00		**26.8**	mg/L	10	07/27/2026 17:32	R388053
Sulfate	NELAP	10.0		**ND**	mg/L	10	07/27/2026 17:32	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5	B	**168**	µg/L	1	07/27/2026 14:06	260103
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/27/2026 14:06	260103
Boron	NELAP	20.0		**155**	µg/L	1	07/27/2026 14:06	260103
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/27/2026 14:06	260103
Calcium	NELAP	0.100		**69.1**	mg/L	1	07/27/2026 14:06	260103
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:06	260103
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:06	260103
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/27/2026 14:06	260103
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/27/2026 14:06	260103
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:09	260103
Arsenic	NELAP	1.0		**119**	µg/L	5	08/01/2026 0:52	260103
Lithium	*	3.0		**8.6**	µg/L	5	07/29/2026 20:09	260103
Selenium	NELAP	1.0		**2.2**	µg/L	5	07/29/2026 20:09	260103
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 20:09	260103
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/28/2026 9:49	260142
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.620**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 07/24/2026 10:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.570**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-002 **Client Sample ID:** AP-1

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 11:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	07/27/2026 11:13	R388347
Depth to water	*	-5.00		**8.32**	ft	1	07/27/2026 11:13	R388347
Depth to water from measuring point	*	0		**10.59**	ft	1	07/27/2026 11:13	R388347
Elevation of groundwater surface	*	0		**524.78**	ft	1	07/27/2026 11:13	R388347
Measuring Point Elevation	*	0		**535.37**	ft	1	07/27/2026 11:13	R388347
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	07/27/2026 11:13	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.2**	NTU	1	07/27/2026 11:13	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.5**	°F	1	07/27/2026 11:13	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.68**		1	07/27/2026 11:13	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1870**	µmhos/cm @25C	1	07/27/2026 11:13	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1720**	mg/L	1	07/28/2026 9:21	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 15:53	R388408
Chloride	NELAP	5.00		**52.3**	mg/L	10	08/03/2026 15:53	R388408
Sulfate	NELAP	10.0		**941**	mg/L	10	08/03/2026 15:53	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**236**	µg/L	1	07/28/2026 16:22	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:22	260196
Boron	NELAP	200		**22400**	µg/L	10	07/29/2026 11:30	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:22	260196
Calcium	NELAP	0.100		**250**	mg/L	1	07/28/2026 16:22	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:22	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:22	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:22	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:22	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/24/2026 23:28	262347
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:29	260196
Lithium	*	3.0		**8.2**	µg/L	5	08/05/2026 16:57	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:29	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 19:29	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 11:52	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.740**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**1.31**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 07/27/2026 11:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.680**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-003 **Client Sample ID:** AP-2

Matrix: GROUNDWATER **Collection Date:** 07/24/2026 10:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	07/24/2026 10:43	R388347
Depth to water	*	-5.00		**5.19**	ft	1	07/24/2026 10:43	R388347
Depth to water from measuring point	*	0		**7.69**	ft	1	07/24/2026 10:43	R388347
Elevation of groundwater surface	*	0		**528.41**	ft	1	07/24/2026 10:43	R388347
Measuring Point Elevation	*	0		**536.10**	ft	1	07/24/2026 10:43	R388347
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	07/24/2026 10:43	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.6**	NTU	1	07/24/2026 10:43	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.2**	°F	1	07/24/2026 10:43	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.31**		1	07/24/2026 10:43	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1390**	µmhos/cm @25C	1	07/24/2026 10:43	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1200**	mg/L	1	07/27/2026 9:12	R388126
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 18:10	R388053
Chloride	NELAP	5.00		**34.9**	mg/L	10	07/27/2026 18:10	R388053
Sulfate	NELAP	10.0		**420**	mg/L	10	07/27/2026 18:10	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5	B	**66.3**	µg/L	1	07/27/2026 14:08	260103
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/27/2026 14:08	260103
Boron	NELAP	20.0		**3540**	µg/L	1	07/27/2026 14:08	260103
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/27/2026 14:08	260103
Calcium	NELAP	0.100		**195**	mg/L	1	07/27/2026 14:08	260103
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:08	260103
Cobalt	NELAP	5.0		**5.5**	µg/L	1	07/27/2026 14:08	260103
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/27/2026 14:08	260103
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/27/2026 14:08	260103
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:13	260103
Arsenic	NELAP	1.0		**1.2**	µg/L	5	08/01/2026 0:57	260103
Lithium	*	3.0		**7.8**	µg/L	5	07/29/2026 20:13	260103
Selenium	NELAP	1.0		**1.1**	µg/L	5	07/29/2026 20:13	260103
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 20:13	260103
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/28/2026 9:51	260142
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.550**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 07/24/2026 10:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.500**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-004 **Client Sample ID:** AP-3

Matrix: GROUNDWATER **Collection Date:** 07/24/2026 10:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	07/24/2026 10:08	R388347
Depth to water	*	-5.00		**7.06**	ft	1	07/24/2026 10:08	R388347
Depth to water from measuring point	*	0		**9.61**	ft	1	07/24/2026 10:08	R388347
Elevation of groundwater surface	*	0		**525.64**	ft	1	07/24/2026 10:08	R388347
Measuring Point Elevation	*	0		**535.25**	ft	1	07/24/2026 10:08	R388347
Measuring Point Height Above Land Surface	*	0		**2.55**	ft	1	07/24/2026 10:08	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.0**	NTU	1	07/24/2026 10:08	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.9**	°F	1	07/24/2026 10:08	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.34**		1	07/24/2026 10:08	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1400**	µmhos/cm @25C	1	07/24/2026 10:08	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1270**	mg/L	1	07/27/2026 9:12	R388126
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 18:23	R388053
Chloride	NELAP	5.00		**62.9**	mg/L	10	07/27/2026 18:23	R388053
Sulfate	NELAP	10.0		**572**	mg/L	10	07/27/2026 18:23	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5	B	**107**	µg/L	1	07/27/2026 14:09	260103
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/27/2026 14:09	260103
Boron	NELAP	20.0		**16000**	µg/L	1	07/27/2026 14:09	260103
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/27/2026 14:09	260103
Calcium	NELAP	0.100		**184**	mg/L	1	07/27/2026 14:09	260103
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:09	260103
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:09	260103
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/27/2026 14:09	260103
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/27/2026 14:09	260103
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:17	260103
Arsenic	NELAP	1.0		**13.6**	µg/L	5	08/01/2026 1:01	260103
Lithium	*	3.0		**7.3**	µg/L	5	07/29/2026 20:17	260103
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:17	260103
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 20:17	260103
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/28/2026 9:57	260142
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.610**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 07/24/2026 10:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.570**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-005 **Client Sample ID:** AP-4

Matrix: GROUNDWATER **Collection Date:** 07/24/2026 11:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.19**	ft	1	07/24/2026 11:35	R388347
Depth to water	*	-5.00		**6.97**	ft	1	07/24/2026 11:35	R388347
Depth to water from measuring point	*	0		**10.11**	ft	1	07/24/2026 11:35	R388347
Elevation of groundwater surface	*	0		**545.49**	ft	1	07/24/2026 11:35	R388347
Measuring Point Elevation	*	0		**555.60**	ft	1	07/24/2026 11:35	R388347
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	07/24/2026 11:35	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**27**	NTU	1	07/24/2026 11:35	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.1**	°F	1	07/24/2026 11:35	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	07/24/2026 11:35	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**455**	µmhos/cm @25C	1	07/24/2026 11:35	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**564**	mg/L	1	07/27/2026 9:13	R388126
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 18:35	R388053
Chloride	NELAP	5.00		**12.4**	mg/L	10	07/27/2026 18:35	R388053
Sulfate	NELAP	10.0		**ND**	mg/L	10	07/27/2026 18:35	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5	B	**380**	µg/L	1	07/27/2026 14:11	260103
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/27/2026 14:11	260103
Boron	NELAP	20.0		**84.4**	µg/L	1	07/27/2026 14:11	260103
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/27/2026 14:11	260103
Calcium	NELAP	0.100		**119**	mg/L	1	07/27/2026 14:11	260103
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:11	260103
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:11	260103
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/27/2026 14:11	260103
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/27/2026 14:11	260103
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:21	260103
Arsenic	NELAP	1.0		**22.0**	µg/L	5	08/01/2026 1:05	260103
Lithium	*	3.0		**8.6**	µg/L	5	07/29/2026 20:21	260103
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:21	260103
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 20:21	260103
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/28/2026 9:59	260142
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.620**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 07/24/2026 11:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.560**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-006 **Client Sample ID:** AP-5

Matrix: GROUNDWATER **Collection Date:** 07/24/2026 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	07/24/2026 10:19	R388347
Depth to water	*	-5.00		**11.66**	ft	1	07/24/2026 10:19	R388347
Depth to water from measuring point	*	0		**13.96**	ft	1	07/24/2026 10:19	R388347
Elevation of groundwater surface	*	0		**569.94**	ft	1	07/24/2026 10:19	R388347
Measuring Point Elevation	*	0		**583.90**	ft	1	07/24/2026 10:19	R388347
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	07/24/2026 10:19	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**29**	NTU	1	07/24/2026 10:19	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.1**	°F	1	07/24/2026 10:19	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.75**		1	07/24/2026 10:19	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**449**	µmhos/cm @25C	1	07/24/2026 10:19	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**558**	mg/L	1	07/27/2026 9:22	R388126
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 18:48	R388053
Chloride	NELAP	5.00		**7.16**	mg/L	10	07/27/2026 18:48	R388053
Sulfate	NELAP	10.0		**74.4**	mg/L	10	07/27/2026 18:48	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5	B	**57.8**	µg/L	1	07/27/2026 14:13	260103
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/27/2026 14:13	260103
Boron	NELAP	20.0		**36.3**	µg/L	1	07/27/2026 14:13	260103
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/27/2026 14:13	260103
Calcium	NELAP	0.100		**108**	mg/L	1	07/27/2026 14:13	260103
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:13	260103
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:13	260103
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/27/2026 14:13	260103
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/27/2026 14:13	260103
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:26	260103
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/01/2026 1:30	260103
Lithium	*	3.0		**6.0**	µg/L	5	07/29/2026 20:26	260103
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:26	260103
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 20:26	260103
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/28/2026 10:07	260142
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.530**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.030**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 07/24/2026 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.500**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-007 **Client Sample ID:** AP-6

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 11:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	07/27/2026 11:47	R388347
Depth to water	*	-5.00		**5.85**	ft	1	07/27/2026 11:47	R388347
Depth to water from measuring point	*	0		**8.27**	ft	1	07/27/2026 11:47	R388347
Elevation of groundwater surface	*	0		**529.55**	ft	1	07/27/2026 11:47	R388347
Measuring Point Elevation	*	0		**537.82**	ft	1	07/27/2026 11:47	R388347
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	07/27/2026 11:47	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.1**	NTU	1	07/27/2026 11:47	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.5**	°F	1	07/27/2026 11:47	R388347
SW-846 9040B								
pH, Field	*	1.00		**7.23**		1	07/27/2026 11:47	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**718**	µmhos/cm @25C	1	07/27/2026 11:47	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**446**	mg/L	1	07/28/2026 9:21	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**0.63**	mg/L	10	08/03/2026 16:06	R388408
Chloride	NELAP	5.00		**37.8**	mg/L	10	08/03/2026 16:06	R388408
Sulfate	NELAP	10.0		**ND**	mg/L	10	08/03/2026 16:06	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**166**	µg/L	1	07/28/2026 16:22	260196
Beryllium	NELAP	0.5		**0.6**	µg/L	1	07/28/2026 16:22	260196
Boron	NELAP	20.0		**276**	µg/L	1	07/28/2026 16:22	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:22	260196
Calcium	NELAP	0.100		**70.4**	mg/L	1	07/28/2026 16:22	260196
Chromium	NELAP	5.0		**12.0**	µg/L	1	07/28/2026 16:22	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:22	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:22	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:22	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/24/2026 23:32	262347
Arsenic	NELAP	1.0		**10.4**	µg/L	5	08/03/2026 19:33	260196
Lithium	*	3.0		**5.5**	µg/L	5	08/03/2026 19:33	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:33	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 19:33	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 11:54	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.610**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 07/27/2026 11:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.560**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-008 **Client Sample ID:** AP-7

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 13:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	07/27/2026 13:43	R388347
Depth to water	*	-5.00		**8.90**	ft	1	07/27/2026 13:43	R388347
Depth to water from measuring point	*	0		**11.56**	ft	1	07/27/2026 13:43	R388347
Elevation of groundwater surface	*	0		**527.46**	ft	1	07/27/2026 13:43	R388347
Measuring Point Elevation	*	0		**539.02**	ft	1	07/27/2026 13:43	R388347
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	07/27/2026 13:43	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.1**	NTU	1	07/27/2026 13:43	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.8**	°F	1	07/27/2026 13:43	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.97**		1	07/27/2026 13:43	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**366**	µmhos/cm @25C	1	07/27/2026 13:43	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**418**	mg/L	1	07/28/2026 9:38	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 16:18	R388408
Chloride	NELAP	5.00		**43.5**	mg/L	10	08/03/2026 16:18	R388408
Sulfate	NELAP	10.0		**22.9**	mg/L	10	08/03/2026 16:18	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**134**	µg/L	1	07/28/2026 16:23	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:23	260196
Boron	NELAP	20.0		**276**	µg/L	1	07/28/2026 16:23	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:23	260196
Calcium	NELAP	0.100		**65.3**	mg/L	1	07/28/2026 16:23	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:23	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:23	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:23	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:23	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**1.0**	µg/L	5	08/24/2026 23:37	262347
Arsenic	NELAP	1.0		**52.1**	µg/L	5	08/03/2026 19:37	260196
Lithium	*	3.0		**6.7**	µg/L	5	08/05/2026 17:05	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:37	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 19:37	260196
MBLK has detectable levels above the RL for Sb. Results may be biased high by the detectable levels in the MBLK.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:00	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.890**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**1.46**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 07/27/2026 13:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.830**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-009 **Client Sample ID:** AP-8

Matrix: GROUNDWATER **Collection Date:** 07/22/2026 12:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	07/22/2026 12:01	R388347
Depth to water	*	-5.00		**2.53**	ft	1	07/22/2026 12:01	R388347
Depth to water from measuring point	*	0		**5.43**	ft	1	07/22/2026 12:01	R388347
Elevation of groundwater surface	*	0		**531.77**	ft	1	07/22/2026 12:01	R388347
Measuring Point Elevation	*	0		**537.20**	ft	1	07/22/2026 12:01	R388347
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	07/22/2026 12:01	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.1**	NTU	1	07/22/2026 12:01	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.7**	°F	1	07/22/2026 12:01	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.95**		1	07/22/2026 12:01	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1020**	µmhos/cm @25C	1	07/22/2026 12:01	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**576**	mg/L	1	07/23/2026 13:35	R387989
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 16:31	R388408
Chloride	NELAP	5.00		**24.1**	mg/L	10	08/03/2026 16:31	R388408
Sulfate	NELAP	10.0		**ND**	mg/L	10	08/03/2026 16:31	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**409**	µg/L	1	07/28/2026 18:09	260025
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 18:09	260025
Boron	NELAP	20.0		**87.0**	µg/L	1	07/28/2026 18:09	260025
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/29/2026 16:12	260025
Calcium	NELAP	1.00		**102**	mg/L	10	07/30/2026 20:33	260025
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 18:09	260025
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 18:09	260025
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 18:09	260025
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 18:09	260025
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 21:54	260025
Arsenic	NELAP	1.0		**46.2**	µg/L	5	07/31/2026 23:53	260025
Lithium	*	3.0		**7.4**	µg/L	5	07/30/2026 17:27	260025
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 21:54	260025
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 21:54	260025
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/23/2026 10:21	260026
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.860**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.100**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**1.33**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 07/22/2026 12:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.760**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-010 **Client Sample ID:** AP-9

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 11:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.70**	ft	1	07/27/2026 11:00	R388347
Depth to water	*	-5.00		**10.03**	ft	1	07/27/2026 11:00	R388347
Depth to water from measuring point	*	0		**13.13**	ft	1	07/27/2026 11:00	R388347
Elevation of groundwater surface	*	0		**527.17**	ft	1	07/27/2026 11:00	R388347
Measuring Point Elevation	*	0		**540.30**	ft	1	07/27/2026 11:00	R388347
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	07/27/2026 11:00	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**48**	NTU	1	07/27/2026 11:00	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.2**	°F	1	07/27/2026 11:00	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.68**		1	07/27/2026 11:00	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**621**	µmhos/cm @25C	1	07/27/2026 11:00	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**616**	mg/L	1	07/28/2026 9:38	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 16:44	R388408
Chloride	NELAP	5.00		**31.5**	mg/L	10	08/03/2026 16:44	R388408
Sulfate	NELAP	10.0		**21.2**	mg/L	10	08/03/2026 16:44	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**411**	µg/L	1	07/28/2026 16:24	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:24	260196
Boron	NELAP	20.0		**100**	µg/L	1	07/28/2026 16:24	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:24	260196
Calcium	NELAP	0.100		**110**	mg/L	1	07/28/2026 16:24	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:24	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:24	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:24	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:24	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/24/2026 23:41	262347
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:40	260196
Lithium	*	3.0		**5.0**	µg/L	5	08/05/2026 17:32	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:40	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 19:40	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:02	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.660**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-010
Client Sample ID: AP-9
Matrix: GROUNDWATER
Collection Date: 07/27/2026 11:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.610**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-011 **Client Sample ID:** AP10

Matrix: GROUNDWATER **Collection Date:** 07/23/2026 13:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	07/23/2026 13:36	R388347
Depth to water	*	-5.00		**1.03**	ft	1	07/23/2026 13:36	R388347
Depth to water from measuring point	*	0		**4.13**	ft	1	07/23/2026 13:36	R388347
Elevation of groundwater surface	*	0		**533.37**	ft	1	07/23/2026 13:36	R388347
Measuring Point Elevation	*	0		**537.50**	ft	1	07/23/2026 13:36	R388347
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	07/23/2026 13:36	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.6**	NTU	1	07/23/2026 13:36	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.4**	°F	1	07/23/2026 13:36	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	07/23/2026 13:36	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1310**	µmhos/cm @25C	1	07/23/2026 13:36	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**838**	mg/L	1	07/24/2026 10:33	R388043
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 19:01	R388053
Chloride	NELAP	5.00		**25.3**	mg/L	10	07/27/2026 19:01	R388053
Sulfate	NELAP	10.0		**91.3**	mg/L	10	07/27/2026 19:01	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5	B	**569**	µg/L	1	07/27/2026 16:54	260103
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/27/2026 16:54	260103
Boron	NELAP	20.0		**3540**	µg/L	1	07/27/2026 16:54	260103
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/27/2026 16:54	260103
Calcium	NELAP	0.100	S	**132**	mg/L	1	07/27/2026 16:54	260103
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 16:54	260103
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 16:54	260103
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/27/2026 16:54	260103
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/27/2026 16:54	260103
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:30	260103
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/01/2026 1:34	260103
Lithium	*	3.0		**9.7**	µg/L	5	07/29/2026 20:30	260103
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 20:30	260103
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 20:30	260103
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/27/2026 9:24	260102
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.720**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	08/13/2026 7:39	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-011
Client Sample ID: AP10
Matrix: GROUNDWATER
Collection Date: 07/23/2026 13:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**1.10**	pci/L	1	08/12/2026 13:15	R389888
Radium-228 Uncertainty	*	0		**0.650**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-012 **Client Sample ID:** AP11

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 12:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.15**	ft	1	07/27/2026 12:15	R388347
Depth to water	*	-5.00		**12.22**	ft	1	07/27/2026 12:15	R388347
Depth to water from measuring point	*	0		**15.02**	ft	1	07/27/2026 12:15	R388347
Elevation of groundwater surface	*	0		**523.08**	ft	1	07/27/2026 12:15	R388347
Measuring Point Elevation	*	0		**538.10**	ft	1	07/27/2026 12:15	R388347
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	07/27/2026 12:15	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.9**	NTU	1	07/27/2026 12:15	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.7**	°F	1	07/27/2026 12:15	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	07/27/2026 12:15	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1280**	µmhos/cm @25C	1	07/27/2026 12:15	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**892**	mg/L	1	07/28/2026 9:39	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 17:22	R388408
Chloride	NELAP	5.00		**146**	mg/L	10	08/03/2026 17:22	R388408
Sulfate	NELAP	10.0		**91.1**	mg/L	10	08/03/2026 17:22	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**153**	µg/L	1	07/28/2026 16:25	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:25	260196
Boron	NELAP	20.0		**277**	µg/L	1	07/28/2026 16:25	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:25	260196
Calcium	NELAP	0.100		**151**	mg/L	1	07/28/2026 16:25	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:25	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:25	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:25	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:25	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/25/2026 0:22	262347
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:44	260196
Lithium	*	3.0		**3.4**	µg/L	5	08/05/2026 17:36	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:44	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 19:44	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:04	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.510**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.030**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-012
Client Sample ID: AP11
Matrix: GROUNDWATER
Collection Date: 07/27/2026 12:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.480**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-013 **Client Sample ID:** AP12

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**510.30**	ft	1	07/27/2026 10:50	R388347
Depth to water	*	-5.00		**14.64**	ft	1	07/27/2026 10:50	R388347
Depth to water from measuring point	*	0		**17.54**	ft	1	07/27/2026 10:50	R388347
Elevation of groundwater surface	*	0		**523.16**	ft	1	07/27/2026 10:50	R388347
Measuring Point Elevation	*	0		**540.70**	ft	1	07/27/2026 10:50	R388347
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	07/27/2026 10:50	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.5**	NTU	1	07/27/2026 10:50	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.9**	°F	1	07/27/2026 10:50	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.45**		1	07/27/2026 10:50	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1510**	µmhos/cm @25C	1	07/27/2026 10:50	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1120**	mg/L	1	07/28/2026 9:39	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 18:12	R388408
Chloride	NELAP	5.00		**113**	mg/L	10	08/03/2026 18:12	R388408
Sulfate	NELAP	10.0		**378**	mg/L	10	08/03/2026 18:12	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**75.5**	µg/L	1	07/28/2026 16:25	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:25	260196
Boron	NELAP	20.0		**24.8**	µg/L	1	07/28/2026 16:25	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:25	260196
Calcium	NELAP	0.100		**181**	mg/L	1	07/28/2026 16:25	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:25	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:25	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:25	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:25	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/25/2026 0:39	262347
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:48	260196
Lithium	*	3.0		**4.2**	µg/L	5	08/05/2026 17:40	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 19:48	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 19:48	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:06	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.620**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-013
Client Sample ID: AP12
Matrix: GROUNDWATER
Collection Date: 07/27/2026 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.570**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-014 **Client Sample ID:** AP13

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.00**	ft	1	07/27/2026 10:15	R388347
Depth to water	*	-5.00		**13.95**	ft	1	07/27/2026 10:15	R388347
Depth to water from measuring point	*	0		**17.35**	ft	1	07/27/2026 10:15	R388347
Elevation of groundwater surface	*	0		**524.65**	ft	1	07/27/2026 10:15	R388347
Measuring Point Elevation	*	0		**542.00**	ft	1	07/27/2026 10:15	R388347
Measuring Point Height Above Land Surface	*	0		**3.40**	ft	1	07/27/2026 10:15	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.9**	NTU	1	07/27/2026 10:15	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**65.5**	°F	1	07/27/2026 10:15	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.63**		1	07/27/2026 10:15	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**861**	µmhos/cm @25C	1	07/27/2026 10:15	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**556**	mg/L	1	07/28/2026 9:51	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 18:25	R388408
Chloride	NELAP	5.00		**27.4**	mg/L	10	08/03/2026 18:25	R388408
Sulfate	NELAP	10.0		**114**	mg/L	10	08/03/2026 18:25	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**126**	µg/L	1	07/28/2026 16:30	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:30	260196
Boron	NELAP	20.0		**38.5**	µg/L	1	07/28/2026 16:30	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:30	260196
Calcium	NELAP	0.100		**108**	mg/L	1	07/28/2026 16:30	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:30	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:30	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:30	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:30	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/25/2026 0:43	262347
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 20:15	260196
Lithium	*	3.0		**8.6**	µg/L	5	08/05/2026 17:44	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 20:15	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 20:15	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:13	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.580**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-014
Client Sample ID: AP13
Matrix: GROUNDWATER
Collection Date: 07/27/2026 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.540**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-015 **Client Sample ID:** AP14

Matrix: GROUNDWATER **Collection Date:** 07/23/2026 9:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	07/23/2026 9:53	R388347
Depth to water	*	-5.00		**-0.60**	ft	1	07/23/2026 9:53	R388347
Depth to water from measuring point	*	0		**2.20**	ft	1	07/23/2026 9:53	R388347
Elevation of groundwater surface	*	0		**537.40**	ft	1	07/23/2026 9:53	R388347
Measuring Point Elevation	*	0		**539.60**	ft	1	07/23/2026 9:53	R388347
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	07/23/2026 9:53	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.6**	NTU	1	07/23/2026 9:53	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.8**	°F	1	07/23/2026 9:53	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.87**		1	07/23/2026 9:53	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2220**	µmhos/cm @25C	1	07/23/2026 9:53	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**2050**	mg/L	1	07/24/2026 10:33	R388043
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 19:13	R388053
Chloride	NELAP	5.00		**126**	mg/L	10	07/27/2026 19:13	R388053
Sulfate	NELAP	10.0		**1070**	mg/L	10	07/27/2026 19:13	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5	B	**46.2**	µg/L	1	07/27/2026 14:14	260103
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/27/2026 14:14	260103
Boron	NELAP	200		**23600**	µg/L	10	07/29/2026 20:03	260103
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/27/2026 14:14	260103
Calcium	NELAP	0.100		**295**	mg/L	1	07/27/2026 14:14	260103
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:14	260103
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:14	260103
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/27/2026 14:14	260103
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/27/2026 14:14	260103
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 21:07	260103
Arsenic	NELAP	1.0		**1.4**	µg/L	5	08/01/2026 1:51	260103
Lithium	*	3.0		**9.9**	µg/L	5	07/29/2026 21:07	260103
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 21:07	260103
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 21:07	260103
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/27/2026 9:26	260102
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.670**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-015
Client Sample ID: AP14
Matrix: GROUNDWATER
Collection Date: 07/23/2026 9:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.630**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-016 **Client Sample ID:** T-01

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 12:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**512.70**	ft	1	07/27/2026 12:57	R388347
Depth to water	*	-5.00		**13.12**	ft	1	07/27/2026 12:57	R388347
Depth to water from measuring point	*	0		**13.45**	ft	1	07/27/2026 12:57	R388347
Elevation of groundwater surface	*	0		**522.20**	ft	1	07/27/2026 12:57	R388347
Measuring Point Elevation	*	0		**535.65**	ft	1	07/27/2026 12:57	R388347
Measuring Point Height Above Land Surface	*	0		**0.33**	ft	1	07/27/2026 12:57	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.0**	NTU	1	07/27/2026 12:57	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.9**	°F	1	07/27/2026 12:57	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	07/27/2026 12:57	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1420**	µmhos/cm @25C	1	07/27/2026 12:57	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**934**	mg/L	1	07/28/2026 9:51	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 18:38	R388408
Chloride	NELAP	5.00		**212**	mg/L	10	08/03/2026 18:38	R388408
Sulfate	NELAP	10.0		**123**	mg/L	10	08/03/2026 18:38	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**73.8**	µg/L	1	07/28/2026 16:30	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:30	260196
Boron	NELAP	20.0		**212**	µg/L	1	07/28/2026 16:30	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:30	260196
Calcium	NELAP	0.100		**134**	mg/L	1	07/28/2026 16:30	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:30	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:30	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:30	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:30	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/25/2026 0:47	262347
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 20:19	260196
Lithium	*	3.0		**11.4**	µg/L	5	08/05/2026 17:47	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 20:19	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 20:19	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:15	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.530**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/13/2026 7:39	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-016
Client Sample ID: T-01
Matrix: GROUNDWATER
Collection Date: 07/27/2026 12:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.480**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-017 **Client Sample ID:** T-02

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 11:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.18**	ft	1	07/27/2026 11:30	R388347
Depth to water	*	-5.00		**22.29**	ft	1	07/27/2026 11:30	R388347
Depth to water from measuring point	*	0		**24.69**	ft	1	07/27/2026 11:30	R388347
Elevation of groundwater surface	*	0		**524.93**	ft	1	07/27/2026 11:30	R388347
Measuring Point Elevation	*	0		**549.62**	ft	1	07/27/2026 11:30	R388347
Measuring Point Height Above Land Surface	*	0		**2.40**	ft	1	07/27/2026 11:30	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.2**	NTU	1	07/27/2026 11:30	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.2**	°F	1	07/27/2026 11:30	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	07/27/2026 11:30	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2190**	µmhos/cm @25C	1	07/27/2026 11:30	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1420**	mg/L	1	07/28/2026 9:51	R388191
Stable weight could not be achieved after multiple cycles of drying, cooling, and weighing. Final weight is reported.								
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 18:50	R388408
Chloride	NELAP	5.00		**556**	mg/L	10	08/03/2026 18:50	R388408
Sulfate	NELAP	10.0		**145**	mg/L	10	08/03/2026 18:50	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**240**	µg/L	1	07/28/2026 16:31	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:31	260196
Boron	NELAP	20.0		**52.1**	µg/L	1	07/28/2026 16:31	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:31	260196
Calcium	NELAP	0.100		**251**	mg/L	1	07/28/2026 16:31	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:31	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:31	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:31	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:31	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/25/2026 0:51	262347
Arsenic	NELAP	1.0		**4.0**	µg/L	5	08/03/2026 20:23	260196
Lithium	*	3.0		**31.0**	µg/L	5	08/05/2026 17:51	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 20:23	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 20:23	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:17	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**2.23**	pci/L	1	08/13/2026 7:39	R389888
Combined 226/228 Uncertainty	*	0		**0.840**	+/-	1	08/13/2026 7:39	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389888
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	08/13/2026 7:39	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-017
Client Sample ID: T-02
Matrix: GROUNDWATER
Collection Date: 07/27/2026 11:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**2.23**	pci/L	1	08/12/2026 13:15	R389888
Radium-228 Uncertainty	*	0		**0.780**	+/-	1	08/12/2026 13:15	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-018 **Client Sample ID:** T-04

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 12:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**521.52**	ft	1	07/27/2026 12:24	R388347
Depth to water	*	-5.00		**14.37**	ft	1	07/27/2026 12:24	R388347
Depth to water from measuring point	*	0		**16.75**	ft	1	07/27/2026 12:24	R388347
Elevation of groundwater surface	*	0		**532.19**	ft	1	07/27/2026 12:24	R388347
Measuring Point Elevation	*	0		**548.94**	ft	1	07/27/2026 12:24	R388347
Measuring Point Height Above Land Surface	*	0		**2.38**	ft	1	07/27/2026 12:24	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**57**	NTU	1	07/27/2026 12:24	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**67.4**	°F	1	07/27/2026 12:24	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.49**		1	07/27/2026 12:24	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**369**	µmhos/cm @25C	1	07/27/2026 12:24	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**348**	mg/L	1	07/28/2026 9:51	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 19:03	R388408
Chloride	NELAP	5.00		**ND**	mg/L	10	08/03/2026 19:03	R388408
Sulfate	NELAP	10.0		**89.5**	mg/L	10	08/03/2026 19:03	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**42.0**	µg/L	1	07/28/2026 16:32	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:32	260196
Boron	NELAP	20.0		**55.9**	µg/L	1	07/28/2026 16:32	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:32	260196
Calcium	NELAP	0.100		**69.4**	mg/L	1	07/28/2026 16:32	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:32	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:32	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:32	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:32	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/25/2026 0:55	262347
Arsenic	NELAP	1.0		**3.9**	µg/L	5	08/03/2026 20:27	260196
Lithium	*	3.0		**10.0**	µg/L	5	08/03/2026 20:27	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 20:27	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 20:27	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:19	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/15/2026 9:57	R389888
Combined 226/228 Uncertainty	*	0		**0.690**	+/-	1	08/15/2026 9:57	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/15/2026 9:57	R389888
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/15/2026 9:57	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/14/2026 13:33	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-018
Client Sample ID: T-04
Matrix: GROUNDWATER
Collection Date: 07/27/2026 12:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.640**	+/-	1	08/14/2026 13:33	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-019 **Client Sample ID:** T-05

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 13:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**518.32**	ft	1	07/27/2026 13:06	R388347
Depth to water	*	-5.00		**5.54**	ft	1	07/27/2026 13:06	R388347
Depth to water from measuring point	*	0		**8.05**	ft	1	07/27/2026 13:06	R388347
Elevation of groundwater surface	*	0		**532.61**	ft	1	07/27/2026 13:06	R388347
Measuring Point Elevation	*	0		**540.66**	ft	1	07/27/2026 13:06	R388347
Measuring Point Height Above Land Surface	*	0		**2.51**	ft	1	07/27/2026 13:06	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.7**	NTU	1	07/27/2026 13:06	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**74.6**	°F	1	07/27/2026 13:06	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.61**		1	07/27/2026 13:06	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**360**	µmhos/cm @25C	1	07/27/2026 13:06	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**342**	mg/L	1	07/28/2026 9:51	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 19:16	R388408
Chloride	NELAP	5.00		**ND**	mg/L	10	08/03/2026 19:16	R388408
Sulfate	NELAP	10.0		**35.4**	mg/L	10	08/03/2026 19:16	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**55.5**	µg/L	1	07/28/2026 16:33	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:33	260196
Boron	NELAP	20.0		**90.6**	µg/L	1	07/28/2026 16:33	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:33	260196
Calcium	NELAP	0.100		**65.2**	mg/L	1	07/28/2026 16:33	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:33	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:33	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:33	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:33	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/25/2026 1:03	262347
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 20:31	260196
Lithium	*	3.0		**6.4**	µg/L	5	08/05/2026 17:59	260196
Selenium	NELAP	1.0		**1.4**	µg/L	5	08/03/2026 20:31	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 20:31	260196
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:21	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/15/2026 9:57	R389888
Combined 226/228 Uncertainty	*	0		**0.850**	+/-	1	08/15/2026 9:57	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/15/2026 9:57	R389888
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	08/15/2026 9:57	R389888
Radium-228	*	1.00		**1.87**	pci/L	1	08/14/2026 13:33	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-019
Client Sample ID: T-05
Matrix: GROUNDWATER
Collection Date: 07/27/2026 13:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.810**	+/-	1	08/14/2026 13:33	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-020 **Client Sample ID:** T-06

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 13:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.66**	ft	1	07/27/2026 13:28	R388347
Depth to water	*	-5.00		**6.35**	ft	1	07/27/2026 13:28	R388347
Depth to water from measuring point	*	0		**8.71**	ft	1	07/27/2026 13:28	R388347
Elevation of groundwater surface	*	0		**529.61**	ft	1	07/27/2026 13:28	R388347
Measuring Point Elevation	*	0		**538.32**	ft	1	07/27/2026 13:28	R388347
Measuring Point Height Above Land Surface	*	0		**2.36**	ft	1	07/27/2026 13:28	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.7**	NTU	1	07/27/2026 13:28	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**72.5**	°F	1	07/27/2026 13:28	R388347
SW-846 9040B								
pH, Field	*	1.00		**7.17**		1	07/27/2026 13:28	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**736**	µmhos/cm @25C	1	07/27/2026 13:28	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**404**	mg/L	1	07/28/2026 9:51	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 19:28	R388408
Chloride	NELAP	5.00		**8.75**	mg/L	10	08/03/2026 19:28	R388408
Sulfate	NELAP	10.0		**ND**	mg/L	10	08/03/2026 19:28	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**102**	µg/L	1	07/28/2026 16:33	260196
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 16:33	260196
Boron	NELAP	20.0		**37.2**	µg/L	1	07/28/2026 16:33	260196
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/28/2026 16:33	260196
Calcium	NELAP	0.100		**90.2**	mg/L	1	07/28/2026 16:33	260196
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:33	260196
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 16:33	260196
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 16:33	260196
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 16:33	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0	B	**< 1.0**	µg/L	5	08/25/2026 1:08	262347
Arsenic	NELAP	1.0		**11.5**	µg/L	5	08/03/2026 20:35	260196
Lithium	*	3.0		**3.9**	µg/L	5	08/05/2026 18:03	260196
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	08/03/2026 20:35	260196
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	08/03/2026 20:35	260196
MBLK surrogates are outside of control limits.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/30/2026 12:23	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/25/2026 9:44	R389888
Combined 226/228 Uncertainty	*	0		**0.770**	+/-	1	08/25/2026 9:44	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/15/2026 9:57	R389888
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/15/2026 9:57	R389888
Radium-228	*	1.00		**ND**	pci/L	1	08/24/2026 14:05	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-020
Client Sample ID: T-06
Matrix: GROUNDWATER
Collection Date: 07/27/2026 13:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.720**	+/-	1	08/24/2026 14:05	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-021 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 07/22/2026 10:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	07/22/2026 10:05	R388347
Depth to water	*	-5.00		**10.53**	ft	1	07/22/2026 10:05	R388347
Depth to water from measuring point	*	0		**13.28**	ft	1	07/22/2026 10:05	R388347
Elevation of groundwater surface	*	0		**542.32**	ft	1	07/22/2026 10:05	R388347
Measuring Point Elevation	*	0		**555.60**	ft	1	07/22/2026 10:05	R388347
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	07/22/2026 10:05	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**33**	NTU	1	07/22/2026 10:05	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.1**	°F	1	07/22/2026 10:05	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.63**		1	07/22/2026 10:05	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1570**	µmhos/cm @25C	1	07/22/2026 10:05	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1250**	mg/L	1	07/23/2026 13:35	R387989
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 19:41	R388408
Chloride	NELAP	5.00		**39.1**	mg/L	10	08/03/2026 19:41	R388408
Sulfate	NELAP	10.0		**424**	mg/L	10	08/03/2026 19:41	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**120**	µg/L	1	07/28/2026 18:11	260025
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 18:11	260025
Boron	NELAP	20.0		**9570**	µg/L	1	07/28/2026 18:11	260025
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/29/2026 16:14	260025
Calcium	NELAP	1.00		**208**	mg/L	10	07/30/2026 20:34	260025
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 18:11	260025
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 18:11	260025
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 18:11	260025
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 18:11	260025
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 22:44	260025
Arsenic	NELAP	1.0		**81.3**	µg/L	5	08/01/2026 0:19	260025
Lithium	*	3.0		**9.9**	µg/L	5	07/30/2026 17:54	260025
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 22:44	260025
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 22:44	260025
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/23/2026 10:23	260026
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/15/2026 9:57	R389888
Combined 226/228 Uncertainty	*	0		**0.750**	+/-	1	08/15/2026 9:57	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/15/2026 9:57	R389888
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/15/2026 9:57	R389888
Radium-228	*	1.00		**1.12**	pci/L	1	08/14/2026 13:33	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-021
Client Sample ID: AW-1
Matrix: GROUNDWATER
Collection Date: 07/22/2026 10:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.700**	+/-	1	08/14/2026 13:33	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-022 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 07/22/2026 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	07/22/2026 10:50	R388347
Depth to water	*	-5.00		**15.38**	ft	1	07/22/2026 10:50	R388347
Depth to water from measuring point	*	0		**15.38**	ft	1	07/22/2026 10:50	R388347
Elevation of groundwater surface	*	0		**537.72**	ft	1	07/22/2026 10:50	R388347
Measuring Point Elevation	*	0		**553.10**	ft	1	07/22/2026 10:50	R388347
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	07/22/2026 10:50	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**62**	NTU	1	07/22/2026 10:50	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.9**	°F	1	07/22/2026 10:50	R388347
SW-846 9040B								
pH, Field	*	1.00		**6.85**		1	07/22/2026 10:50	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1840**	µmhos/cm @25C	1	07/22/2026 10:50	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1550**	mg/L	1	07/23/2026 13:51	R387989
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 19:54	R388408
Chloride	NELAP	5.00		**37.9**	mg/L	10	08/03/2026 19:54	R388408
Sulfate	NELAP	10.0		**605**	mg/L	10	08/03/2026 19:54	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5		**103**	µg/L	1	07/28/2026 18:12	260025
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/28/2026 18:12	260025
Boron	NELAP	20.0		**7930**	µg/L	1	07/28/2026 18:12	260025
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/29/2026 16:15	260025
Calcium	NELAP	1.00		**265**	mg/L	10	07/30/2026 20:36	260025
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 18:12	260025
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/28/2026 18:12	260025
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/28/2026 18:12	260025
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/28/2026 18:12	260025
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 22:49	260025
Arsenic	NELAP	1.0		**< 1.0**	µg/L	5	08/01/2026 0:23	260025
Lithium	*	3.0		**7.1**	µg/L	5	07/30/2026 17:58	260025
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	07/30/2026 17:58	260025
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 22:49	260025
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/23/2026 10:25	260026
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**3.10**	pci/L	1	08/15/2026 9:57	R389888
Combined 226/228 Uncertainty	*	0		**1.16**	+/-	1	08/15/2026 9:57	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/15/2026 9:57	R389888
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	08/15/2026 9:57	R389888
Radium-228	*	1.00		**3.10**	pci/L	1	08/14/2026 13:33	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-022
Client Sample ID: G120
Matrix: GROUNDWATER
Collection Date: 07/22/2026 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**1.12**	+/-	1	08/14/2026 13:33	R389888

Client: City Water, Light & Power **Work Order:** 26071205

Client Project: Ash Pond Monitoring Wells **Report Date:** 01-Sep-26

Lab ID: 26071205-023 **Client Sample ID:** AP17

Matrix: GROUNDWATER **Collection Date:** 07/23/2026 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.31**	ft	1	07/23/2026 12:12	R388347
Depth to water	*	-5.00		**25.27**	ft	1	07/23/2026 12:12	R388347
Depth to water from measuring point	*	0		**27.58**	ft	1	07/23/2026 12:12	R388347
Elevation of groundwater surface	*	0		**528.04**	ft	1	07/23/2026 12:12	R388347
Measuring Point Elevation	*	0		**555.62**	ft	1	07/23/2026 12:12	R388347
Measuring Point Height Above Land Surface	*	0		**2.31**	ft	1	07/23/2026 12:12	R388347
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.1**	NTU	1	07/23/2026 12:12	R388347
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.5**	°F	1	07/23/2026 12:12	R388347
SW-846 9040B								
pH, Field	*	1.00		**7.07**		1	07/23/2026 12:12	R388347
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**917**	µmhos/cm @25C	1	07/23/2026 12:12	R388347
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**534**	mg/L	1	07/24/2026 10:33	R388043
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 19:26	R388053
Chloride	NELAP	5.00		**15.9**	mg/L	10	07/27/2026 19:26	R388053
Sulfate	NELAP	10.0		**ND**	mg/L	10	07/27/2026 19:26	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	2.5	B	**221**	µg/L	1	07/27/2026 14:16	260103
Beryllium	NELAP	0.5		**< 0.5**	µg/L	1	07/27/2026 14:16	260103
Boron	NELAP	20.0		**188**	µg/L	1	07/29/2026 20:05	260103
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	07/27/2026 14:16	260103
Calcium	NELAP	0.100		**108**	mg/L	1	07/27/2026 14:16	260103
Chromium	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:16	260103
Cobalt	NELAP	5.0		**< 5.0**	µg/L	1	07/27/2026 14:16	260103
Lead	NELAP	7.5		**< 7.5**	µg/L	1	07/27/2026 14:16	260103
Molybdenum	NELAP	10.0		**< 10.0**	µg/L	1	07/27/2026 14:16	260103
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 21:12	260103
Arsenic	NELAP	1.0		**4.3**	µg/L	5	08/01/2026 1:55	260103
Lithium	*	3.0		**9.7**	µg/L	5	07/29/2026 21:12	260103
Selenium	NELAP	1.0		**< 1.0**	µg/L	5	07/29/2026 21:12	260103
Thallium	NELAP	2.0		**< 2.0**	µg/L	5	07/29/2026 21:12	260103
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	07/27/2026 9:37	260102
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**2.82**	pci/L	1	08/15/2026 9:57	R389888
Combined 226/228 Uncertainty	*	0		**0.930**	+/-	1	08/15/2026 9:57	R389888
Radium-226	*	1.00		**ND**	pci/L	1	08/15/2026 9:57	R389888
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/15/2026 9:57	R389888
Radium-228	*	1.00		**2.82**	pci/L	1	08/14/2026 13:33	R389888

Client: City Water, Light & Power
Work Order: 26071205
Client Project: Ash Pond Monitoring Wells
Report Date: 01-Sep-26
Lab ID: 26071205-023
Client Sample ID: AP17
Matrix: GROUNDWATER
Collection Date: 07/23/2026 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228 Uncertainty	*	0		**0.880**	+/-	1	08/14/2026 13:33	R389888

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 26071205
Report Date: 01-Sep-26

Carrier: Frank Barthol

Received By: CS

Completed by: Laura E Henson
On: 22-Jul-26

Reviewed by: Amber Dilallo
On: 28-Jul-26

Pages to follow: Chain of custody 8 Extra pages included 72

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	24.1	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #104524. -CRS/ lhenson - 7/22/2026 4:20:45 PM

Cooler #2 22.9C LTG#9. LH 7/22/26

Samples AP10, AP14 and AP17 were received on 7/23/26 at 16:20 on ice [22.7 C, 22.1C - LTG#9]. pH strip #104524. - JD/kmoore - 7/24/2026 9:18:45 AM

Samples RW-3, AP-2, AP-3, AP-4, and AP-5 were received on 7/23/26 at 13:00 on ice [8.7 C, 14.5 C - LTG#9]. pH strip #104524. - JD/kmoore - 7/24/2026 1:50:59 PM

AP-1, AP-6, AP-7, AP-9, AP11, AP12, AP13, T-01, T-02, T-04, T-05, and T-06 were received on 7/27/2026 at 15:20 on ice [25.5 C, 24.9 C, 13.1 C, 12.1 - LTG#3]. pH strip #104524. - kmoore - 7/27/2026 4:16:46 PM

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CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 26071205

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 24.1/22.9°C 9
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: DRY 10US2H CRS 7-22-26

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Frank Barthol

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED													
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity							
26071205-001	RW-3	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
002	AP-1	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
003	AP-2	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
004	AP-3	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
005	AP-4	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
006	AP-5	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
007	AP-6	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
008	AP-7	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
009	AP-8	7.22/1201	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
010	AP-9	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
011	AP10	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							

Relinquished By	Date/Time	Received By	Date/Time
	7.22/1752 1255	Caroline Spencer	7-22-26 1552

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 2 of 3 Workorder # 26071205

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Frank Bartholi

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED													
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity							
26071205-012	AP11	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
013	AP12	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
014	AP13	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
015	AP14	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
016	T-01	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
017	T-02	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
018	T-04	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
019	T-05	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
020	T-06	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
021	AW-1	7.22/1005	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							
022	G120	7.22/1050	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔							

Relinquished By	Date/Time	Received By	Date/Time
	7.22/1752 1552 TE CRS 7.22.26	Caroline Spencer	7.22.26 1552

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 26071205

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

22.7, 22.1

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE ____ °C 9
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: pH 04524 SO 7/23/24

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: Frank Barthel

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other ____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26071205-001	RW-3	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
002	AP-1	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
003	AP-2	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
004	AP-3	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
005	AP-4	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
006	AP-5	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
007	AP-6	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
008	AP-7	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
009	AP-8	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
010	AP-9	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓
011	AP10	7.23 1336	Groundwater	1	4								✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
[signature]	7.23 1620	[signature]	7/23/26 1620

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Frank Barthol

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26071205-012	AP11	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
013	AP12	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
014	AP13	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
015	AP14	7.23/953	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
016	T-01	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
017	T-02	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
018	T-04	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
019	T-05	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
020	T-06	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
021	AW-1	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
022	G120	—	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
FB	7.23 1600		7/23/24 1620

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 3 of 3 Workorder # 26071205

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Frank Barthol

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26071205-023	AP17	7.23 | 1212	Groundwater	1	4														
			Groundwater																
			Groundwater																
			Groundwater																
			Groundwater																
			Groundwater																
			Groundwater																
			Groundwater																
			Groundwater																
			Groundwater																
			Groundwater																

Relinquished By	Date/Time	Received By	Date/Time
[signature]	7.23 1620	[signature]	7/23/26 1620

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CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 26071205

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

8.7, 14.5

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☑ ICE ☐ BLUE ICE ☐ NO ICE ____ °C 9
Preserved in: ☐ LAB ☑ FIELD FOR LAB USE ONLY
LAB NOTES: PH 104524

DO 7/24/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Gilp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26071205-001	RW-3	7-24 1038	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
003	AP-2	7-24 1043	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
004	AP-3	7-24 1008	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
005	AP-4	7-24 1135	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
006	AP-5	7-24 1019	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
007	AP-6		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
008	AP-7		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
010	AP-9		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
011	AP10		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	7-24/1300		7/24/24 1300

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CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 26071205

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

25.4.9.12.1

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 15.1 °C #3
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: pH/10 5.24.KT M 7.27.26

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Gp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26071205-001	RW-3		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
002	AP-1	7-27 1113	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
003	AP-2		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
004	AP-3		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
006	AP-5		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
007	AP-6	7-27 1147	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
008	AP-7	7-27 1343	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
010	AP-9	7-27 1100	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
011	AP10		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	7.27 1525		7.27.26 15:20

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CHAIN OF CUSTODY

Pg 2 of 3 Workorder # 26071205

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring-to be reported electronically

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Gib

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Combined Radium	Field Turbidity
26071205-012	AP11	7-27 1215	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
013	AP12	7-27 1050	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
014	AP13	7-27 1015	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
015	AP14		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
016	T-01	7-27 1257	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
017	T-02	7-27 1130	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
018	T-04	7-27 1224	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
019	T-05	7-27 1306	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
020	T-06	7-27 1328	Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
021	AW-1		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔
022	G120		Groundwater	1	4								✔	✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	7-27/1520		7-27-26 15:20

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Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	RW-3
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	26071205	**Date (s):**	7/24/2026

Field Team Members

Name: Drew Nieters Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 74 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/24/26 11:05 AM

Static Water Level: 9.76 feet below TOC

Total Depth: 44.01 feet below TOC

Water Column: 34.25 feet

Purging Activities

Purged By: DN Purge Date: 7/24/2026

Purge Equipment: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 34.25 ft. x 0.022 = 0.75 L x 3 Vol. = 2.25 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: Moderate Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:22	0.0	250	purge start time						
10:23	0.2	↓	7.23	458.30	15.10	2.35	-33.60	11.36	10.06
10:26	1.0		7.11	796.60	14.68	0.77	-121.60	5.68	10.35
10:29	1.8		7.06	800.80	14.74	0.71	-123.00	2.66	10.75
10:32	2.5		7.05	800.50	14.79	0.64	-127.40	3.23	13.38
10:35	3.3		7.05	801.80	14.74	0.60	-130.20	3.71	13.96
10:38	4.0		7.04	801.40	14.69	0.57	-132.30	2.91	14.56

Sampling Activities

Sampled By: PY Sample Date/Time: 7/24/2026 10:38

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.04 pH 801.40 Spec. Cond. 14.69 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 14.56 feet below TOC Drawdown: 4.80 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51302

Form Completed By: Payton Yoch **Date:** 7/24/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-1
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 88 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 10:41 AM

Static Water Level: 10.59 feet below TOC

Total Depth: 31.08 feet below TOC

Water Column: 20.49 feet

Purging Activities

Purged By: DC Purge Date: 7/27/2026

Purge Equipment: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 20.49 ft. x 0.022 = 0.45 L x 3 Vol. = 1.35 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:41	0.0	188	purge start time						
10:43	0.4	↓	7.12	1,216.30	18.03	2.62	-58.60	10.61	10.59
10:46	0.9		6.69	1,649.60	18.16	1.66	-124.56	19.05	10.61
10:49	1.5		6.69	1,676.28	18.29	0.46	-125.07	17.48	10.60
10:52	2.1		6.69	1,702.96	18.42	0.43	-125.58	15.92	10.60
10:55	2.6		6.69	1,729.64	18.55	0.41	-126.09	14.35	10.60
10:58	3.2		6.69	1,755.40	18.57	0.38	-126.20	12.39	10.60
11:01	3.8		6.68	1,782.50	18.86	0.35	-127.20	11.46	10.60
11:04	4.3		6.67	1,809.60	19.15	0.32	-128.20	10.53	10.60
11:07	4.9		6.68	1,841.70	19.03	0.29	-128.30	7.12	10.60
11:10	5.4		6.68	1,859.20	19.14	0.27	-128.20	6.72	10.62
11:13	6.0		6.68	1,870.00	19.15	0.25	-128.00	6.22	10.65

Sampling Activities

Sampled By: BG Sample Date/Time: 7/27/2026 11:13

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.68 pH 1,870.00 Spec. Cond. 19.15 Temp

Field Filtered: No Filter Type:

Water Level: 10.65 feet below TOC Drawdown: 0.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51302

Form Completed By: Brett Gillihan **Date:** 7/27/2026

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 26071205
Monitoring Point: AP-2
Sample ID: 003
Date (s): 7/24/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 73 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/24/26 10:27 AM
Static Water Level: 7.69 feet below TOC
Total Depth: 21.33 feet below TOC
Water Column: 13.64 feet

Purging Activities

Purged By: DC Purge Date: 7/24/2026
Purge Equipment: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 13.64 ft. x 0.022 = 0.3 L x 3 Vol. = 0.9 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:27	0.0	312	purge start time						
10:28	0.3	↓	7.12	658.60	18.66	5.56	32.31	25.66	7.70
10:31	1.3		6.39	1,390.00	16.20	3.59	9.10	6.66	7.69
10:34	2.2		6.33	1,387.70	16.29	1.41	-0.20	5.27	7.68
10:37	3.1		6.32	1,387.70	16.26	0.85	-3.40	4.92	7.69
10:40	4.1		6.31	1,389.10	16.27	0.64	-5.40	4.59	7.69
10:43	5.0		6.31	1,390.30	16.25	0.53	-6.80	4.59	7.70

Sampling Activities

Sampled By: BG Sample Date/Time: 7/24/2026 10:43
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.31 pH 1,390.30 Spec. Cond. 16.25 Temp
Field Filtered: No Filter Type:
Water Level: 7.70 feet below TOC Drawdown: 0.01 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51302

Form Completed By: Brett Gillihan **Date:** 7/24/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-3
Project Location:	Springfield, IL	**Sample ID:**	004
W.O. Number (s):	26071205	**Date (s):**	7/24/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 73 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/24/26 9:49 AM

Static Water Level: 9.61 feet below TOC

Total Depth: 20.80 feet below TOC

Water Column: 11.19 feet

Purging Activities

Purged By: DC Purge Date: 7/24/2026

Purge Equipment: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 11.19 ft. x 0.022 = 0.25 L x 3 Vol. = 0.75 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:49	0.0	263	purge start time						
9:50	0.3	↓	6.66	658.30	18.12	2.55	-36.60	9.08	9.63
9:53	1.1		6.39	1,432.40	16.09	1.20	-74.20	7.70	9.63
9:56	1.8		6.39	1,427.30	16.07	1.07	-77.30	6.98	9.65
9:59	2.6		6.33	1,414.90	16.07	0.70	-76.00	4.27	9.66
10:02	3.4		6.32	1,407.90	16.09	0.54	-79.50	2.86	9.67
10:05	4.2		6.33	1,404.70	16.02	0.45	-82.20	2.84	9.68
10:08	5.0		6.34	1,401.70	16.08	0.39	-84.00	1.96	9.68

Sampling Activities

Sampled By: BG Sample Date/Time: 7/24/2026 10:08

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.34 pH 1,401.70 Spec. Cond. 16.08 Temp

Field Filtered: No Filter Type:

Water Level: 9.69 feet below TOC Drawdown: 0.08 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51302

Form Completed By: Brett Gillihan **Date:** 7/24/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-4
Project Location:	Springfield, IL	**Sample ID:**	005
W.O. Number (s):	26071205	**Date (s):**	7/24/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 74 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing	X	
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/24/26 10:35 AM

Static Water Level: 10.11 feet below TOC

Total Depth: 60.41 feet below TOC

Water Column: 50.30 feet

Purging Activities

Purged By: JC Purge Date: 7/24/2026

Purge Equipment: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 50.3 ft. x 0.022 = 1.11 L x 3 Vol. = 3.33 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 12.00 L

Physical appearance of purge water: Cloudy Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:35	0.0	200	purge start time						
10:41	1.2	↓	6.91	333.60	18.29	2.66	-56.90	23.63	10.23
10:44	1.8		6.81	505.15	18.27	1.40	-98.21	12.83	10.27
10:47	2.4		6.81	502.30	18.24	1.38	-98.78	14.44	10.31
10:50	3.0		6.82	499.45	18.22	1.37	-99.35	16.06	10.31
10:53	3.6		6.82	496.60	18.20	1.35	-99.92	17.67	10.33
10:56	4.2		6.82	493.75	18.17	1.33	-100.49	19.28	10.33
10:59	4.8		6.82	490.90	18.15	1.31	-101.06	20.89	10.33
11:02	5.4		6.83	488.05	18.12	1.30	-101.63	22.51	10.33
11:05	6.0		6.83	485.20	18.10	1.28	-102.20	24.12	10.33
11:08	6.6		6.83	482.35	18.08	1.26	-102.77	25.73	10.34
11:11	7.2		6.84	479.50	18.05	1.25	-103.34	27.35	10.34
11:14	7.8		6.84	476.65	18.03	1.23	-103.91	28.96	10.35
11:17	8.4		6.84	473.80	18.01	1.21	-104.48	30.57	10.34
11:20	9.0		6.85	470.95	17.98	1.20	-105.05	32.19	10.35
11:23	9.6		6.85	467.20	17.88	1.18	-105.60	32.75	10.35
11:26	10.2		6.85	466.20	18.04	1.16	-106.20	35.43	10.35
11:29	10.8		6.85	463.20	17.91	1.14	-106.80	40.13	10.35
11:32	11.4		6.86	458.70	17.85	1.13	-107.30	36.56	10.35
11:35	12.0		6.86	454.70	17.82	1.11	-107.70	27.42	10.35

Sampling Activities

Sampled By: JC Sample Date/Time: 7/24/2026 11:35

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.87 pH 10.00 Spec. Cond. 23.96 Temp

Field Filtered: No Filter Type:

Water Level: 10.35 feet below TOC Drawdown: 0.24 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp **Date:** 7/24/2026

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 26071205
Monitoring Point: AP-5
Sample ID: 006
Date (s): 7/24/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 72 °F — Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/24/26 9:19 AM
Static Water Level: 13.96 feet below TOC
Total Depth: 31.27 feet below TOC
Water Column: 17.31 feet

Purging Activities

Purged By: JC — Purge Date: 7/24/2026
Purge Equipment: Bladder Pump — Well Diameter: 2"
Purge Volume Calculation (L): 17.31 ft. x 0.022 = 0.38 L x 3 Vol. = 1.14 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 12.00 L
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:19	0.0	200	purge start time						
9:22	0.6	↓	6.69	496.63	14.70	3.62	149.27	143.20	13.99
9:25	1.2		6.66	535.02	14.69	2.37	146.82	136.15	14.03
9:28	1.8		6.67	530.17	14.68	2.34	144.37	129.11	14.19
9:31	2.4		6.67	525.32	14.67	2.31	141.92	122.06	14.47
9:34	3.0		6.68	520.47	14.67	2.28	139.47	115.02	14.69
9:37	3.6		6.68	515.62	14.66	2.25	137.02	107.97	15.01
9:40	4.2		6.69	510.77	14.65	2.22	134.57	100.93	15.05
9:43	4.8		6.69	505.92	14.64	2.19	132.12	93.88	15.07
9:46	5.4		6.70	501.07	14.63	2.16	129.67	86.84	15.09
9:49	6.0		6.70	496.22	14.62	2.13	127.22	79.79	15.15
9:52	6.6		6.71	491.37	14.62	2.10	124.77	72.75	15.19
9:55	7.2		6.71	486.52	14.61	2.07	122.32	65.70	15.21
9:58	7.8		6.72	481.67	14.60	2.04	119.87	58.66	15.21
10:01	8.4		6.72	476.82	14.59	2.01	117.42	51.61	15.24
10:04	9.0		6.73	471.97	14.58	1.98	114.97	44.57	15.29
10:07	9.6		6.73	467.30	14.58	1.95	112.50	37.06	15.31
10:10	10.2		6.74	461.90	14.55	1.92	110.10	31.40	15.32
10:13	10.8		6.74	457.60	14.56	1.89	107.60	22.97	15.36
10:16	11.4		6.74	452.60	14.53	1.86	105.40	25.36	15.36
10:19	12.0		6.75	448.80	14.49	1.84	103.50	28.56	15.36

Sampling Activities

Sampled By: JC — Sample Date/Time: 7/24/2026 10:19
Sample Method: Low Flow — Sample Equipment: Bladder Pump
Sample Parameters: 6.75 pH — 448.80 Spec. Cond. — 14.49 Temp
Field Filtered: No — Filter Type:
Water Level: 15.36 feet below TOC — Drawdown: 1.40 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp — **Date:** 7/24/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-6
Project Location:	Springfield, IL	**Sample ID:**	007
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Brett Gillihan — Affiliation: TekLab, Inc.

Name: Danny Crump — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 90 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/27/26 11:29 AM

Static Water Level: 8.27 feet below TOC

Total Depth: 39.62 feet below TOC

Water Column: 31.35 feet

Purging Activities

Purged By: DC — Purge Date: 7/27/2026

Purge Equipment: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 31.35 ft. x 0.022 = 0.69 L x 3 Vol. = 2.07 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear — Odor: None — Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:29	0.0	278	purge start time						
11:32	0.8	↓	7.29	620.30	16.11	4.63	-104.00	22.23	8.77
11:35	1.7		7.27	720.90	15.62	1.15	-97.90	15.51	8.93
11:38	2.5		7.25	717.40	15.48	0.61	-91.80	8.79	9.02
11:41	3.3		7.24	717.80	15.39	0.40	-89.60	4.55	9.18
11:44	4.2		7.23	718.10	15.26	0.31	-89.80	2.72	9.21
11:47	5.0		7.23	718.10	15.30	0.27	-89.40	2.07	9.23

Sampling Activities

Sampled By: BG — Sample Date/Time: 7/27/2026 11:47

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 7.56 pH — 1,015.90 Spec. Cond. — 21.02 Temp

Field Filtered: No — Filter Type:

Water Level: 9.24 feet below TOC — Drawdown: 0.97 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51302

Form Completed By: Brett Gillihan — **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-7
Project Location:	Springfield, IL	**Sample ID:**	008
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 95 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 1:15 PM

Static Water Level: 11.56 feet below TOC

Total Depth: 42.52 feet below TOC

Water Column: 30.96 feet

Purging Activities

Purged By: JC — Purge Date: 7/27/2026

Purge Equipment: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 30.96 ft. x 0.022 = 0.68 L x 3 Vol. = 2.04 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
13:16	0.0	222	purge start time						
13:19	0.7	↓	6.92	350.13	16.26	2.83	-62.40	17.00	14.96
13:22	1.3		6.93	352.22	16.24	2.65	-68.26	15.32	15.22
13:25	2.0		6.93	354.31	16.21	2.47	-74.12	13.64	15.96
13:28	2.7		6.94	355.50	16.12	2.35	-78.40	11.03	16.24
13:31	3.3		6.95	359.80	16.22	2.06	-86.80	12.80	17.06
13:34	4.0		6.96	360.30	16.20	1.87	-93.10	7.06	17.78
13:37	4.7		6.97	362.90	15.99	1.72	-98.20	6.16	18.21
13:40	5.3		6.97	364.40	16.09	1.61	-102.00	5.95	18.79
13:43	6.0		6.97	366.50	16.01	1.53	-104.80	9.13	19.34

Sampling Activities

Sampled By: JC — Sample Date/Time: 7/27/2026 13:43

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 6.97 pH — 366.50 Spec. Cond. — 16.01 Temp

Field Filtered: No — Filter Type:

Water Level: 19.34 feet below TOC — Drawdown: 7.78 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp — **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-8
Project Location:	Springfield, IL	**Sample ID:**	009
W.O. Number (s):	26071205	**Date (s):**	7/22/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 74 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	No

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/22/26 11:40 AM

Static Water Level: 5.43 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 34.17 feet

Purging Activities

Purged By: FB Purge Date: 7/22/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 34.17 ft. x 0.022 = 0.75 L x 3 Vol. = 2.25 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:40	0.0	190	purge start time						
11:40	0.2	↓	6.99	1,012.00	17.70	2.21	-109.10	294.59	5.46
11:43	0.6		6.98	1,015.00	17.40	2.15	-109.80	268.65	5.46
11:46	1.1		6.98	1,014.00	16.80	2.52	-111.80	11.99	5.46
11:49	1.7		6.96	1,016.00	16.70	1.96	-113.60	13.09	5.46
11:52	2.3		6.95	1,018.00	16.60	1.73	-116.20	15.94	5.46
11:55	2.9		6.95	1,018.00	16.60	1.73	-116.50	9.06	5.47
11:58	3.4		6.95	1,018.00	16.60	1.72	-116.90	9.28	5.47
12:01	4.0		6.95	1,018.00	16.50	1.71	-117.10	8.07	5.47

Sampling Activities

Sampled By: FB Sample Date/Time: 7/22/2026 12:01

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.95 pH 1,018.00 Spec. Cond. 16.50 Temp

Field Filtered: No Filter Type:

Water Level: 5.48 feet below TOC Drawdown: 0.05 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By: Frank Barthol **Date:** 7/22/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-9
Project Location:	Springfield, IL	**Sample ID:**	010
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 85 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 9:56 AM

Static Water Level: 13.13 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 26.47 feet

Purging Activities

Purged By: JC Purge Date: 7/27/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 26.47 ft. x 0.022 = 0.58 L x 3 Vol. = 1.74 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 13.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:00	0.0	217	purge start time						
10:06	1.3	↓	6.57	720.69	18.45	2.22	-63.67	106.84	13.26
10:09	2.0		6.58	715.23	17.08	1.97	-64.94	103.04	13.33
10:12	2.6		6.58	709.77	17.19	1.95	-66.21	99.25	13.41
10:15	3.3		6.59	704.31	17.30	1.92	-67.48	95.46	13.49
10:18	3.9		6.60	698.85	17.41	1.90	-68.75	91.67	13.51
10:21	4.6		6.60	693.39	17.53	1.87	-70.02	87.88	13.65
10:24	5.2		6.61	687.93	17.64	1.84	-71.29	84.08	13.74
10:27	5.9		6.61	682.47	17.75	1.82	-72.56	80.11	13.89
10:30	6.5		6.62	677.01	17.86	1.79	-73.83	72.66	13.99
10:33	7.1		6.63	671.55	17.97	1.77	-75.10	74.47	14.05
10:36	7.8		6.63	666.09	18.08	1.74	-76.37	77.64	14.31
10:39	8.4		6.64	660.63	18.19	1.71	-77.64	58.66	14.56
10:42	9.1		6.64	655.17	18.30	1.69	-78.91	61.12	14.96
10:45	9.8		6.65	649.71	18.42	1.66	-80.18	58.44	15.04
10:48	10.4		6.66	644.25	18.53	1.64	-81.45	56.69	15.21
10:51	11.1		6.66	637.70	18.64	1.61	-82.60	35.89	15.48
10:54	11.7		6.67	634.30	18.76	1.58	-84.10	38.16	15.77
10:57	12.4		6.67	629.20	18.83	1.56	-85.40	48.63	15.96
11:00	13.0		6.68	621.20	18.99	1.53	-86.40	48.03	16.05

Sampling Activities

Sampled By: JC Sample Date/Time: 7/27/2026 11:00

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.68 pH 621.20 Spec. Cond. 18.99 Temp

Field Filtered: No Filter Type:

Water Level: 16.05 feet below TOC Drawdown: 2.92 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP10
Project Location:	Springfield, IL	**Sample ID:**	011
W.O. Number (s):	26071205	**Date (s):**	7/23/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 74 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	No

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/23/26 1:18 PM

Static Water Level: 4.13 feet below TOC

Total Depth: 38.07 feet below TOC

Water Column: 33.94 feet

Purging Activities

Purged By: FB Purge Date: 7/23/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 33.94 ft. x 0.022 = 0.75 L x 3 Vol. = 2.25 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
13:18	0.0	167	purge start time						
13:18	0.1	↓	7.14	1,338.00	25.40	5.32	-98.30	56.08	4.21
13:21	0.5		6.82	1,319.00	18.30	1.51	-102.40	4.99	4.21
13:24	1.0		6.82	1,316.00	18.40	1.15	-102.80	4.04	4.41
13:27	1.5		6.82	1,318.00	18.00	0.98	-102.90	5.59	4.43
13:30	2.0		6.82	1,318.00	18.00	0.97	-102.90	6.92	4.48
13:33	2.5		6.82	1,315.00	18.00	0.95	-102.90	7.87	4.51
13:36	3.0		6.82	1,313.00	18.00	0.93	-102.90	7.61	4.53

Sampling Activities

Sampled By: FB Sample Date/Time: 7/23/2026 13:36

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.82 pH 1,313.00 Spec. Cond. 18.00 Temp

Field Filtered: No Filter Type:

Water Level: 4.91 feet below TOC Drawdown: 0.78 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By: Frank Barthol **Date:** 7/23/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP11
Project Location:	Springfield, IL	**Sample ID:**	012
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 87 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	No			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 11:48 AM

Static Water Level: 15.02 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 7.93 feet

Purging Activities

Purged By: FB Purge Date: 7/27/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.93 ft. x 0.022 = 0.17 L x 3 Vol. = 0.51 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:48	0.0	185	purge start time						
11:48	0.1	↓	6.81	1,405.00	23.30	5.10	-69.50	10.26	15.14
11:51	0.6		6.55	1,290.00	18.40	1.49	-101.30	16.96	15.22
11:54	1.1		6.53	1,284.00	19.20	1.29	-105.40	20.70	15.31
11:57	1.7		6.51	1,296.00	19.40	1.16	-110.20	32.10	15.4
12:00	2.2		6.51	1,291.00	19.40	0.98	-116.00	30.49	15.49
12:03	2.8		6.51	1,285.00	19.40	0.91	-118.10	15.33	15.6
12:06	3.3		6.51	1,284.00	19.40	0.88	-119.10	17.36	15.63
12:09	3.9		6.51	1,284.00	19.30	0.88	-119.50	10.62	15.71
12:12	4.4		6.51	1,283.00	19.30	0.87	-119.70	8.09	15.8
12:15	5.0		6.51	1,282.00	19.30	0.86	-120.10	8.88	15.89

Sampling Activities

Sampled By: FB Sample Date/Time: 7/27/2026 12:15

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.51 pH 1,282.00 Spec. Cond. 19.30 Temp

Field Filtered: No Filter Type:

Water Level: 15.98 feet below TOC Drawdown: 0.96 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By: Frank Barthol **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP12
Project Location:	Springfield, IL	**Sample ID:**	013
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 85 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Locks	Yes	No
Well Pad	Good		Protective Casing		X
Casing	Good		Well		X
Protective Casing	Good				
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 7/27/26 10:26 AM

Static Water Level: 17.54 feet below TOC

Total Depth: 30.40 feet below TOC

Water Column: 12.86 feet

Purging Activities

Purged By: FB Purge Date: 7/27/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 12.86 ft. x 0.022 = 0.28 L x 3 Vol. = 0.84 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: Light Brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:26	0.0	167	purge start time						
10:26	0.2	↓	6.79	1,414.00	21.90	6.79	-47.30	32.33	17.92
10:29	0.5		6.43	1,504.00	17.60	1.78	-32.80	36.66	18.01
10:32	1.0		6.43	1,495.00	18.50	1.38	-31.80	49.96	18.03
10:35	1.5		6.44	1,505.00	18.70	1.25	-31.90	33.90	18.05
10:38	2.0		6.44	1,511.00	18.70	1.14	-31.80	21.89	18.07
10:41	2.5		6.44	1,514.00	18.40	1.05	-32.60	13.62	18.08
10:44	3.0		6.45	1,514.00	18.30	1.00	-32.70	16.82	18.1
10:47	3.5		6.45	1,514.00	18.30	0.99	-32.70	9.25	18.13
10:50	4.0		6.45	1,514.00	18.30	0.99	-32.70	7.48	18.16

Sampling Activities

Sampled By: FB Sample Date/Time: 7/27/2026 10:50

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.45 pH 1,514.00 Spec. Cond. 18.30 Temp

Field Filtered: No Filter Type:

Water Level: 18.21 feet below TOC Drawdown: 0.67 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688
- Apparent increase in turbidity during sample collection.

Form Completed By:  **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP13
Project Location:	Springfield, IL	**Sample ID:**	014
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 85 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 9:42 AM

Static Water Level: 17.35 feet below TOC

Total Depth: 31.00 feet below TOC

Water Column: 13.65 feet

Purging Activities

Purged By: FB Purge Date: 7/27/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 13.65 ft. x 0.022 = 0.3 L x 3 Vol. = 0.9 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:42	0.0	152	purge start time						
9:42	0.1	↓	6.80	911.00	21.60	5.98	-143.50	15.58	17.85
9:45	0.5		6.64	865.00	17.10	2.72	-156.80	18.82	17.86
9:48	0.9		6.63	854.00	17.50	1.03	-164.40	145.06	17.88
9:51	1.4		6.63	859.00	18.60	0.97	-146.00	220.64	17.9
9:54	1.8		6.63	859.00	18.60	0.96	-144.00	33.44	17.9
9:57	2.3		6.63	859.00	18.60	0.95	-142.30	45.35	17.9
10:00	2.7		6.63	860.00	18.70	0.94	-140.80	65.15	17.9
10:03	3.2		6.63	860.00	18.70	0.93	-140.40	33.14	17.9
10:06	3.6		6.63	860.00	18.70	0.93	-140.00	17.83	17.9
10:09	4.1		6.63	861.00	18.60	0.92	-139.70	5.86	17.9
10:12	4.5		6.63	861.00	18.60	0.92	-139.40	5.13	17.9
10:15	5.0		6.63	861.00	18.60	0.91	-139.30	8.91	17.9

Sampling Activities

Sampled By: FB Sample Date/Time: 7/27/2026 10:15

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.63 pH 861.00 Spec. Cond. 18.60 Temp

Field Filtered: No Filter Type:

Water Level: 17.92 feet below TOC Drawdown: 0.57 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By: Frank Barthol **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP14
Project Location:	Springfield, IL	**Sample ID:**	015
W.O. Number (s):	26071205	**Date (s):**	7/23/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 68 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/23/26 9:35 AM

Static Water Level: 2.20 feet below TOC

Total Depth: 31.20 feet below TOC

Water Column: 29.00 feet

Purging Activities

Purged By: FB Purge Date: 7/23/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 29 ft. x 0.022 = 0.64 L x 3 Vol. = 1.92 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:35	0.0	167	purge start time						
9:35	0.1	↓	7.00	2230.00	20.90	5.01	164.60	21.53	2.26
9:38	0.5		6.84	2225.00	17.60	1.73	144.40	35.66	2.28
9:41	1.0		6.85	2225.00	17.20	1.28	136.00	26.51	2.29
9:44	1.5		6.85	2222.00	17.20	0.99	126.20	25.36	2.32
9:47	2.0		6.86	2220.00	17.10	0.86	44.40	9.05	2.32
9:50	2.5		6.86	2219.00	17.10	0.85	41.30	6.71	2.32
9:53	3.0		6.87	2219.00	17.10	0.84	32.00	5.28	2.33

Sampling Activities

Sampled By: FB Sample Date/Time: 7/23/2026 9:53

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.87 pH 2,219.00 Spec. Cond. 17.10 Temp

Field Filtered: No Filter Type:

Water Level: 2.34 feet below TOC Drawdown: 0.14 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By:  **Date:** 7/23/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-01
Project Location:	Springfield, IL	**Sample ID:**	016
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 90 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	No			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 12:30 PM

Static Water Level: 13.45 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 9.50 feet

Purging Activities

Purged By: FB Purge Date: 7/27/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 9.5 ft. x 0.022 = 0.21 L x 3 Vol. = 0.63 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
12:30	0.0	167	purge start time						
12:30	0.1	↓	6.67	1,431.00	22.60	5.33	-22.30	27.24	13.77
12:33	0.5		6.53	1,396.00	17.60	1.44	12.30	32.05	13.8
12:36	1.0		6.53	1,379.00	18.60	1.24	22.60	32.48	13.83
12:39	1.5		6.52	1,390.00	19.20	1.17	36.20	43.75	13.85
12:42	2.0		6.52	1,406.00	19.50	1.08	47.90	55.93	13.85
12:45	2.5		6.51	1,410.00	19.30	0.99	55.20	28.67	13.87
12:48	3.0		6.51	1,414.00	19.40	0.90	60.10	11.17	13.88
12:51	3.5		6.51	1,415.00	19.40	0.90	62.00	14.95	13.88
12:54	4.0		6.51	1,415.00	19.40	0.90	62.30	6.66	13.88
12:57	4.5		6.51	1,417.00	19.40	0.90	62.50	8.04	13.88

Sampling Activities

Sampled By: FB Sample Date/Time: 7/27/2026 12:57

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.51 pH 1,417.00 Spec. Cond. 19.40 Temp

Field Filtered: No Filter Type:

Water Level: 13.88 feet below TOC Drawdown: 0.43 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By: Frank Barthol **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-02
Project Location:	Springfield, IL	**Sample ID:**	017
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 87 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 11:03 AM

Static Water Level: 24.69 feet below TOC

Total Depth: 34.44 feet below TOC

Water Column: 9.75 feet

Purging Activities

Purged By: FB Purge Date: 7/27/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 9.75 ft. x 0.022 = 0.21 L x 3 Vol. = 0.63 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: Moderate Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:03	0.0	185	purge start time						
11:03	0.2	↓	6.64	2,085.00	21.20	5.89	-86.10	12.28	24.79
11:06	0.6		6.48	2,192.00	16.30	2.05	-77.30	11.89	24.91
11:09	1.1		6.50	2,155.00	17.60	1.29	-90.20	16.33	25.01
11:12	1.7		6.50	2,171.00	18.10	1.23	-95.80	18.46	25.13
11:15	2.2		6.50	2,182.00	18.70	1.21	-106.40	18.99	25.22
11:18	2.8		6.50	2,182.00	18.80	1.21	-108.50	18.58	25.33
11:21	3.3		6.50	2,180.00	18.90	1.17	-111.70	18.68	25.39
11:24	3.9		6.51	2,185.00	19.00	1.12	-119.60	11.84	25.44
11:27	4.4		6.51	2,187.00	19.00	1.12	-120.80	9.32	25.56
11:30	5.0		6.51	2,188.00	19.00	1.12	-121.60	8.15	25.63

Sampling Activities

Sampled By: FB Sample Date/Time: 7/27/2026 11:30

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.51 pH 2,188.00 Spec. Cond. 19.00 Temp

Field Filtered: No Filter Type:

Water Level: 25.80 feet below TOC Drawdown: 1.11 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By: Frank Barthol **Date:** 7/27/2026

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 26071205
Monitoring Point: T-04
Sample ID: 018
Date (s): 7/27/2026

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 89 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 11:23 AM
Static Water Level: 16.75 feet below TOC
Total Depth: 27.42 feet below TOC
Water Column: 10.67 feet

Purging Activities

Purged By: JC — Purge Date: 7/27/2026
Purge Equipment: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 10.67 ft. x 0.022 = 0.23 L x 3 Vol. = 0.69 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 12.00 L
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:24	0.0	200	purge start time						
11:27	0.6	↓	6.32	362.45	22.90	4.65	33.40	113.45	16.75
11:30	1.2		6.39	363.16	22.74	4.53	32.96	105.19	16.75
11:33	1.8		6.40	363.87	22.58	4.41	32.52	96.93	16.79
11:36	2.4		6.40	364.58	22.41	4.29	32.08	88.67	16.82
11:39	3.0		6.41	365.29	22.25	4.17	31.64	80.41	16.86
11:42	3.6		6.42	366.00	22.09	4.05	31.20	72.15	16.89
11:45	4.2		6.42	366.71	21.92	3.93	30.76	63.89	16.93
11:48	4.8		6.43	367.42	21.76	3.81	30.32	58.63	16.96
11:51	5.4		6.43	368.13	21.60	3.69	29.88	43.37	17.00
11:54	6.0		6.44	368.84	21.43	3.57	29.44	38.11	17.07
11:57	6.6		6.45	369.55	21.27	3.46	29.00	32.85	17.14
12:00	7.2		6.45	370.26	21.11	3.34	28.56	27.59	17.21
12:03	7.8		6.46	370.97	20.94	3.22	28.12	32.33	17.28
12:06	8.4		6.46	371.68	20.78	3.10	27.68	37.07	17.34
12:09	9.0		6.47	372.39	20.62	2.98	27.24	41.81	17.41
12:12	9.6		6.48	373.10	20.45	2.86	26.80	46.55	17.48
12:15	10.2		6.48	369.10	20.19	2.77	25.70	37.91	17.55
12:18	10.8		6.48	377.20	20.21	2.56	26.90	74.50	17.61
12:21	11.4		6.51	384.00	20.11	2.54	25.50	63.93	17.69
12:24	12.0		6.49	369.20	19.68	2.38	24.70	57.23	17.75

Sampling Activities

Sampled By: JC — Sample Date/Time: 7/27/2026 12:24
Sample Method: Low Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.49 pH — 369.20 Spec. Cond. — 19.68 Temp
Field Filtered: No — Filter Type:
Water Level: 17.75 feet below TOC — Drawdown: 1.00 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp — **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-05
Project Location:	Springfield, IL	**Sample ID:**	019
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 92 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 12:37 PM

Static Water Level: 8.05 feet below TOC

Total Depth: 22.34 feet below TOC

Water Column: 14.29 feet

Purging Activities

Purged By: JC Purge Date: 7/27/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 14.29 ft. x 0.022 = 0.31 L x 3 Vol. = 0.93 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
12:38	0.0	214	purge start time						
12:39	0.2	↓	6.96	243.65	21.01	4.33	31.80	23.11	8.12
12:42	0.9		6.54	350.64	21.32	1.80	32.30	10.83	8.24
12:45	1.5		6.55	351.93	21.63	1.80	32.80	10.72	8.37
12:48	2.1		6.56	353.22	21.94	1.80	33.30	10.60	8.50
12:51	2.8		6.57	354.51	22.25	1.80	33.80	10.48	8.63
12:54	3.4		6.58	355.80	22.56	1.80	34.30	10.37	8.76
12:57	4.1		6.58	357.10	22.76	1.78	34.90	8.17	8.88
13:00	4.7		6.60	357.80	23.29	1.80	35.20	13.11	9.01
13:03	5.4		6.61	360.80	23.66	1.81	35.70	10.29	9.19
13:06	6.0		6.61	360.40	23.67	1.77	36.40	8.72	9.25

Sampling Activities

Sampled By: JC Sample Date/Time: 7/27/2026 13:06

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.61 pH 360.40 Spec. Cond. 23.67 Temp

Field Filtered: No Filter Type:

Water Level: 9.25 feet below TOC Drawdown: 1.20 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 223344

Form Completed By: Justin Colp **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-06
Project Location:	Springfield, IL	**Sample ID:**	020
W.O. Number (s):	26071205	**Date (s):**	7/27/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 91 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	No			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 12:55 PM

Static Water Level: 8.71 feet below TOC

Total Depth: 23.66 feet below TOC

Water Column: 14.95 feet

Purging Activities

Purged By: FB Purge Date: 7/27/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 14.95 ft. x 0.022 = 0.33 L x 3 Vol. = 0.99 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
12:55	0.0	152	purge start time						
12:55	0.2	↓	7.24	716.00	27.50	1.05	-166.40	1063.70	8.6
12:58	0.5		7.21	739.00	18.30	1.80	-135.40	207.22	8.64
13:01	0.9		7.17	735.00	21.90	1.09	-139.30	75.61	8.68
13:04	1.4		7.17	737.00	21.70	0.79	-140.70	53.18	8.68
13:07	1.8		7.17	736.00	21.70	0.68	-140.40	40.87	8.7
13:10	2.3		7.17	735.00	21.60	0.63	-138.50	35.62	8.71
13:13	2.7		7.16	734.00	21.60	0.62	-138.40	23.11	8.72
13:16	3.2		7.16	735.00	21.80	0.63	-138.10	20.90	8.76
13:19	3.6		7.17	735.00	22.40	0.60	-138.00	12.87	8.81
13:22	4.1		7.17	736.00	22.40	0.59	-138.10	6.88	8.81
13:25	4.5		7.17	736.00	22.40	0.60	-138.30	3.74	8.81
13:28	5.0		7.17	736.00	22.50	0.60	-138.50	4.73	8.83

Sampling Activities

Sampled By: FB Sample Date/Time: 7/27/2026 13:28

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 7.17 pH 736.00 Spec. Cond. 22.50 Temp

Field Filtered: No Filter Type:

Water Level: 8.91 feet below TOC Drawdown: 0.20 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By: Frank Barthol **Date:** 7/27/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AW-1
Project Location:	Springfield, IL	**Sample ID:**	021
W.O. Number (s):	26071205	**Date (s):**	7/22/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/22/26 9:38 AM

Static Water Level: 13.28 feet below TOC

Total Depth: 54.81 feet below TOC

Water Column: 41.53 feet

Purging Activities

Purged By: FB Purge Date: 7/22/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 41.53 ft. x 0.022 = 0.91 L x 3 Vol. = 2.73 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.75 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:38	0.0	176	purge start time						
9:38	0.2	↓	6.69	1,545.00	18.10	3.84	-38.20	54.23	14.22
9:41	0.5		6.62	1,506.00	16.50	2.01	-26.40	52.28	15.01
9:44	1.1		6.62	1,520.00	17.00	2.18	-28.00	45.83	15.11
9:47	1.6		6.63	1,555.00	17.20	2.29	-55.80	35.17	15.26
9:50	2.1		6.63	1,572.00	17.10	2.35	-62.40	33.93	15.53
9:53	2.6		6.63	1,569.00	17.20	2.31	-63.30	32.42	15.67
9:56	3.2		6.63	1,569.00	17.30	2.29	-63.90	33.01	15.78
9:59	3.7		6.63	1,569.00	17.30	2.29	-64.10	32.64	15.91
10:02	4.2		6.63	1,569.00	17.30	2.29	-64.20	32.78	16.04
10:05	4.8		6.63	1,569.00	17.30	2.28	-64.30	33.33	16.13

Sampling Activities

Sampled By: FB Sample Date/Time: 7/22/2026 10:05

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.63 pH 1,569.00 Spec. Cond. 17.30 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 16.96 feet below TOC Drawdown: 3.68 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By: Frank Barthol **Date:** 7/22/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	G120
Project Location:	Springfield, IL	**Sample ID:**	022
W.O. Number (s):	26071205	**Date (s):**	7/22/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 73 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/22/26 10:20 AM

Static Water Level: 15.38 feet below TOC

Total Depth: 50.37 feet below TOC

Water Column: 34.99 feet

Purging Activities

Purged By: FB Purge Date: 7/22/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 34.99 ft. x 0.022 = 0.77 L x 3 Vol. = 2.31 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:20	0.0	167	purge start time						
10:20	0.2	↓	6.96	1,195.00	19.30	5.67	-39.20	148.60	15.88
10:23	0.5		6.86	1,588.00	17.30	3.74	-1.20	57.49	15.89
10:26	1.0		6.85	1,827.00	16.90	2.32	50.10	80.01	15.89
10:29	1.5		6.82	1,832.00	17.40	2.30	56.30	79.96	15.89
10:32	2.0		6.85	1,832.00	17.50	2.31	57.10	80.87	15.89
10:35	2.5		6.85	1,836.00	17.70	2.37	79.10	67.65	15.89
10:38	3.0		6.85	1,836.00	17.70	2.36	85.90	62.32	15.89
10:41	3.5		6.85	1,837.00	17.70	2.36	86.30	61.31	15.89
10:44	4.0		6.85	1,836.00	17.70	2.36	86.70	61.43	15.89
10:47	4.5		6.85	1,836.00	17.70	2.35	87.20	61.39	15.89
10:50	5.0		6.85	1,837.00	17.70	2.35	87.96	61.67	15.89

Sampling Activities

Sampled By: FB Sample Date/Time: 7/22/2026 10:50

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.85 pH 1,837.00 Spec. Cond. 17.70 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 15.89 feet below TOC Drawdown: 0.51 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688
- Flush Mount well

Form Completed By:  **Date:** 7/22/2026

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP17
Project Location:	Springfield, IL	**Sample ID:**	023
W.O. Number (s):	26071205	**Date (s):**	7/23/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 72 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/23/26 11:48 AM

Static Water Level: 27.58 feet below TOC

Total Depth: 60.31 feet below TOC

Water Column: 32.73 feet

Purging Activities

Purged By: FB Purge Date: 7/23/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 32.73 ft. x 0.022 = 0.72 L x 3 Vol. = 2.16 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:48	0.0	188	purge start time						
11:48	0.2	↓	7.45	950.00	24.40	4.26	10.80	19.94	28.09
11:51	0.6		7.10	925.00	17.40	1.73	-20.60	17.76	28.23
11:54	1.1		7.08	923.00	17.40	1.51	-20.10	19.89	28.29
11:57	1.7		7.07	920.00	17.40	1.35	-18.60	19.66	28.36
12:00	2.3		7.07	920.00	17.30	1.34	-18.60	9.75	28.49
12:03	2.8		7.07	920.00	17.30	1.31	-18.50	8.71	28.56
12:06	3.4		7.07	919.00	17.40	1.30	-18.40	15.43	28.69
12:09	3.9		7.07	918.00	17.40	1.29	-18.40	8.83	28.8
12:12	4.5		7.07	917.00	17.50	1.28	-18.40	4.06	28.91

Sampling Activities

Sampled By: FB Sample Date/Time: 7/23/2026 12:12

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 7.07 pH 917.00 Spec. Cond. 17.50 Temp

Field Filtered: No Filter Type:

Water Level: 29.06 feet below TOC Drawdown: 1.48 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By:  **Date:** 7/23/2026

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26071205
Technician(s): FB, DC, JC, BG

Field Calibration Log(s)
CWLP- 3Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 234688 Technician(s): Frank Barthol Date: 7/22/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	159.70	7/22/26 8:49
7.0 Buffer	WC260710B	7.00	-19.50	7/22/26 8:43
10.0 Buffer	WC260710C	10.00	-190.80	7/22/26 8:55
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/22/26 9:02

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.09	7/22/26 9:08
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-FB	LCS	7/22/26 9:11	23.3	7.01	1,412	0.11		
CCV-1-FB	CCV	7/22/26 14:08	27.2	7.06	1,396	0.09		

Comments:

Field Meter ID: Pine 234688 Technician(s): Frank Barthol Date: 7/23/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	164.20	7/23/26 9:06
7.0 Buffer	WC260710B	7.00	-14.60	7/23/26 8:58
10.0 Buffer	WC260710C	10.00	-186.30	7/23/26 9:13
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/23/26 9:19

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.13	7/23/26 9:22
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-FB	LCS	7/23/26 9:24	22.4	7.00	1,410	0.13		
CCV-2-FB	CCV	7/23/26 14:45	30.23	7.06	1,391	0.16		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26071205
Technician(s): FB, DC, JC, BG

Field Calibration Log(s)
CWLP- 3Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 234688 Technician(s): Frank Barthol Date: 7/27/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	157.60	7/27/26 9:13
7.0 Buffer	WC260710B	7.00	-20.20	7/27/26 9:09
10.0 Buffer	WC260710C	10.00	-191.60	7/27/26 9:19
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/27/26 9:24

s

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.14	7/27/26 9:26
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-FB	LCS	7/27/26 9:29	23.4	7.01	1,413	0.16		
CCV-3-FB	CCV	7/27/26 13:51	29.4	7.06	1,399	0.14		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26071205
Technician(s): FB, DC, JC, BG

Field Calibration Log(s)
CWLP- 3Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 51302 Technician(s): Brett Gillihan Date: 7/24/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	135.30	7/24/26 9:38
7.0 Buffer	WC260710B	7.00	-37.10	7/24/26 9:30
10.0 Buffer	WC260710C	10.00	-196.03	7/24/26 9:44
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/24/26 9:48

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.42	7/24/26 9:49
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	7/24/26 9:52	20.4	6.99	1,411	0.4		
CCV-1	CCV	7/24/26 11:15	20.4	6.98	1,411	0.41		

Comments:

Field Meter ID: Pine 51302 Technician(s): Brett Gilihan Date: 7/27/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	134.24	7/27/26 10:24
7.0 Buffer	WC260710B	7.00	-37.08	7/27/26 10:22
10.0 Buffer	WC260710C	10.00	-196.32	7/27/26 10:27
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/27/26 10:29

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.3	7/27/26 10:31
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	7/27/26 10:37	23.2	7.02	1,412	0.31		
CCV-2-BG	CCV	7/27/26 14:00	24.3	7.03	1,415	0.34		

Comments:

Site Samping Event: Ash Pond Mon. Wells
LIMS Workorder: 26071205
Technician(s): FB, DC, JC, BG

Field Calibration Log(s)
CWLP- 3Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223344 Technician(s): justin colp Date: 7/24/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	140.60	7/24/26 8:54
7.0 Buffer	WC260710B	7.00	-31.80	7/24/26 8:50
10.0 Buffer	WC260710C	10.00	-198.70	7/24/26 8:58
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/24/26 9:07

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.94	7/24/26 9:07
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	7/24/26 9:09	21.7	7.03	1,417	0.87		
CCV-1-JC	CCV	7/24/26 11:38	21.9	7.05	1,371	0.88		

Comments:

Field Meter ID: Pine 223344 Technician(s): justin colp Date: 7/27/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	140.40	7/27/26 9:20
7.0 Buffer	WC260710B	7.00	-30.70	7/27/26 9:16
10.0 Buffer	WC260710C	10.00	-199.10	7/27/26 9:23
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/27/26 9:31

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.23	7/27/26 9:32
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	7/27/26 9:35	24.9	7.04	1,417	1.16		
CCV-2-JC	CCV	7/27/26 13:45	25.3	7.01	1,339	1.08		

Comments:

Alliance Technical Group - Akron
3310 Win St.
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August 28, 2026

Shelly Hennessy
TEKLAB Inc,
120 United Drive
Collinsville, IL 62234
TEL:
FAX:

RE: 26071205

Dear Shelly Hennessy: Order No.: 26080027

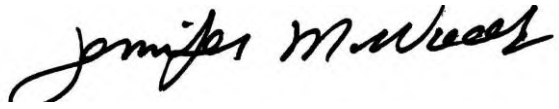
Alliance Technical Group - Akron received 23 sample(s) on 7/31/2026 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,



Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **26080027**
Date: **8/28/2026**

CLIENT: TEKLAB Inc,
Project: 26071205

WorkOrder Narrative:
26080027: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence Sample Notes:
26080027-018A Radium-228_NPW(904.0): Parent sample and duplicate exhibited high RPD.
26080027-019A Radium-228_NPW(904.0): Parent sample and duplicate exhibited high RPD.

Analytical Sequence QC Notes:
LCS/LCSD-101685 Radium-228_NPW(904.0): LCS/LCSD exhibit high RPD. Both results are within acceptable criteria individually.
LCS/LCSD-101684 Radium-228_DW(904.0): LCS/LCSD exhibit high RPD. Both results are within acceptable criteria individually.

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3310 Win St.
Cuyahoga Falls, Ohio 44223
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Workorder Sample Summary

WO#: **26080027**

28-Aug-26

CLIENT: TEKLAB Inc,
Project: 26071205

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
26080027-001	26071205-001C		7/24/2026 10:38:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-002	26071205-002C		7/27/2026 11:13:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-003	26071205-003C		7/24/2026 10:43:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-004	26071205-004C		7/24/2026 10:08:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-005	26071205-005C		7/24/2026 11:35:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-006	26071205-006C		7/24/2026 10:19:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-007	26071205-007C		7/27/2026 11:47:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-008	26071205-008C		7/27/2026 1:43:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-009	26071205-009C		7/22/2026 12:01:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-010	26071205-010C		7/27/2026 11:00:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-011	26071205-011C		7/23/2026 1:36:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-012	26071205-012C		7/27/2026 12:15:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-013	26071205-013C		7/27/2026 10:50:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-014	26071205-014C		7/27/2026 10:15:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-015	26071205-015C		7/23/2026 9:53:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-016	26071205-016C		7/27/2026 12:57:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-017	26071205-017C		7/27/2026 11:30:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-018	26071205-018C		7/27/2026 12:24:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-019	26071205-019C		7/27/2026 1:06:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-020	26071205-020C		7/27/2026 1:28:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-021	26071205-021C		7/27/2026 10:05:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-022	26071205-022C		7/22/2026 10:50:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080027-023	26071205-023C		7/23/2026 12:12:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/24/2026 10:38:00 AM
Project: 26071205
Lab ID: 26080027-001
Matrix: NON-POTABLE WATER
Client Sample ID: 26071205-001C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.620	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.570	1	8/12/2026 1:15:00 PM
Yield	0.990					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 11:13:00 AM

Project: 26071205

Lab ID: 26080027-002
Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-002C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.740	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0600	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.31	1.00		pCi/L	± 0.680	1	8/12/2026 1:15:00 PM
Yield	0.930					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/24/2026 10:43:00 AM

Project: 26071205

Lab ID: 26080027-003
Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-003C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.550	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.500	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/24/2026 10:08:00 AM

Project: 26071205

Lab ID: 26080027-004
Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-004C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.610	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0400	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.570	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/24/2026 11:35:00 AM

Project: 26071205

Lab ID: 26080027-005

Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-005C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.620	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0600	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.560	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/24/2026 10:19:00 AM

Project: 26071205

Lab ID: 26080027-006
Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-006C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.530	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0300	1	8/13/2026 7:39:00 AM
Yield	0.960					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.500	1	8/12/2026 1:15:00 PM
Yield	0.840					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 11:47:00 AM

Project: 26071205

Lab ID: 26080027-007
Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-007C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.610	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0600	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.560	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 1:43:00 PM
Project: 26071205
Lab ID: 26080027-008
Matrix: NON-POTABLE WATER
Client Sample ID: 26071205-008C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.890	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0600	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.46	1.00		pCi/L	± 0.830	1	8/12/2026 1:15:00 PM
Yield	0.840					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/22/2026 12:01:00 PM

Project: 26071205

Lab ID: 26080027-009

Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-009C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.860	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.100	1	8/13/2026 7:39:00 AM
Yield	0.890					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.33	1.00		pCi/L	± 0.760	1	8/12/2026 1:15:00 PM
Yield	0.880					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 11:00:00 AM
Project: 26071205
Lab ID: 26080027-010
Matrix: NON-POTABLE WATER
Client Sample ID: 26071205-010C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.660	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.610	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/23/2026 1:36:00 PM

Project: 26071205

Lab ID: 26080027-011

Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-011C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.720	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.10	1.00		pCi/L	± 0.650	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 12:15:00 PM

Project: 26071205

Lab ID: 26080027-012
Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-012C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.510	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0300	1	8/13/2026 7:39:00 AM
Yield	0.990					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.480	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 10:50:00 AM
Project: 26071205
Lab ID: 26080027-013
Matrix: NON-POTABLE WATER
Client Sample ID: 26071205-013C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.620	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.570	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

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WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 10:15:00 AM
Project: 26071205
Lab ID: 26080027-014
Matrix: NON-POTABLE WATER
Client Sample ID: 26071205-014C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.580	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0400	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.540	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/23/2026 9:53:00 AM
Project: 26071205
Lab ID: 26080027-015
Matrix: NON-POTABLE WATER
Client Sample ID: 26071205-015C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.670	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0400	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.630	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 12:57:00 PM

Project: 26071205

Lab ID: 26080027-016
Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-016C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.530	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.480	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 11:30:00 AM
Project: 26071205
Lab ID: 26080027-017
Matrix: NON-POTABLE WATER
Client Sample ID: 26071205-017C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **TAL**
Radium-226/Radium-228	2.23	2.00		pCi/L	± 0.840	1	8/13/2026 7:39:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **TAL**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **TAL**
Radium-228	2.23	1.00		pCi/L	± 0.780	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 12:24:00 PM

Project: 26071205

Lab ID: 26080027-018
Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-018C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.690	1	8/15/2026 9:57:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/15/2026 9:57:00 AM
Yield	0.960					1	8/15/2026 9:57:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00	QDR	pCi/L	± 0.640	1	8/14/2026 1:33:00 PM
Yield	1.00					1	8/14/2026 1:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/27/2026 1:06:00 PM

Project: 26071205

Lab ID: 26080027-019

Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-019C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.850	1	8/15/2026 9:57:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0400	1	8/15/2026 9:57:00 AM
Yield	1.00					1	8/15/2026 9:57:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.87	1.00	QDR	pCi/L	± 0.810	1	8/14/2026 1:33:00 PM
Yield	1.00					1	8/14/2026 1:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/27/2026 1:28:00 PM

Project: 26071205

Lab ID: 26080027-020

Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-020C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **KM**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.770	1	8/25/2026 9:44:41 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/15/2026 9:57:00 AM
Yield	1.00					1	8/15/2026 9:57:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **KM**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.720	1	8/24/2026 2:05:23 PM
Yield	1.00					1	8/24/2026 2:05:23 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/27/2026 10:05:00 AM

Project: 26071205

Lab ID: 26080027-021

Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-021C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.750	1	8/15/2026 9:57:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/15/2026 9:57:00 AM
Yield	0.950					1	8/15/2026 9:57:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.12	1.00		pCi/L	± 0.700	1	8/14/2026 1:33:00 PM
Yield	1.00					1	8/14/2026 1:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/22/2026 10:50:00 AM

Project: 26071205

Lab ID: 26080027-022
Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-022C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	3.10	2.00		pCi/L	± 1.16	1	8/15/2026 9:57:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0400	1	8/15/2026 9:57:00 AM
Yield	1.00					1	8/15/2026 9:57:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	3.10	1.00		pCi/L	± 1.12	1	8/14/2026 1:33:00 PM
Yield	0.810					1	8/14/2026 1:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
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Analytical Report

(consolidated)

WO#: **26080027**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/23/2026 12:12:00 PM

Project: 26071205

Lab ID: 26080027-023

Matrix: NON-POTABLE WATER

Client Sample ID: 26071205-023C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	2.82	2.00		pCi/L	± 0.930	1	8/15/2026 9:57:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/15/2026 9:57:00 AM
Yield	1.00					1	8/15/2026 9:57:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	2.82	1.00		pCi/L	± 0.880	1	8/14/2026 1:33:00 PM
Yield	1.00					1	8/14/2026 1:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
D	Manual integration in which peak was deleted.
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	A deviation from the method was performed; Please refer to the Case Narrative for additional information.

Acroynms

ND	Not Detected
QC	Quality Control
MB	Method Blank
LCS	Laboratory Control Sample
LCS	Laboratory Control Sample Duplicate
QCS	Quality Control Sample
DUP	Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Different
ICV	Initial Calibration Verification
ICB	Initial Calibration Blank
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blank
RLC	Reporting Limit Check
DF	Dilution Factor

RL	Reporting Limit
MDL	Method Detection Limit
LOD	Level of Detection
LOQ	Level of Quantitation
PQL	Practical Quantitation Limit
CRQL	Contract Required Quantitation Limit
PL	Permit Limit
RegLvl	Regulatory Limit
MCL	Maximum Contamination Limit
MinCL	Minimum Compound Limit
RA	Reanalysis
RE	Reextraction
TIC	Tentatively Identified Compound
RT	Retention Time
CF	Calibration Factor
RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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DATES REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26080027-001A	26071205-001C	7/24/2026 10:38:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-002A	26071205-002C	7/27/2026 11:13:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-003A	26071205-003C	7/24/2026 10:43:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-004A	26071205-004C	7/24/2026 10:08:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-005A	26071205-005C	7/24/2026 11:35:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-006A	26071205-006C	7/24/2026 10:19:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-007A	26071205-007C	7/27/2026 11:47:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-008A	26071205-008C	7/27/2026 1:43:00 PM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM

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DATES REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26080027-008A	26071205-008C	7/27/2026 1:43:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-009A	26071205-009C	7/22/2026 12:01:00 PM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-010A	26071205-010C	7/27/2026 11:00:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-011A	26071205-011C	7/23/2026 1:36:00 PM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-012A	26071205-012C	7/27/2026 12:15:00 PM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-013A	26071205-013C	7/27/2026 10:50:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-014A	26071205-014C	7/27/2026 10:15:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-015A	26071205-015C	7/23/2026 9:53:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-016A	26071205-016C	7/27/2026 12:57:00 PM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM

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DATES REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26080027-016A	26071205-016C	7/27/2026 12:57:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-017A	26071205-017C	7/27/2026 11:30:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080027-018A	26071205-018C	7/27/2026 12:24:00 PM		Combined Radium (EPA903+904)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-226 (EPA 903.0)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-228 (EPA 904.0)		8/8/2026 10:03:00 AM	8/14/2026 1:33:00 PM
26080027-019A	26071205-019C	7/27/2026 1:06:00 PM		Combined Radium (EPA903+904)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-226 (EPA 903.0)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-228 (EPA 904.0)		8/8/2026 10:03:00 AM	8/14/2026 1:33:00 PM
26080027-020A	26071205-020C	7/27/2026 1:28:00 PM		Combined Radium (EPA903+904)		8/18/2026 9:51:00 AM	8/25/2026 9:44:41 AM
				Radium-226 (EPA 903.0)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-228 (EPA 904.0)		8/18/2026 9:51:00 AM	8/24/2026 2:05:23 PM
				Radium-228 (EPA 904.0)		8/8/2026 10:03:00 AM	8/14/2026 1:33:00 PM
26080027-021A	26071205-021C	7/27/2026 10:05:00 AM		Combined Radium (EPA903+904)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-226 (EPA 903.0)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-228 (EPA 904.0)		8/8/2026 10:03:00 AM	8/14/2026 1:33:00 PM
26080027-022A	26071205-022C	7/22/2026 10:50:00 AM		Combined Radium (EPA903+904)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-226 (EPA 903.0)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-228 (EPA 904.0)		8/8/2026 10:03:00 AM	8/14/2026 1:33:00 PM
26080027-023A	26071205-023C	7/23/2026 12:12:00 PM		Combined Radium (EPA903+904)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM
				Radium-226 (EPA 903.0)		8/8/2026 10:03:00 AM	8/15/2026 9:57:00 AM

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DATES REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26080027-023A	26071205-023C	7/23/2026 12:12:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		8/8/2026 10:03:00 AM	8/14/2026 1:33:00 PM

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QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205

BatchID: **101684**

Sample ID: **26080027-018ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247669**
Client ID: **26071205-018C**	Batch ID: **101684**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/14/2026**	SeqNo: **6370324**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.65	1.00		0	0			0.8800	60.9	20	R
Yield	0.630			0	0			1.000	45.4		

Sample ID: **26080027-019ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247669**
Client ID: **26071205-019C**	Batch ID: **101684**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/14/2026**	SeqNo: **6370327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			1.870	200	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205 **BatchID:** **101684**

Sample ID: **MB-101684**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247669**
Client ID: **BatchQC**	Batch ID: **101684**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/14/2026**	SeqNo: **6370319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-101684**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247669**
Client ID: **BatchQC**	Batch ID: **101684**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/14/2026**	SeqNo: **6370320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.53	1.00	5.000	0	70.6	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-101684**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247669**
Client ID: **BatchQC**	Batch ID: **101684**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/14/2026**	SeqNo: **6370321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.73	1.00	5.000	0	94.6	50	130	3.530	29.1	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205

BatchID: **101684**

Sample ID: **26080027-018ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247673**
Client ID: **26071205-018C**	Batch ID: **101684**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/15/2026**	SeqNo: **6370416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							0.9600	4.08	0	

Sample ID: **26080027-019ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247673**
Client ID: **26071205-019C**	Batch ID: **101684**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/15/2026**	SeqNo: **6370418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205

BatchID: **101684**

Sample ID: **MB-101684**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247673**
Client ID: **BatchQC**	Batch ID: **101684**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/15/2026**	SeqNo: **6370408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-101684**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247673**
Client ID: **BatchQC**	Batch ID: **101684**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/15/2026**	SeqNo: **6370409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.06	1.00	5.000	0	101	70	130				

Sample ID: **LCSD-101684**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/8/2026**	RunNo: **247673**
Client ID: **BatchQC**	Batch ID: **101684**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/15/2026**	SeqNo: **6370410**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.10	1.00	5.000	0	102	70	130	5.060	0.787	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205 **BatchID:** **101685**

Sample ID: **LCS-101685** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247655**
Client ID: **BatchQC** Batch ID: **101685** TestNo: **E904.0** **E903-904** Analysis Date: **8/12/2026** SeqNo: **6369984**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.59	1.00	5.000	0	91.8	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-101685** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247655**
Client ID: **BatchQC** Batch ID: **101685** TestNo: **E904.0** **E903-904** Analysis Date: **8/12/2026** SeqNo: **6369985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.13	1.00	5.000	0	62.6	50	130	4.590	37.8	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **26080026-006ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247655**
Client ID: **BatchQC** Batch ID: **101685** TestNo: **E904.0** **E903-904** Analysis Date: **8/12/2026** SeqNo: **6369989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.38	1.00		0	0			0.9300	87.6	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **26080026-007ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247655**
Client ID: **BatchQC** Batch ID: **101685** TestNo: **E904.0** **E903-904** Analysis Date: **8/12/2026** SeqNo: **6369992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.54	1.00		0	0			0.9000	52.5	20	R

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205 **BatchID:** **101685**

Sample ID: **26080026-007ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247655**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/12/2026**	SeqNo: **6369992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	1.00			0	0			0.9300	7.25		

Sample ID: **MB-101685**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247655**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/12/2026**	SeqNo: **6370010**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.980			0	0						

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205 **BatchID:** **101685**

Sample ID: **MB-101685**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247656**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/13/2026**	SeqNo: **6370070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-101685**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247656**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/13/2026**	SeqNo: **6370071**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.97	1.00	5.000	0	99.4	70	130				

Sample ID: **LCSD-101685**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247656**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/13/2026**	SeqNo: **6370072**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.53	1.00	5.000	0	111	70	130	4.970	10.7	20	

Sample ID: **26080026-006ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247656**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/13/2026**	SeqNo: **6370077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205

BatchID: **101685**

Sample ID: **26080026-007ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247656**
Client ID: **BatchQC** Batch ID: **101685** TestNo: **E903.0** **E903-904** Analysis Date: **8/13/2026** SeqNo: **6370079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205 **BatchID:** **101953**

Sample ID: **MB-101953**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/18/2026**	RunNo: **248302**
Client ID: **BatchQC**	Batch ID: **101953**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/24/2026**	SeqNo: **6387954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.930			0	0						

Sample ID: **LCS-101953**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/18/2026**	RunNo: **248302**
Client ID: **BatchQC**	Batch ID: **101953**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/24/2026**	SeqNo: **6387955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.30	1.00	5.000	0	86.0	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-101953**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/18/2026**	RunNo: **248302**
Client ID: **BatchQC**	Batch ID: **101953**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/24/2026**	SeqNo: **6387956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.72	1.00	5.000	0	74.4	50	130	4.300	14.5	20	
Yield	1.00			0	0			1.000	0		

Sample ID: **26081144-003ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/18/2026**	RunNo: **248302**
Client ID: **BatchQC**	Batch ID: **101953**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/24/2026**	SeqNo: **6387969**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.67	1.00		0	0			1.420	16.2	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26080027**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071205

BatchID: **101953**

Sample ID: **26081144-003ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/18/2026**	RunNo: **248302**
Client ID: **BatchQC**	Batch ID: **101953**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/24/2026**	SeqNo: **6387969**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

26080027

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: Sampler: Client QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = MO

Project# 26071205

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 41654 Phone: (618) 344-1004 ext. 1024

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Combined Radium			PH	cpm	PH	cpm	PH	cpm	PH	cpm
	26071205-001C	7/24/2026 10:38	☐	☑	☐	☐	☐	Groundwater	✔	✔			1	10	4 1	22	7 1	22	10 1	32
	26071205-002C	7/27/2026 11:13	☐	☑	☐	☐	☐	Groundwater	✔	✔			1	12	1	60	1	20	1	26
	26071205-003C	7/24/2026 10:43	☐	☑	☐	☐	☐	Groundwater	✔	✔			1	13	1	50	1	24	1	30
	26071205-004C	7/24/2026 10:08	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	19	5 2	33	8 1	26	11 1	32
	26071205-005C	7/24/2026 11:35	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	12	1	42	1	22	1	24
	26071205-006C	7/24/2026 10:19	☐	☑	☐	☐	☐	Groundwater	✔	✔			2	20	1	25	1	22	1	40
	26071205-007C	7/27/2026 11:47	☐	☑	☐	☐	☐	Groundwater	✔	✔			3 1	16	6 1	20	9 1	24		
	26071205-008C	7/27/2026 13:43	☐	☑	☐	☐	☐	Groundwater	✔	✔			1	20	1	33	1	26		
	26071205-009C	7/22/2026 12:01	☐	☑	☐	☐	☐	Groundwater	✔	✔			1	22	1	26	1	30		
	26071205-010C	7/27/2026 11:00	☐	☑	☐	☐	☐	Groundwater	✔	✔										
	26071205-011C	7/23/2026 13:36	☐	☑	☐	☐	☐	~~Aqueous~~ GW	✔	✔										

TE Orm 7/28/26

*Relinquished By	Date/Time	Received By	Date/Time
Mike Moore	7/28/26 17:00	Paul Garcia	7/31/26 10:30
			FedEx

Temp: 2.2 °C (23.6 °F)

Teklab maintains a strict policy of client confidentiality and as such does not provide sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: Sampler: Client QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = MO

Project# 26071205

Contact: Shelly Hennessy Email: shennessy @TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 41654 Phone: (618) 344-1004 ext. 1024

PLEASE NOTE:

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Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Combined Radium			PH	cpm	PH	cpm	PH	cpm	PH	cpm
	26071205-012C	7/27/2026 12:15	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	(12) 1	32	(15) 2	24	(18) 2	56	(21) 1	24
	26071205-013C	7/27/2026 10:50	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	30	2	26	2	42	1	20
	26071205-014C	7/27/2026 10:15	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	34	2	30	2	40	1	22
	26071205-015C	7/23/2026 09:53	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	(13) 1	26	(16) 2	22	(19) 1	32	(22) 1	22
	26071205-016C	7/27/2026 12:57	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	24	1	32	1	46	1	26
	26071205-017C	7/27/2026 11:30	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	30	2	30	1	42	2	24
	26071205-018C	7/27/2026 12:24	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	(14) 1	20	(17) 1	36	(20) 1	30		
	26071205-019C	7/27/202613:06	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	22	1	36	1	32		
	26071205-020C	7/27/2026 13:28	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	22	1	30	1	36		
	26071205-021C	7/27/2026 10:05	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐								
	26071205-022C	7/22/2026 10:50	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐								

*Relinquished By	Date/Time	Received By	Date/Time
Mylie Moore	7/28/26 17:00	Paige Gloria	7/31/26 10:30
			Fedex

Temp: 23.7°C
(23.6+0.1)

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TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = MO

Project# 26071205

Contact: Shelly Hennessy | Email: shennessy @TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 41654 | Phone: (618) 344-1004 ext. 1024

PLEASE NOTE:

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Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Combined Radium			PH	cRa								
	26071205-023C	7/23/2026 12:12	☐	☑	☐	☐	☐	Groundwater	✔	✔	☐	☐	1	24	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	1	36	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	1	30	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

*Relinquished By	Date/Time	Received By	Date/Time
Kylie Moore	7/28/26 17:00	Paige Coffman	7/31/26 10:30
			Frdrk

Temp: 23.7°C (23.6 fg.)

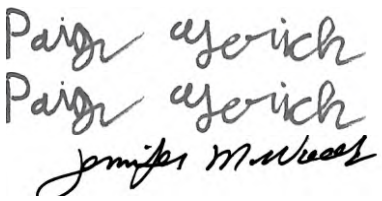
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Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **26080027** RcptNo: **1**

Logged by:	**Paige J. Yerick**	**7/31/2026 10:30:00 AM**
Completed By:	**Paige J. Yerick**	**8/1/2026 6:09:43 PM**
Reviewed By:	**Jennifer Woolf**	**8/5/2026 7:39:11 PM**



Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	23.7	Good	Yes			

August 31, 2026

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100467
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 26071206

Dear Eric Staley:

TEKLAB, INC received 8 samples on 7/27/2026 3:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 26071206
Client Project: FGDS Landfill
Report Date: 31-Aug-26

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	22
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 26071206

Client Project: FGDS Landfill **Report Date:** 31-Aug-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
A	Total Coliform and/or E. Coli (Result) is absent
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
P	Total Coliform and/or E. Coli (Result) is present
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
S	Opinion for Colisure analysis is Satisfactory
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
T.O.P.	Top of Pump
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)
U	Opinion for Colisure analysis is Unsatisfactory

Definitions

Client: City Water, Light & Power
Work Order: 26071206
Client Project: FGDS Landfill
Report Date: 31-Aug-26

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 26071206
Report Date: 31-Aug-26

Cooler Receipt Temp: 22.9 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Alliance Technical Group. See attached report for results.

Locations

Collinsville

Address 120 United Drive
Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Work Order: 26071206

Client Project: FGDS Landfill

Report Date: 31-Aug-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100467	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2027	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2027	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2027	Collinsville
Illinois	IDPH	17584		5/31/2027	Collinsville
Iowa	IDNR	430		6/1/2028	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Louisiana	LDEQ	05003		6/30/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville

Client: City Water, Light & Power **Work Order:** 26071206

Client Project: FGDS Landfill **Report Date:** 31-Aug-26

Lab ID: 26071206-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 07/22/2026 13:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	07/22/2026 13:14	R388348
Depth to water	*	-5.00		**3.66**	ft	1	07/22/2026 13:14	R388348
Depth to water from measuring point	*	0		**6.46**	ft	1	07/22/2026 13:14	R388348
Elevation of groundwater surface	*	0		**540.34**	ft	1	07/22/2026 13:14	R388348
Measuring Point Elevation	*	0		**546.80**	ft	1	07/22/2026 13:14	R388348
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	07/22/2026 13:14	R388348
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.6**	NTU	1	07/22/2026 13:14	R388348
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.2**	°F	1	07/22/2026 13:14	R388348
SW-846 9040B								
pH, Field	*	1.00		**7.06**		1	07/22/2026 13:14	R388348
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1290**	µmhos/cm @25C	1	07/22/2026 13:14	R388348
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**972**	mg/L	1	07/23/2026 13:35	R387989
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 21:10	R388408
Chloride	NELAP	5.00		**111**	mg/L	10	08/03/2026 21:10	R388408
Sulfate	NELAP	10.0		**265**	mg/L	10	08/03/2026 21:10	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.290**	mg/L	1	07/28/2026 18:14	260025
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/28/2026 18:14	260025
Boron	NELAP	0.0200		**0.140**	mg/L	1	07/28/2026 18:14	260025
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/28/2026 18:14	260025
Calcium	NELAP	0.100		**142**	mg/L	1	07/28/2026 18:14	260025
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/28/2026 18:14	260025
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/28/2026 18:14	260025
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	07/28/2026 18:14	260025
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/28/2026 18:14	260025
Cd -CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 22:53	260025
Arsenic	NELAP	0.0010		**0.0018**	mg/L	5	08/01/2026 0:27	260025
Lithium	*	0.0030		**0.0149**	mg/L	5	07/30/2026 18:02	260025
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/01/2026 0:27	260025
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/29/2026 22:53	260025
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/23/2026 10:28	260026
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Combined 226/228 Uncertainty	*	0		**0.960**	+/-	1	08/22/2026 9:55	R389872
Radium-226	*	1.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	08/22/2026 9:55	R389872

Client: City Water, Light & Power
Work Order: 26071206
Client Project: FGDS Landfill
Report Date: 31-Aug-26
Lab ID: 26071206-001
Client Sample ID: R101
Matrix: GROUNDWATER
Collection Date: 07/22/2026 13:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**1.42**	pci/L	1	08/21/2026 14:42	R389872
Radium-228 Uncertainty	*	0		**0.890**	+/-	1	08/21/2026 14:42	R389872

Client: City Water, Light & Power **Work Order:** 26071206

Client Project: FGDS Landfill **Report Date:** 31-Aug-26

Lab ID: 26071206-002 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 07/23/2026 12:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	07/23/2026 12:52	R388348
Depth to water	*	-5.00		**25.97**	ft	1	07/23/2026 12:52	R388348
Depth to water from measuring point	*	0		**27.84**	ft	1	07/23/2026 12:52	R388348
Elevation of groundwater surface	*	0		**527.76**	ft	1	07/23/2026 12:52	R388348
Measuring Point Elevation	*	0		**555.60**	ft	1	07/23/2026 12:52	R388348
Measuring Point Height Above Land Surface	*	0		**1.87**	ft	1	07/23/2026 12:52	R388348
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.4**	NTU	1	07/23/2026 12:52	R388348
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.6**	°F	1	07/23/2026 12:52	R388348
SW-846 9040B								
pH, Field	*	1.00		**6.96**		1	07/23/2026 12:52	R388348
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1560**	µmhos/cm @25C	1	07/23/2026 12:52	R388348
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1130**	mg/L	1	07/24/2026 10:33	R388043
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 20:17	R388053
Chloride	NELAP	5.00		**28.7**	mg/L	10	07/27/2026 20:17	R388053
Sulfate	NELAP	10.0		**326**	mg/L	10	07/27/2026 20:17	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025	B	**0.633**	mg/L	1	07/27/2026 17:02	260103
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/27/2026 17:02	260103
Boron	NELAP	0.0200		**3.83**	mg/L	1	07/27/2026 17:02	260103
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/27/2026 17:02	260103
Calcium	NELAP	0.100		**186**	mg/L	1	07/27/2026 17:02	260103
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:02	260103
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:02	260103
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	07/27/2026 17:02	260103
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/27/2026 17:02	260103
Sample result(s) for Ba exceeds 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 21:16	260103
Arsenic	NELAP	0.0010		**0.0177**	mg/L	5	08/01/2026 1:59	260103
Lithium	*	0.0030		**0.0086**	mg/L	5	07/29/2026 21:16	260103
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 21:16	260103
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/29/2026 21:16	260103
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/27/2026 9:39	260102
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Combined 226/228 Uncertainty	*	0		**0.840**	+/-	1	08/22/2026 9:55	R389872
Radium-226	*	1.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	08/22/2026 9:55	R389872

Client: City Water, Light & Power
Work Order: 26071206
Client Project: FGDS Landfill
Report Date: 31-Aug-26
Lab ID: 26071206-002
Client Sample ID: G121
Matrix: GROUNDWATER
Collection Date: 07/23/2026 12:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**ND**	pci/L	1	08/21/2026 14:42	R389872
Radium-228 Uncertainty	*	0		**0.780**	+/-	1	08/21/2026 14:42	R389872

Client: City Water, Light & Power **Work Order:** 26071206

Client Project: FGDS Landfill **Report Date:** 31-Aug-26

Lab ID: 26071206-003 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 07/24/2026 9:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**505.11**	ft	1	07/24/2026 9:55	R388348
Depth to water	*	-5.00		**26.16**	ft	1	07/24/2026 9:55	R388348
Depth to water from measuring point	*	0		**27.90**	ft	1	07/24/2026 9:55	R388348
Elevation of groundwater surface	*	0		**526.50**	ft	1	07/24/2026 9:55	R388348
Measuring Point Elevation	*	0		**554.40**	ft	1	07/24/2026 9:55	R388348
Measuring Point Height Above Land Surface	*	0		**1.74**	ft	1	07/24/2026 9:55	R388348
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.0**	NTU	1	07/24/2026 9:55	R388348
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.7**	°F	1	07/24/2026 9:55	R388348
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	07/24/2026 9:55	R388348
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1860**	µmhos/cm @25C	1	07/24/2026 9:55	R388348
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1490**	mg/L	1	07/27/2026 9:22	R388126
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 20:55	R388053
Chloride	NELAP	5.00		**38.3**	mg/L	10	07/27/2026 20:55	R388053
Sulfate	NELAP	10.0		**572**	mg/L	10	07/27/2026 20:55	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025	B	**0.433**	mg/L	1	07/27/2026 17:03	260103
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/27/2026 17:03	260103
Boron	NELAP	0.0200		**11.2**	mg/L	1	07/27/2026 17:03	260103
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/27/2026 17:03	260103
Calcium	NELAP	0.100		**233**	mg/L	1	07/27/2026 17:03	260103
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:03	260103
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:03	260103
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	07/27/2026 17:03	260103
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/27/2026 17:03	260103
Sample result(s) for Ba exceeds 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 21:20	260103
Arsenic	NELAP	0.0010		**0.0031**	mg/L	5	08/01/2026 2:04	260103
Lithium	*	0.0030		**0.0077**	mg/L	5	07/29/2026 21:20	260103
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 21:20	260103
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/29/2026 21:20	260103
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/28/2026 10:09	260142
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Combined 226/228 Uncertainty	*	0		**0.960**	+/-	1	08/22/2026 9:55	R389872
Radium-226	*	1.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Radium-226 Uncertainty	*	0		**0.040**	+/-	1	08/22/2026 9:55	R389872

Client: City Water, Light & Power
Work Order: 26071206
Client Project: FGDS Landfill
Report Date: 31-Aug-26
Lab ID: 26071206-003
Client Sample ID: G122
Matrix: GROUNDWATER
Collection Date: 07/24/2026 9:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**1.31**	pci/L	1	08/21/2026 14:42	R389872
Radium-228 Uncertainty	*	0		**0.920**	+/-	1	08/21/2026 14:42	R389872

Client: City Water, Light & Power **Work Order:** 26071206

Client Project: FGDS Landfill **Report Date:** 31-Aug-26

Lab ID: 26071206-004 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 07/23/2026 10:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	07/23/2026 10:58	R388348
Depth to water	*	-5.00		**-0.09**	ft	1	07/23/2026 10:58	R388348
Depth to water from measuring point	*	0		**3.21**	ft	1	07/23/2026 10:58	R388348
Elevation of groundwater surface	*	0		**526.77**	ft	1	07/23/2026 10:58	R388348
Measuring Point Elevation	*	0		**529.98**	ft	1	07/23/2026 10:58	R388348
Measuring Point Height Above Land Surface	*	0		**3.30**	ft	1	07/23/2026 10:58	R388348
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.7**	NTU	1	07/23/2026 10:58	R388348
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.9**	°F	1	07/23/2026 10:58	R388348
SW-846 9040B								
pH, Field	*	1.00		**6.90**		1	07/23/2026 10:58	R388348
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1240**	µmhos/cm @25C	1	07/23/2026 10:58	R388348
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**792**	mg/L	1	07/24/2026 10:33	R388043
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 21:07	R388053
Chloride	NELAP	5.00		**25.7**	mg/L	10	07/27/2026 21:07	R388053
Sulfate	NELAP	10.0		**138**	mg/L	10	07/27/2026 21:07	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025	B	**0.440**	mg/L	1	07/27/2026 17:05	260103
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/27/2026 17:05	260103
Boron	NELAP	0.0200		**2.58**	mg/L	1	07/27/2026 17:05	260103
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/27/2026 17:05	260103
Calcium	NELAP	0.100		**154**	mg/L	1	07/27/2026 17:05	260103
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:05	260103
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:05	260103
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	07/27/2026 17:05	260103
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/27/2026 17:05	260103
Sample result(s) for Ba exceeds 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 21:24	260103
Arsenic	NELAP	0.0010		**0.0098**	mg/L	5	08/01/2026 2:08	260103
Lithium	*	0.0030		**0.0071**	mg/L	5	07/29/2026 21:24	260103
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 21:24	260103
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/29/2026 21:24	260103
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/27/2026 9:41	260102
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Combined 226/228 Uncertainty	*	0		**0.930**	+/-	1	08/22/2026 9:55	R389872
Radium-226	*	1.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	08/22/2026 9:55	R389872

Client: City Water, Light & Power
Work Order: 26071206
Client Project: FGDS Landfill
Report Date: 31-Aug-26
Lab ID: 26071206-004
Client Sample ID: AW-2
Matrix: GROUNDWATER
Collection Date: 07/23/2026 10:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**1.27**	pci/L	1	08/21/2026 14:42	R389872
Radium-228 Uncertainty	*	0		**0.860**	+/-	1	08/21/2026 14:42	R389872

Client: City Water, Light & Power **Work Order:** 26071206

Client Project: FGDS Landfill **Report Date:** 31-Aug-26

Lab ID: 26071206-005 **Client Sample ID:** P07D

Matrix: GROUNDWATER **Collection Date:** 07/23/2026 11:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.71**	ft	1	07/23/2026 11:38	R388348
Depth to water	*	-5.00		**-0.16**	ft	1	07/23/2026 11:38	R388348
Depth to water from measuring point	*	0		**2.84**	ft	1	07/23/2026 11:38	R388348
Elevation of groundwater surface	*	0		**525.41**	ft	1	07/23/2026 11:38	R388348
Measuring Point Elevation	*	0		**528.25**	ft	1	07/23/2026 11:38	R388348
Measuring Point Height Above Land Surface	*	0		**3.00**	ft	1	07/23/2026 11:38	R388348
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.6**	NTU	1	07/23/2026 11:38	R388348
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.9**	°F	1	07/23/2026 11:38	R388348
SW-846 9040B								
pH, Field	*	1.00		**6.85**		1	07/23/2026 11:38	R388348
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1470**	µmhos/cm @25C	1	07/23/2026 11:38	R388348
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1080**	mg/L	1	07/24/2026 10:33	R388043
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 21:20	R388053
Chloride	NELAP	5.00		**30.1**	mg/L	10	07/27/2026 21:20	R388053
Sulfate	NELAP	10.0		**298**	mg/L	10	07/27/2026 21:20	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025	B	**0.743**	mg/L	1	07/27/2026 17:06	260103
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/27/2026 17:06	260103
Boron	NELAP	0.0200		**4.43**	mg/L	1	07/27/2026 17:06	260103
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/27/2026 17:06	260103
Calcium	NELAP	0.100		**174**	mg/L	1	07/27/2026 17:06	260103
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:06	260103
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:06	260103
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	07/27/2026 17:06	260103
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/27/2026 17:06	260103
Sample result(s) for Ba exceeds 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 21:28	260103
Arsenic	NELAP	0.0010		**0.0305**	mg/L	5	08/01/2026 2:12	260103
Lithium	*	0.0030		**0.0089**	mg/L	5	07/29/2026 21:28	260103
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 21:28	260103
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/29/2026 21:28	260103
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/27/2026 9:47	260102
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Combined 226/228 Uncertainty	*	0		**0.760**	+/-	1	08/22/2026 9:55	R389872
Radium-226	*	1.00		**ND**	pci/L	1	08/22/2026 9:55	R389872
Radium-226 Uncertainty	*	0		**0.070**	+/-	1	08/22/2026 9:55	R389872

Client: City Water, Light & Power
Work Order: 26071206
Client Project: FGDS Landfill
Report Date: 31-Aug-26
Lab ID: 26071206-005
Client Sample ID: P07D
Matrix: GROUNDWATER
Collection Date: 07/23/2026 11:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**ND**	pci/L	1	08/21/2026 14:42	R389872
Radium-228 Uncertainty	*	0		**0.690**	+/-	1	08/21/2026 14:42	R389872

Client: City Water, Light & Power **Work Order:** 26071206

Client Project: FGDS Landfill **Report Date:** 31-Aug-26

Lab ID: 26071206-006 **Client Sample ID:** AW-4

Matrix: GROUNDWATER **Collection Date:** 07/27/2026 13:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.89**	ft	1	07/27/2026 13:39	R388348
Depth to water	*	-5.00		**22.77**	ft	1	07/27/2026 13:39	R388348
Depth to water from measuring point	*	0		**22.44**	ft	1	07/27/2026 13:39	R388348
Elevation of groundwater surface	*	0		**530.12**	ft	1	07/27/2026 13:39	R388348
Measuring Point Elevation	*	0		**552.56**	ft	1	07/27/2026 13:39	R388348
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	07/27/2026 13:39	R388348
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**110**	NTU	1	07/27/2026 13:39	R388348
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**67.1**	°F	1	07/27/2026 13:39	R388348
SW-846 9040B								
pH, Field	*	1.00		**6.89**		1	07/27/2026 13:39	R388348
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1000**	µmhos/cm @25C	1	07/27/2026 13:39	R388348
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**602**	mg/L	1	07/28/2026 9:21	R388191
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 21:22	R388408
Chloride	NELAP	5.00		**23.7**	mg/L	10	08/03/2026 21:22	R388408
Sulfate	NELAP	10.0		**15.0**	mg/L	10	08/03/2026 21:22	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.317**	mg/L	1	07/28/2026 16:34	260196
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/28/2026 16:34	260196
Boron	NELAP	0.0200		**0.202**	mg/L	1	07/28/2026 16:34	260196
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/28/2026 16:34	260196
Calcium	NELAP	0.100		**119**	mg/L	1	07/28/2026 16:34	260196
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/28/2026 16:34	260196
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/28/2026 16:34	260196
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	07/28/2026 16:34	260196
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/28/2026 16:34	260196
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0011**	mg/L	5	08/12/2026 11:50	261873
Arsenic	NELAP	0.0010		**0.0084**	mg/L	5	08/03/2026 20:38	260196
Lithium	*	0.0030		**0.0139**	mg/L	5	08/05/2026 18:07	260196
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/03/2026 20:38	260196
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/03/2026 20:38	260196
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/30/2026 11:47	260290
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389872
Combined 226/228 Uncertainty	*	0		**0.630**	+/-	1	08/13/2026 7:39	R389872
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389872
Radium-226 Uncertainty	*	0		**0.050**	+/-	1	08/13/2026 7:39	R389872
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389872
Radium-228 Uncertainty	*	0		**0.580**	+/-	1	08/12/2026 13:15	R389872

Client: City Water, Light & Power **Work Order:** 26071206

Client Project: FGDS Landfill **Report Date:** 31-Aug-26

Lab ID: 26071206-007 **Client Sample ID:** AW-5

Matrix: GROUNDWATER **Collection Date:** 07/23/2026 14:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**492.77**	ft	1	07/23/2026 14:28	R388348
Depth to water	*	-5.00		**23.92**	ft	1	07/23/2026 14:28	R388348
Depth to water from measuring point	*	0		**23.48**	ft	1	07/23/2026 14:28	R388348
Elevation of groundwater surface	*	0		**528.35**	ft	1	07/23/2026 14:28	R388348
Measuring Point Elevation	*	0		**551.83**	ft	1	07/23/2026 14:28	R388348
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	07/23/2026 14:28	R388348
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**130**	NTU	1	07/23/2026 14:28	R388348
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.7**	°F	1	07/23/2026 14:28	R388348
SW-846 9040B								
pH, Field	*	1.00		**6.96**		1	07/23/2026 14:28	R388348
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1080**	µmhos/cm @25C	1	07/23/2026 14:28	R388348
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**646**	mg/L	1	07/24/2026 10:33	R388043
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	07/27/2026 21:33	R388053
Chloride	NELAP	5.00		**23.9**	mg/L	10	07/27/2026 21:33	R388053
Sulfate	NELAP	10.0		**23.0**	mg/L	10	07/27/2026 21:33	R388053
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025	B	**0.289**	mg/L	1	07/27/2026 17:08	260103
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/27/2026 17:08	260103
Boron	NELAP	0.0200		**0.220**	mg/L	1	07/27/2026 17:08	260103
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/27/2026 17:08	260103
Calcium	NELAP	0.100		**114**	mg/L	1	07/27/2026 17:08	260103
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:08	260103
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/27/2026 17:08	260103
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	07/27/2026 17:08	260103
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/27/2026 17:08	260103
Sample result(s) for Ba exceeds 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 21:33	260103
Arsenic	NELAP	0.0010		**0.0096**	mg/L	5	08/01/2026 2:37	260103
Lithium	*	0.0030		**0.0196**	mg/L	5	07/29/2026 21:33	260103
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/30/2026 17:07	260103
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/29/2026 21:33	260103
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/27/2026 9:49	260102
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**ND**	pci/L	1	08/13/2026 7:39	R389872
Combined 226/228 Uncertainty	*	0		**0.640**	+/-	1	08/13/2026 7:39	R389872
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389872
Radium-226 Uncertainty	*	0		**0.060**	+/-	1	08/13/2026 7:39	R389872

Client: City Water, Light & Power
Work Order: 26071206
Client Project: FGDS Landfill
Report Date: 31-Aug-26
Lab ID: 26071206-007
Client Sample ID: AW-5
Matrix: GROUNDWATER
Collection Date: 07/23/2026 14:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	1.00		**ND**	pci/L	1	08/12/2026 13:15	R389872
Radium-228 Uncertainty	*	0		**0.580**	+/-	1	08/12/2026 13:15	R389872

Client: City Water, Light & Power **Work Order:** 26071206

Client Project: FGDS Landfill **Report Date:** 31-Aug-26

Lab ID: 26071206-008 **Client Sample ID:** AW-6

Matrix: GROUNDWATER **Collection Date:** 07/22/2026 11:27

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**493.67**	ft	1	07/22/2026 11:27	R388348
Depth to water	*	-5.00		**-1.38**	ft	1	07/22/2026 11:27	R388348
Depth to water from measuring point	*	0		**1.06**	ft	1	07/22/2026 11:27	R388348
Elevation of groundwater surface	*	0		**526.05**	ft	1	07/22/2026 11:27	R388348
Measuring Point Elevation	*	0		**527.11**	ft	1	07/22/2026 11:27	R388348
Measuring Point Height Above Land Surface	*	0		**2.44**	ft	1	07/22/2026 11:27	R388348
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.8**	NTU	1	07/22/2026 11:27	R388348
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.9**	°F	1	07/22/2026 11:27	R388348
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	07/22/2026 11:27	R388348
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2060**	µmhos/cm @25C	1	07/22/2026 11:27	R388348
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1240**	mg/L	1	07/23/2026 13:35	R387989
Stable weight could not be achieved after multiple cycles of drying, cooling, and weighing. Final weight is reported.								
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/03/2026 22:01	R388408
Chloride	NELAP	5.00		**415**	mg/L	10	08/03/2026 22:01	R388408
Sulfate	NELAP	10.0		**96.5**	mg/L	10	08/03/2026 22:01	R388408
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.898**	mg/L	1	07/28/2026 18:16	260025
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/28/2026 18:16	260025
Boron	NELAP	0.0200		**9.13**	mg/L	1	07/28/2026 18:16	260025
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/28/2026 18:16	260025
Calcium	NELAP	0.100		**231**	mg/L	1	07/28/2026 18:16	260025
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/28/2026 18:16	260025
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/28/2026 18:16	260025
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	07/28/2026 18:16	260025
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/28/2026 18:16	260025
Cd -CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/29/2026 22:57	260025
Arsenic	NELAP	0.0010		**0.0250**	mg/L	5	08/01/2026 0:31	260025
Lithium	*	0.0030		**0.0101**	mg/L	5	07/30/2026 18:06	260025
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/01/2026 0:31	260025
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/29/2026 22:57	260025
LCS recovered outside upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/23/2026 10:35	260026
EPA 903.0/904.0, RADIUM 226/228								
Combined 226/228	*	2.00		**2.64**	pci/L	1	08/13/2026 7:39	R389872
Combined 226/228 Uncertainty	*	0		**0.870**	+/-	1	08/13/2026 7:39	R389872
Radium-226	*	1.00		**ND**	pci/L	1	08/13/2026 7:39	R389872

Client: City Water, Light & Power
Work Order: 26071206
Client Project: FGDS Landfill
Report Date: 31-Aug-26
Lab ID: 26071206-008
Client Sample ID: AW-6
Matrix: GROUNDWATER
Collection Date: 07/22/2026 11:27

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-226 Uncertainty	*	0		**0.080**	+/-	1	08/13/2026 7:39	R389872
Radium-228	*	1.00		**2.64**	pci/L	1	08/12/2026 13:15	R389872
Radium-228 Uncertainty	*	0		**0.790**	+/-	1	08/12/2026 13:15	R389872

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 26071206
Report Date: 31-Aug-26

Carrier: Frank Barthol

Received By: CS

Completed by: Laura E Henson
On: 22-Jul-26

Reviewed by: Amber Dilallo
On: 27-Jul-26

Pages to follow: Chain of custody 4 Extra pages included 35

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 22.9
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #104524. -CRS/ lhenson - 7/22/2026 4:15:45 PM

Samples G121, AW-2, P07D, and AW-5 were received on 7/23/26 at 16:20 on ice 22.1 C 22.7C - #9. pH strip #104524. Additional Nitric Acid (112051) was needed for G121 upon arrival at the laboratory. - JD/kmoore - 7/24/2026 9:14:33 AM

Sample G122 was received on 7/24/26 at 13:00 on ice [8.7 C, 14.5 C - LTG#9]. pH strip #104524. - JD/kmoore - 7/24/2026 1:53:49 PM

AW-4 was received on 7/27/2026 at 15:20 on ice [24.9 C - LTG#3]. pH strip #104524. - kmoore - 7/27/2026 4:10:13 PM

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 26071206

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 22.9 °C 9
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: PHV 104524 CRS 7.22.26

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Frank Bartholl

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
26071206-001	R101	7.22 | 1314	Groundwater	1	4								✓	✓	✓	✓	✓	✓
002	G121	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
003	G122	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
004	AW-2	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
005	P07D	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
006	AW-4	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
007	AW-5	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
008	AW-6	7.22 | 1127	Groundwater	1	4								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	7.22 | 1752 TE CRS 1552	Candice Spencer	7.22.26 1552

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 26071206

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

22.7, 22.1

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE ____ °C 9
Preserved in: [x] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: PH 104524
Added HNO3 (112051) 3/3 1 Liter GD JD 7/24/26

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Frank Barthol

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other ____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
26071206-001	R101	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
002	G121	7.23 / 1252	Groundwater	1	4								✓	✓	✓	✓	✓	✓
003	G122	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
004	AW-2	7.23 / 1058	Groundwater	1	4								✓	✓	✓	✓	✓	✓
005	P07D	7.23 / 1138	Groundwater	1	4								✓	✓	✓	✓	✓	✓
006	AW-4	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
007	AW-5	7.23 / 1428	Groundwater	1	4								✓	✓	✓	✓	✓	✓
008	AW-6	—	Groundwater	1	4								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	7.23 / 1620		7/23/26 1620

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 26071206

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

8.7 14.5

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE ____ °C 9
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: PH104524

JD 7/24 24

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Gb

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other ____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
26071206-001	R101		Groundwater	1	4								✓	✓	✓	✓	✓	✓
002	G121		Groundwater	1	4								✓	✓	✓	✓	✓	✓
003	G122	7-24 955	Groundwater	1	4								✓	✓	✓	✓	✓	✓
004	AW-2		Groundwater	1	4								✓	✓	✓	✓	✓	✓
005	P07D		Groundwater	1	4								✓	✓	✓	✓	✓	✓
006	AW-4		Groundwater	1	4								✓	✓	✓	✓	✓	✓
007	AW-5		Groundwater	1	4								✓	✓	✓	✓	✓	✓
008	AW-6		Groundwater	1	4								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	7-24 / 132		7/24/24 13:00

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 26071206

TEKLAB INC, 120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 2.9 °C
Preserved in: [ ] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: PW 104524 KM 7-27-26

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Culp

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
26071206-001	R101		Groundwater	1	4								✓	✓	✓	✓	✓	✓
002	G121		Groundwater	1	4								✓	✓	✓	✓	✓	✓
003	G122		Groundwater	1	4								✓	✓	✓	✓	✓	✓
004	AW-2		Groundwater	1	4								✓	✓	✓	✓	✓	✓
005	P07D		Groundwater	1	4								✓	✓	✓	✓	✓	✓
006	AW-4	7-27 1339	Groundwater	1	4								✓	✓	✓	✓	✓	✓
007	AW-5		Groundwater	1	4								✓	✓	✓	✓	✓	✓
008	AW-6		Groundwater	1	4								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	7-27-1520		7-27-15:20

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Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	R101
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	26071206	**Date (s):**	7/22/2026

Field Team Members

Name: Frank Barthol — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 76 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/22/26 12:59 PM

Static Water Level: 6.46 feet below TOC

Total Depth: 35.27 feet below TOC

Water Column: 28.81 feet

Purging Activities

Purged By: FB — Purge Date: 7/22/2026

Purge Equipment: Peristaltic Pump — Well Diameter: 3"

Purge Volume Calculation (L): 28.81 ft. x 0.022 = 0.63 L x 3 Vol. = 1.89 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
12:59	0.0	200	purge start time						
12:59	0.0	↓	6.92	1,254.00	21.20	4.12	-49.70	19.12	7.82
13:02	0.6		7.00	1,287.00	17.30	1.24	-103.70	17.65	7.82
13:05	1.2		7.06	1,288.00	17.00	0.77	-116.00	63.74	7.83
13:08	1.8		7.06	1,287.00	16.80	0.77	-116.60	12.49	7.83
13:11	2.4		7.06	1,287.00	16.80	0.76	-116.80	5.96	7.83
13:14	3.0		7.06	1,287.00	16.80	0.75	-117.00	9.65	7.83

Sampling Activities

Sampled By: FB — Sample Date/Time: 7/22/2026 13:14

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 7.06 pH — 1,287.00 Spec. Cond. — 16.80 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 7.83 feet below TOC — Drawdown: 1.37 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By:  **Date:** 7/22/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	G121
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	26071206	**Date (s):**	7/23/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 73 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/23/26 12:31 PM

Static Water Level: 27.84 feet below TOC

Total Depth: 58.56 feet below TOC

Water Column: 30.72 feet

Purging Activities

Purged By: FB Purge Date: 7/23/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 30.72 ft. x 0.022 = 0.68 L x 3 Vol. = 2.04 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
12:31	0.0	190	purge start time						
12:31	0.0	↓	7.41	1,437.00	22.20	6.02	-72.10	20.34	28.04
12:34	0.6		7.11	1,506.00	15.90	1.05	-100.00	9.74	28.52
12:37	1.1		7.01	1,509.00	15.80	0.93	-127.20	14.71	28.61
12:40	1.7		6.97	1,546.00	15.90	0.83	-137.20	19.52	28.77
12:43	2.3		6.96	1,560.00	15.80	0.74	-139.10	19.29	28.9
12:46	2.9		6.96	1,559.00	15.80	0.71	-139.60	16.40	28.94
12:49	3.4		6.96	1,559.00	15.80	0.71	-139.60	7.86	28.94
12:52	4.0		6.96	1,559.00	15.90	0.71	-139.70	7.44	28.95

Sampling Activities

Sampled By: FB Sample Date/Time: 7/23/2026 12:52

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.96 pH 1,559.00 Spec. Cond. 15.90 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 29.01 feet below TOC Drawdown: 1.17 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By:  **Date:** 7/23/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	G122
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	26071206	**Date (s):**	7/24/2026

Field Team Members

Name: Drew Nieters Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/24/26 11:03 AM

Static Water Level: 27.90 feet below TOC

Total Depth: 49.29 feet below TOC

Water Column: 21.39 feet

Purging Activities

Purged By: DN Purge Date: 7/24/2026

Purge Equipment: Submersible Pump Well Diameter: 2"

Purge Volume Calculation (L): 21.39 ft. x 0.022 = 0.47 L x 3 Vol. = 1.41 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 10.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
9:25	0.0	333	purge start time						
9:28	1.0	↓	6.55	1,561.00	15.10	3.68	10.50	24.64	28.44
9:31	2.0		6.54	1,852.30	14.69	2.58	-23.60	10.88	28.67
9:34	3.0		6.53	1,855.40	14.22	1.16	-94.00	1.44	28.91
9:37	4.0		6.53	1,858.90	14.17	1.15	-96.40	2.65	29.01
9:40	5.0		6.54	1,861.60	14.23	1.12	-98.90	1.63	29.12
9:43	6.0		6.54	1,862.70	14.38	1.10	-100.40	0.91	29.34
9:46	7.0		6.54	1,864.00	14.42	1.02	-102.30	0.71	29.4
9:49	8.0		6.54	1,865.70	14.37	0.92	-104.10	0.22	29.42
9:52	9.0		6.55	1,866.00	14.25	0.86	-105.50	0.45	29.4
9:55	10.0		6.54	1,864.30	14.83	0.84	-106.60	2.03	29.4

Sampling Activities

Sampled By: PY Sample Date/Time: 7/24/2026 9:55

Sample Method: Low Flow Sample Equipment: Submersible Pump

Sample Parameters: 6.54 pH 1,864.30 Spec. Cond. 14.83 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 29.40 feet below TOC Drawdown: 1.50 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51302

Form Completed By: Payton K Date: 7/24/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-2
Project Location:	Springfield, IL	**Sample ID:**	004
W.O. Number (s):	26071206	**Date (s):**	7/23/2026

Field Team Members

Name: Frank Barthol — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 71 °F — Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/23/26 10:40 AM

Static Water Level: 3.21 feet below TOC

Total Depth: 32.64 feet below TOC

Water Column: 29.43 feet

Purging Activities

Purged By: FB — Purge Date: 7/23/2026

Purge Equipment: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 29.43 ft. x 0.022 = 0.65 L x 3 Vol. = 1.95 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.50 L

Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
10:40	0.0	194	purge start time						
10:40	0.0	↓	7.38	1,335.00	22.20	5.55	-158.00	7.75	3.3
10:43	0.6		6.99	1,216.00	16.80	1.14	-123.90	13.17	3.3
10:46	1.2		6.93	1,235.00	16.70	0.84	-123.50	9.60	3.31
10:49	1.8		6.91	1,234.00	16.70	0.70	-122.50	10.48	3.31
10:52	2.3		6.90	1,236.00	18.70	0.63	-121.60	8.22	3.31
10:55	2.9		6.90	1,236.00	16.70	0.63	-121.50	8.47	3.31
10:58	3.5		6.90	1,237.00	16.60	0.62	-121.40	9.69	3.31

Sampling Activities

Sampled By: FB — Sample Date/Time: 7/23/2026 10:58

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.90 pH — 1,237.00 Spec. Cond. — 16.60 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 3.31 feet below TOC — Drawdown: 0.10 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By:  **Date:** 7/23/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	P07D
Project Location:	Springfield, IL	**Sample ID:**	005
W.O. Number (s):	26071206	**Date (s):**	7/23/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 72 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/23/26 11:14 AM

Static Water Level: 2.84 feet below TOC

Total Depth: 32.54 feet below TOC

Water Column: 29.70 feet

Purging Activities

Purged By: FB Purge Date: 7/23/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 29.7 ft. x 0.022 = 0.65 L x 3 Vol. = 1.95 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:14	0.0	167	purge start time						
11:14	0.0	↓	7.06	1,511.00	18.60	5.05	-127.20	273.68	3.02
11:17	0.5		6.84	1,476.00	15.70	1.06	-120.90	132.16	3.11
11:20	1.0		6.84	1,454.00	15.90	0.77	-121.70	103.56	3.06
11:23	1.5		6.84	1,472.00	15.60	0.60	-128.70	68.58	3.06
11:26	2.0		6.84	1,473.00	15.50	0.54	-130.60	54.56	3.16
11:29	2.5		6.84	1,471.00	15.60	0.52	-131.20	30.24	3.18
11:32	3.0		6.85	1,472.00	15.50	0.50	-131.10	16.59	3.18
11:35	3.5		6.85	1,471.00	15.50	0.50	-131.10	9.58	3.18
11:38	4.0		6.85	1,471.00	15.50	0.50	-131.00	9.63	3.18

Sampling Activities

Sampled By: FB Sample Date/Time: 7/23/2026 11:38

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.85 pH 1,471.00 Spec. Cond. 15.50 Temp

Field Filtered: No Filter Type:

Water Level: 3.18 feet below TOC Drawdown: 0.34 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By:  **Date:** 7/23/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-4
Project Location:	Springfield, IL	**Sample ID:**	006
W.O. Number (s):	26071206	**Date (s):**	7/27/2026

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 93 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	No			

Groundwater Level Measurements

Date/Time Measured: 7/27/26 12:38 PM

Static Water Level: 22.44 feet below TOC

Total Depth: 56.67 feet below TOC

Water Column: 34.23 feet

Purging Activities

Purged By: DC Purge Date: 7/27/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 34.23 ft. x 0.022 = 0.75 L x 3 Vol. = 2.25 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Lt Brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
12:38	0.0	49							
12:45	0.3	↓	7.22	1,236.70	19.69	2.68	-12.60	171.99	22.46
12:48	0.5		6.99	1,099.90	18.99	1.65	-56.60	188.69	22.46
12:51	0.6		6.95	1,058.90	18.36	1.16	-99.40	159.89	22.46
12:54	0.8		6.95	1,022.60	17.23	0.68	-127.80	154.56	22.47
12:57	0.9		6.94	1,021.30	17.56	0.68	-128.40	149.65	22.45
13:00	1.1		6.94	1,020.10	17.88	0.65	-129.10	141.73	22.45
13:03	1.2		6.94	1,018.90	17.96	0.65	-129.70	135.68	22.47
13:06	1.4		6.94	1,018.10	18.13	0.62	-130.30	132.46	22.47
13:09	1.5		6.92	1,016.90	18.56	0.62	-131.00	123.57	22.46
13:12	1.7		6.92	1,015.90	18.44	0.61	-131.40	117.52	22.46
13:15	1.8		6.92	1,014.90	18.96	0.58	-132.50	123.65	22.47
13:18	2.0		6.90	1,014.50	19.11	0.56	-133.10	88.46	22.47
13:21	2.1		6.91	1,013.90	19.32	0.53	-133.30	96.72	22.47
13:24	2.3		6.91	1,013.40	19.46	0.52	-133.50	100.72	22.46
13:27	2.4		6.91	1,009.80	19.63	0.50	-134.00	58.08	22.45
13:30	2.6		6.90	1,011.40	19.50	0.48	-133.60	71.75	22.46
13:33	2.7		6.90	1,006.70	19.55	0.47	-133.00	84.35	22.45
13:36	2.9		6.89	1,004.80	19.43	0.46	-131.90	63.76	22.46
13:39	3.0		6.89	1,003.20	19.50	0.45	-131.50	108.92	22.46

Sampling Activities

Sampled By: BG Sample Date/Time: 7/27/2026 13:39

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.89 pH 1,003.20 Spec. Cond. 19.50 Temp

Field Filtered: No Filter Type:

Water Level: 22.46 feet below TOC Drawdown: 0.02 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 51302

Form Completed By: Brett Gillihan **Date:** 7/27/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-5
Project Location:	Springfield, IL	**Sample ID:**	007
W.O. Number (s):	26071206	**Date (s):**	7/23/2026

Field Team Members

Name: Frank Barthol Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 74 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 7/23/26 1:49 PM

Static Water Level: 23.48 feet below TOC

Total Depth: 59.06 feet below TOC

Water Column: 35.58 feet

Purging Activities

Purged By: FB Purge Date: 7/23/2026

Purge Equipment: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 35.58 ft. x 0.022 = 0.78 L x 3 Vol. = 2.34 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 8.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Light brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
13:49	0.0	205	purge start time						
13:49	0.0	↓	7.51	1,122.00	23.10	5.34	-32.30	14.25	23.53
13:52	0.6		7.37	1,017.00	16.80	1.24	-32.50	27.92	23.6
13:55	1.2		7.36	1,015.00	16.60	1.02	-27.50	20.42	23.61
13:58	1.8		7.24	1,014.00	16.70	0.86	-89.50	39.88	23.61
14:01	2.5		7.13	1,034.00	16.00	0.61	-115.60	49.33	23.62
14:04	3.1		6.96	1,081.00	16.50	0.41	-133.10	174.84	23.63
14:07	3.7		6.96	1,080.00	16.50	0.41	-133.00	116.38	23.63
14:10	4.3		6.96	1,080.00	16.40	0.41	-133.00	102.43	23.63
14:13	4.9		6.96	1,082.00	16.40	0.41	-133.00	120.50	23.63
14:16	5.5		6.96	1,082.00	16.40	0.41	-133.00	137.75	23.63
14:19	6.2		6.96	1,081.00	16.40	0.41	-133.00	120.14	23.63
14:22	6.8		6.96	1,081.00	16.40	0.41	-133.00	121.26	23.63
14:25	7.4		6.96	1,082.00	16.40	0.41	-133.00	132.00	23.63
14:28	8.0		6.96	1,081.00	16.50	0.41	-133.10	130.35	23.63

Sampling Activities

Sampled By: FB Sample Date/Time: 7/23/2026 14:28

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.96 pH 1,081.00 Spec. Cond. 16.50 Temp

Field Filtered: No Filter Type:

Water Level: 23.63 feet below TOC Drawdown: 0.15 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By: Date: 7/23/2026

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-6
Project Location:	Springfield, IL	**Sample ID:**	008
W.O. Number (s):	26071206	**Date (s):**	7/22/2026

Field Team Members

Name: Frank Barthol — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 74 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 7/22/26 11:09 AM

Static Water Level: 1.06 feet below TOC

Total Depth: 33.44 feet below TOC

Water Column: 32.38 feet

Purging Activities

Purged By: FB — Purge Date: 7/22/2026

Purge Equipment: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 32.38 ft. x 0.022 = 0.71 L x 3 Vol. = 2.13 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft. below TOC)
11:09	0.0	167	purge start time						
11:09	0.0	↓	6.87	2,091.00	16.40	3.06	-125.60	10.54	1.11
11:12	0.5		6.85	2,064.00	14.80	1.63	-120.70	10.13	1.12
11:15	1.0		6.86	2,063.00	14.60	1.44	-120.10	10.44	1.12
11:18	1.5		6.86	2,063.00	14.40	1.36	-119.80	9.25	1.12
11:21	2.0		6.86	2,062.00	14.40	1.35	-119.40	9.52	1.12
11:24	2.5		6.86	2,062.00	14.40	1.35	-119.60	9.76	1.12
11:27	3.0		6.86	2,062.00	14.40	1.34	-119.60	9.80	1.12

Sampling Activities

Sampled By: FB — Sample Date/Time: 7/22/2026 11:27

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.86 pH — 2,062.00 Spec. Cond. — 14.40 Temp

Field Filtered: No — Filter Type:

Water Level: 1.12 feet below TOC — Drawdown: 0.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 234688

Form Completed By:  **Date:** 7/22/2026

Site Samping Event: FGDS Landfill
LIMS Workorder: 26071206
Technician(s): FB, DC, BG

Field Calibration Log(s)
CWLP- 3Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 234688 Technician(s): Frank Barthol Date: 7/22/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	159.70	7/22/26 8:49
7.0 Buffer	WC260710B	7.00	-19.50	7/22/26 8:43
10.0 Buffer	WC260710C	10.00	-190.80	7/22/26 8:55
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/22/26 9:02

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.09	7/22/26 9:08
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-FB	LCS	7/22/26 9:11	23.3	7.01	1,412	0.11		
CCV-1-FB	CCV	7/22/26 14:08	27.2	7.06	1,396	0.09		

Comments:

Field Meter ID: Pine 234688 Technician(s): Frank Barthol Date: 7/23/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	164.20	7/23/26 9:06
7.0 Buffer	WC260710B	7.00	-14.60	7/23/26 8:58
10.0 Buffer	WC260710C	10.00	-186.30	7/23/26 9:13
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/23/26 9:19

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.13	7/23/26 9:22
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-FB	LCS	7/23/26 9:24	22.4	7.00	1,410	0.13		
CCV-2-FB	CCV	7/23/26 14:45	30.23	7.06	1,391	0.16		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 26071206
Technician(s): FB, DC, BG

Field Calibration Log(s)
CWLP- 3Q 2026

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 51302 Technician(s): Brett Gillihan Date: 7/24/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	135.30	7/24/26 9:38
7.0 Buffer	WC260710B	7.00	-37.10	7/24/26 9:30
10.0 Buffer	WC260710C	10.00	-196.03	7/24/26 9:44
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/24/26 9:48

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.42	7/24/26 9:49
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	7/24/26 9:52	20.4	6.99	1,411	0.4		
CCV-1	CCV	7/24/26 11:15	20.4	6.98	1,411	0.41		

Comments:

Field Meter ID: Pine 51302 Technician(s): Brett Gilihan Date: 7/27/2026

pH Standards	LIMS ID	Reading (SU & mV)		Date/Time
4.0 Buffer	WC260710A	4.00	134.24	7/27/26 10:24
7.0 Buffer	WC260710B	7.00	-37.08	7/27/26 10:22
10.0 Buffer	WC260710C	10.00	-196.32	7/27/26 10:27
LCS/CCV (7.0 Buffer)	WC260710D			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	112045	1412	7/27/26 10:29

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.3	7/27/26 10:31
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading		Date/Time

D.O. Saturation	Barometer (mmHg)	Reading	Date/Time
100%			

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	7/27/26 10:37	23.2	7.02	1,412	0.31		
CCV-2-BG	CCV	7/27/26 14:00	24.3	7.03	1,415	0.34		

Comments:

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

August 28, 2026

Shelly Hennessy
TEKLAB Inc,
120 United Drive
Collinsville, IL 62234
TEL:
FAX:

RE: 26071206

Dear Shelly Hennessy:

Order No.: 26080026

Alliance Technical Group - Akron received 8 sample(s) on 7/31/2026 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **26080026**
Date: **8/28/2026**

CLIENT: TEKLAB Inc,
Project: 26071206

WorkOrder Narrative:
26080026: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence Sample Notes:
26080026-003A Radium-228_NPW(904.0): Sample exhibits high RPD, possibly due to sample matrix. Sample is NPW.
26080026-005A Radium-228_NPW(904.0): Both parent and DUP results are below the reporting limit.
26080026-006A Radium-228_NPW(904.0): Parent sample and DUP exhibit high RPD possibly due to sample matrix. Sample is NPW.
26080026-007A Radium-228_NPW(904.0): Parent sample and DUP exhibit high RPD possibly due to sample matrix. Sample is NPW.

Analytical Sequence QC Notes:
LCS/LCSD-101685 Radium-228_NPW(904.0): LCS/LCSD exhibit high RPD. Both results are within

acceptable criteria individually.
LCS/LCSD-102077 Radium-228_DW(904.0): LCS/LCSD exhibit high RPD. Results are within acceptable limits individually.

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Workorder Sample Summary

WO#: **26080026**

28-Aug-26

CLIENT: TEKLAB Inc,
Project: 26071206

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
26080026-001	26071206-001C		7/22/2026 1:14:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080026-002	26071206-002C		7/23/2026 12:52:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080026-003	26071206-003C		7/24/2026 9:55:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080026-004	26071206-004C		7/23/2026 10:58:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080026-005	26071206-005C		7/23/2026 11:38:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water
26080026-006	26071206-006C		7/27/2026 1:39:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080026-007	26071206-007C		7/23/2026 2:28:00 PM	7/31/2026 10:30:00 AM	Non-Potable Water
26080026-008	26071206-008C		7/22/2026 11:27:00 AM	7/31/2026 10:30:00 AM	Non-Potable Water

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Analytical Report

(consolidated)

WO#: **26080026**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/22/2026 1:14:00 PM

Project: 26071206

Lab ID: 26080026-001
Matrix: NON-POTABLE WATER

Client Sample ID: 26071206-001C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.960	1	8/22/2026 9:55:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	8/22/2026 9:55:00 AM
Yield	1.00					1	8/22/2026 9:55:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.42	1.00		pCi/L	± 0.890	1	8/21/2026 2:42:00 PM
Yield	1.00					1	8/21/2026 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080026**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/23/2026 12:52:00 PM

Project: 26071206

Lab ID: 26080026-002
Matrix: NON-POTABLE WATER

Client Sample ID: 26071206-002C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.840	1	8/22/2026 9:55:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0600	1	8/22/2026 9:55:00 AM
Yield	1.00					1	8/22/2026 9:55:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.780	1	8/21/2026 2:42:00 PM
Yield	1.00					1	8/21/2026 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080026**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/24/2026 9:55:00 AM

Project: 26071206

Lab ID: 26080026-003

Matrix: NON-POTABLE WATER

Client Sample ID: 26071206-003C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.960	1	8/22/2026 9:55:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0400	1	8/22/2026 9:55:00 AM
Yield	1.00					1	8/22/2026 9:55:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.31	1.00	QDR	pCi/L	± 0.920	1	8/21/2026 2:42:00 PM
Yield	0.940					1	8/21/2026 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080026**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/23/2026 10:58:00 AM
Project: 26071206
Lab ID: 26080026-004
Matrix: NON-POTABLE WATER
Client Sample ID: 26071206-004C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.930	1	8/22/2026 9:55:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	8/22/2026 9:55:00 AM
Yield	1.00					1	8/22/2026 9:55:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.27	1.00		pCi/L	± 0.860	1	8/21/2026 2:42:00 PM
Yield	1.00					1	8/21/2026 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

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WO#: **26080026**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/23/2026 11:38:00 AM

Project: 26071206

Lab ID: 26080026-005
Matrix: NON-POTABLE WATER

Client Sample ID: 26071206-005C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.760	1	8/22/2026 9:55:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	8/22/2026 9:55:00 AM
Yield	1.00					1	8/22/2026 9:55:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00	QDR	pCi/L	± 0.690	1	8/21/2026 2:42:00 PM
Yield	1.00					1	8/21/2026 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080026**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,
Collection Date: 7/27/2026 1:39:00 PM
Project: 26071206
Lab ID: 26080026-006
Matrix: NON-POTABLE WATER
Client Sample ID: 26071206-006C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.630	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00	QDR	pCi/L	± 0.580	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **26080026**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/23/2026 2:28:00 PM

Project: 26071206

Lab ID: 26080026-007

Matrix: NON-POTABLE WATER

Client Sample ID: 26071206-007C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.640	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0600	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00	QDR	pCi/L	± 0.580	1	8/12/2026 1:15:00 PM
Yield	0.930					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **26080026**

Date Reported: **8/28/2026**

CLIENT: TEKLAB Inc,

Collection Date: 7/22/2026 11:27:00 AM

Project: 26071206

Lab ID: 26080026-008

Matrix: NON-POTABLE WATER

Client Sample ID: 26071206-008C

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	2.64	2.00		pCi/L	± 0.870	1	8/13/2026 7:39:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0800	1	8/13/2026 7:39:00 AM
Yield	1.00					1	8/13/2026 7:39:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	2.64	1.00		pCi/L	± 0.790	1	8/12/2026 1:15:00 PM
Yield	1.00					1	8/12/2026 1:15:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Qualifiers and Acronyms

WO#: **26080026**
Date: **8/28/2026**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
D	Manual integration in which peak was deleted.
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	A deviation from the method was performed; Please refer to the Case Narrative for additional information.

Acroynms

ND	Not Detected
QC	Quality Control
MB	Method Blank
LCS	Laboratory Control Sample
LCS	Laboratory Control Sample Duplicate
QCS	Quality Control Sample
DUP	Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Different
ICV	Initial Calibration Verification
ICB	Initial Calibration Blank
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blank
RLC	Reporting Limit Check
DF	Dilution Factor

RL	Reporting Limit
MDL	Method Detection Limit
LOD	Level of Detection
LOQ	Level of Quantitation
PQL	Practical Quantitation Limit
CRQL	Contract Required Quantitation Limit
PL	Permit Limit
RegLvl	Regulatory Limit
MCL	Maximum Contamination Limit
MinCL	Minimum Compound Limit
RA	Reanalysis
RE	Reextraction
TIC	Tentatively Identified Compound
RT	Retention Time
CF	Calibration Factor
RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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DATES REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26080026-001A	26071206-001C	7/22/2026 1:14:00 PM	Non-Potable Water	Combined Radium (EPA903+904)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-226 (EPA 903.0)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-228 (EPA 904.0)		8/13/2026 8:27:00 AM	8/21/2026 2:42:00 PM
26080026-002A	26071206-002C	7/23/2026 12:52:00 PM		Combined Radium (EPA903+904)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-226 (EPA 903.0)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-228 (EPA 904.0)		8/13/2026 8:27:00 AM	8/21/2026 2:42:00 PM
26080026-003A	26071206-003C	7/24/2026 9:55:00 AM		Combined Radium (EPA903+904)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-226 (EPA 903.0)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-228 (EPA 904.0)		8/13/2026 8:27:00 AM	8/21/2026 2:42:00 PM
26080026-004A	26071206-004C	7/23/2026 10:58:00 AM		Combined Radium (EPA903+904)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-226 (EPA 903.0)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-228 (EPA 904.0)		8/13/2026 8:27:00 AM	8/21/2026 2:42:00 PM
26080026-005A	26071206-005C	7/23/2026 11:38:00 AM		Combined Radium (EPA903+904)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-226 (EPA 903.0)		8/13/2026 8:27:00 AM	8/22/2026 9:55:00 AM
				Radium-228 (EPA 904.0)		8/13/2026 8:27:00 AM	8/21/2026 2:42:00 PM
26080026-006A	26071206-006C	7/27/2026 1:39:00 PM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080026-007A	26071206-007C	7/23/2026 2:28:00 PM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM
26080026-008A	26071206-008C	7/22/2026 11:27:00 AM		Combined Radium (EPA903+904)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM
				Radium-226 (EPA 903.0)		8/7/2026 1:34:00 PM	8/13/2026 7:39:00 AM

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26080026-008A	26071206-008C	7/22/2026 11:27:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		8/7/2026 1:34:00 PM	8/12/2026 1:15:00 PM

Original

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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206 **BatchID:** **101685**

Sample ID: **LCS-101685** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247655**
Client ID: **BatchQC** Batch ID: **101685** TestNo: **E904.0** **E903-904** Analysis Date: **8/12/2026** SeqNo: **6369984**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.59	1.00	5.000	0	91.8	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-101685** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247655**
Client ID: **BatchQC** Batch ID: **101685** TestNo: **E904.0** **E903-904** Analysis Date: **8/12/2026** SeqNo: **6369985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.13	1.00	5.000	0	62.6	50	130	4.590	37.8	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **26080026-006ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247655**
Client ID: **26071206-006C** Batch ID: **101685** TestNo: **E904.0** **E903-904** Analysis Date: **8/12/2026** SeqNo: **6369989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.38	1.00		0	0			0.9300	87.6	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **26080026-007ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247655**
Client ID: **26071206-007C** Batch ID: **101685** TestNo: **E904.0** **E903-904** Analysis Date: **8/12/2026** SeqNo: **6369992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.54	1.00		0	0			0.9000	52.5	20	R

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206

BatchID: **101685**

Sample ID: **26080026-007ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247655**
Client ID: **26071206-007C**	Batch ID: **101685**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/12/2026**	SeqNo: **6369992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	1.00			0	0			0.9300	7.25		

Sample ID: **MB-101685**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247655**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/12/2026**	SeqNo: **6370010**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.980			0	0						

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206

BatchID: **101685**

Sample ID: **MB-101685**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247656**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/13/2026**	SeqNo: **6370070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-101685**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247656**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/13/2026**	SeqNo: **6370071**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.97	1.00	5.000	0	99.4	70	130				

Sample ID: **LCSD-101685**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247656**
Client ID: **BatchQC**	Batch ID: **101685**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/13/2026**	SeqNo: **6370072**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.53	1.00	5.000	0	111	70	130	4.970	10.7	20	

Sample ID: **26080026-006ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/7/2026**	RunNo: **247656**
Client ID: **26071206-006C**	Batch ID: **101685**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/13/2026**	SeqNo: **6370077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206

BatchID: **101685**

Sample ID: **26080026-007ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **8/7/2026** RunNo: **247656**
Client ID: **26071206-007C** Batch ID: **101685** TestNo: **E903.0** **E903-904** Analysis Date: **8/13/2026** SeqNo: **6370079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206

BatchID: **102077**

Sample ID: **26080026-003ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/13/2026** RunNo: **248142**
Client ID: **26071206-003C** Batch ID: **102077** TestNo: **E904.0** **E903-904** Analysis Date: **8/21/2026** SeqNo: **6383073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.36	1.00		0	0			1.310	87.8	20	R
Yield	1.00			0	0			0.9400	6.19		

Sample ID: **26080026-005ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/13/2026** RunNo: **248142**
Client ID: **26071206-005C** Batch ID: **102077** TestNo: **E904.0** **E903-904** Analysis Date: **8/21/2026** SeqNo: **6383076**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	0.910			0	0			1.000	9.42		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206

BatchID: **102077**

Sample ID: **MB-102077**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/13/2026**	RunNo: **248142**
Client ID: **BatchQC**	Batch ID: **102077**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/21/2026**	SeqNo: **6383059**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-102077**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/13/2026**	RunNo: **248142**
Client ID: **BatchQC**	Batch ID: **102077**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/21/2026**	SeqNo: **6383060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.62	1.00	5.000	0	72.4	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-102077**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/13/2026**	RunNo: **248142**
Client ID: **BatchQC**	Batch ID: **102077**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/21/2026**	SeqNo: **6383061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.51	1.00	5.000	0	90.2	50	130	3.620	21.9	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206

BatchID: **102077**

Sample ID: **26080026-003ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **8/13/2026** RunNo: **248208**
Client ID: **26071206-003C** Batch ID: **102077** TestNo: **E903.0** **E903-904** Analysis Date: **8/22/2026** SeqNo: **6385152**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Sample ID: **26080026-005ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **8/13/2026** RunNo: **248208**
Client ID: **26071206-005C** Batch ID: **102077** TestNo: **E903.0** **E903-904** Analysis Date: **8/22/2026** SeqNo: **6385155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **26080026**

28-Aug-26

Client: TEKLAB Inc,
Project: 26071206

BatchID: **102077**

Sample ID: **MB-102077**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/13/2026**	RunNo: **248208**
Client ID: **BatchQC**	Batch ID: **102077**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/22/2026**	SeqNo: **6385132**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-102077**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/13/2026**	RunNo: **248208**
Client ID: **BatchQC**	Batch ID: **102077**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/22/2026**	SeqNo: **6385133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.81	1.00	5.000	0	96.2	70	130				

Sample ID: **LCSD-102077**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/13/2026**	RunNo: **248208**
Client ID: **BatchQC**	Batch ID: **102077**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/22/2026**	SeqNo: **6385134**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.30	1.00	5.000	0	86.0	70	130	4.810	11.2	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg ___ of ___

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

26080026

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: Sampler: Client QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = MO

Project# 26071206

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 41653 Phone: (618) 344-1004 ext. 1024

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Unpres	HNO3	H2SO4	NaOH	Other	Matrix	Radium 226/228	Combined Radium			PH	cpm	PH	cpm	PH	cpm		
	26071206-001C	7/22/2026 13:14	☐	☑	☐	☐	☐	Groundwater	✔	✔			1	35	1	40	1	50		
	26071206-002C	7/23/2026 12:52	☐	☐	☐	☐	☐	Groundwater	✔	✔			1	40	1	20	2	44		
	26071206-003C	7/24/2026 09:55	☐	☐	☐	☐	☐	Groundwater	✔	✔			1	43	1	33	2	48		
	26071206-004C	7/23/2026 10:58	☐	☐	☐	☐	☐	Groundwater	✔	✔			1	40	2	40	2	20		
	26071206-005C	7/23/2026 11:38	☐	☐	☐	☐	☐	Groundwater	✔	✔			1	37	2	36	2	40		
	26071206-006C	7/27/2026 13:39	☐	☐	☐	☐	☐	Groundwater	✔	✔			1	40	1	40	2	33		
	26071206-007C	7/23/2026 14:28	☐	☐	☐	☐	☐	Groundwater	✔	✔			1	38	2	34				
	26071206-008C	7/22/2026 11:27	☐	☐	☐	☐	☐	Groundwater	✔	✔			1	42	1	30				
			☐	☐	☐	☐	☐	Aqueous					1	36	1	28				
			☐	☐	☐	☐	☐	Aqueous												
			☐	☐	☐	☐	☐	Aqueous												

*Relinquished By	Date/Time	Received By	Date/Time
Kylie Vooree	7/28/26 17:00	Paige Souza	7/31/26 10:30
			Fedex

Temp: 23.7°C (23.6+0.1)

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information, as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2, Section 4.1.5)

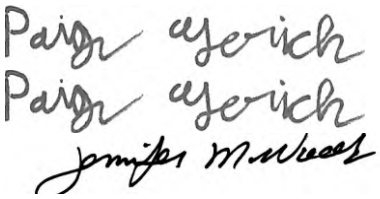
SubCocRev8

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **26080026** RcptNo: **1**

Logged by:	**Paige J. Yerick**	**7/31/2026 10:30:00 AM**
Completed By:	**Paige J. Yerick**	**8/1/2026 5:34:14 PM**
Reviewed By:	**Jennifer Woolf**	**8/5/2026 7:34:54 PM**



Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

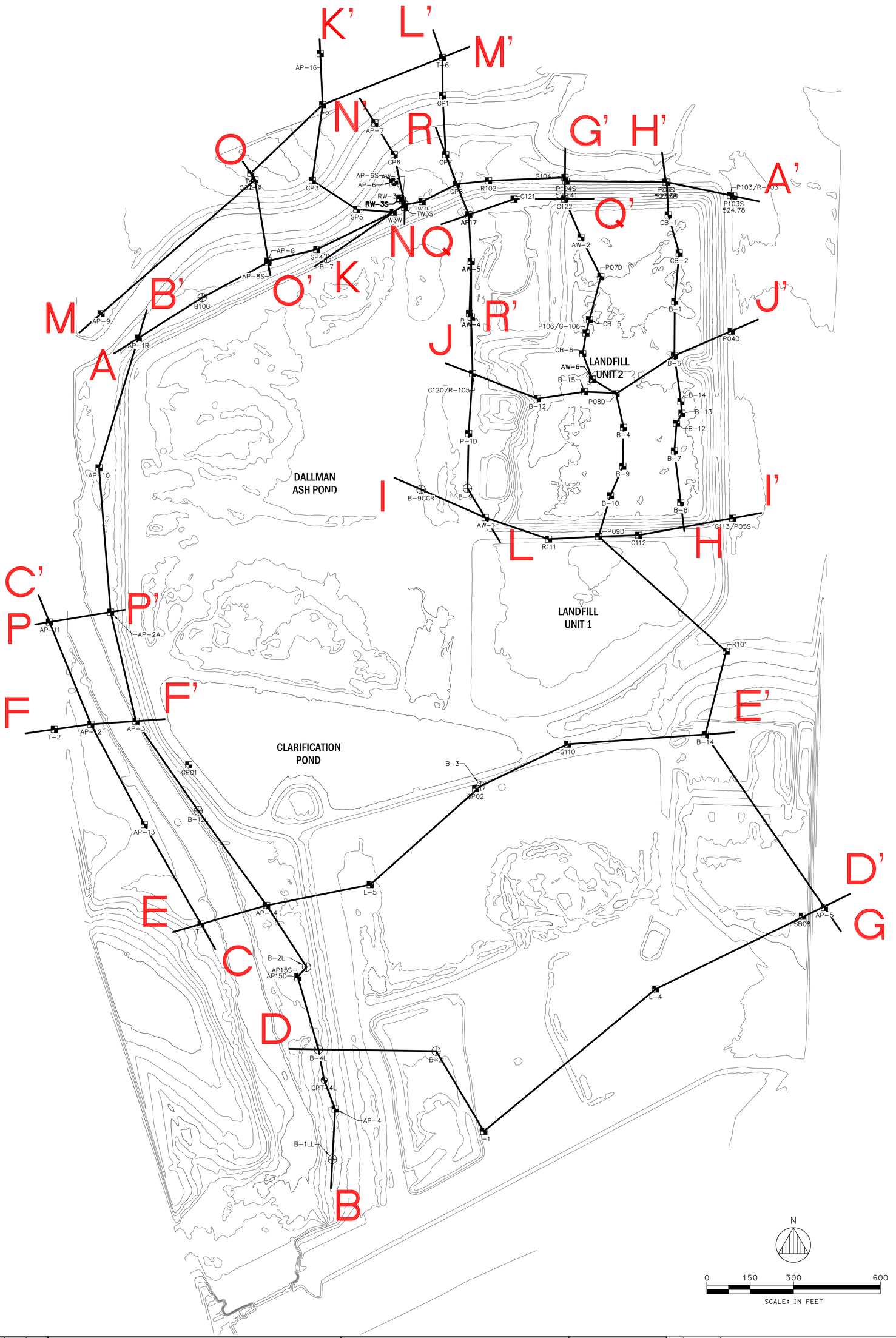
Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	23.7	Good	Yes			

APPENDIX D:
GEOLOGIC CROSS-SECTIONS



GEOLOGIC CROSS-SECTION LOCATIONS MAP

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

ANDREWS ENGINEERING
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PH (217) 787-2334 WWW.ANDREWS-ENG.COM
PONTIAC, IL • LOMBARD, IL • INDIANAPOLIS, IN • WARRENTON, MO

APPROVED BY: MTH | DESIGNED BY: MTH | DRAWN BY: BCK

NO.	DATE	REVISION DESCRIPTION	BY

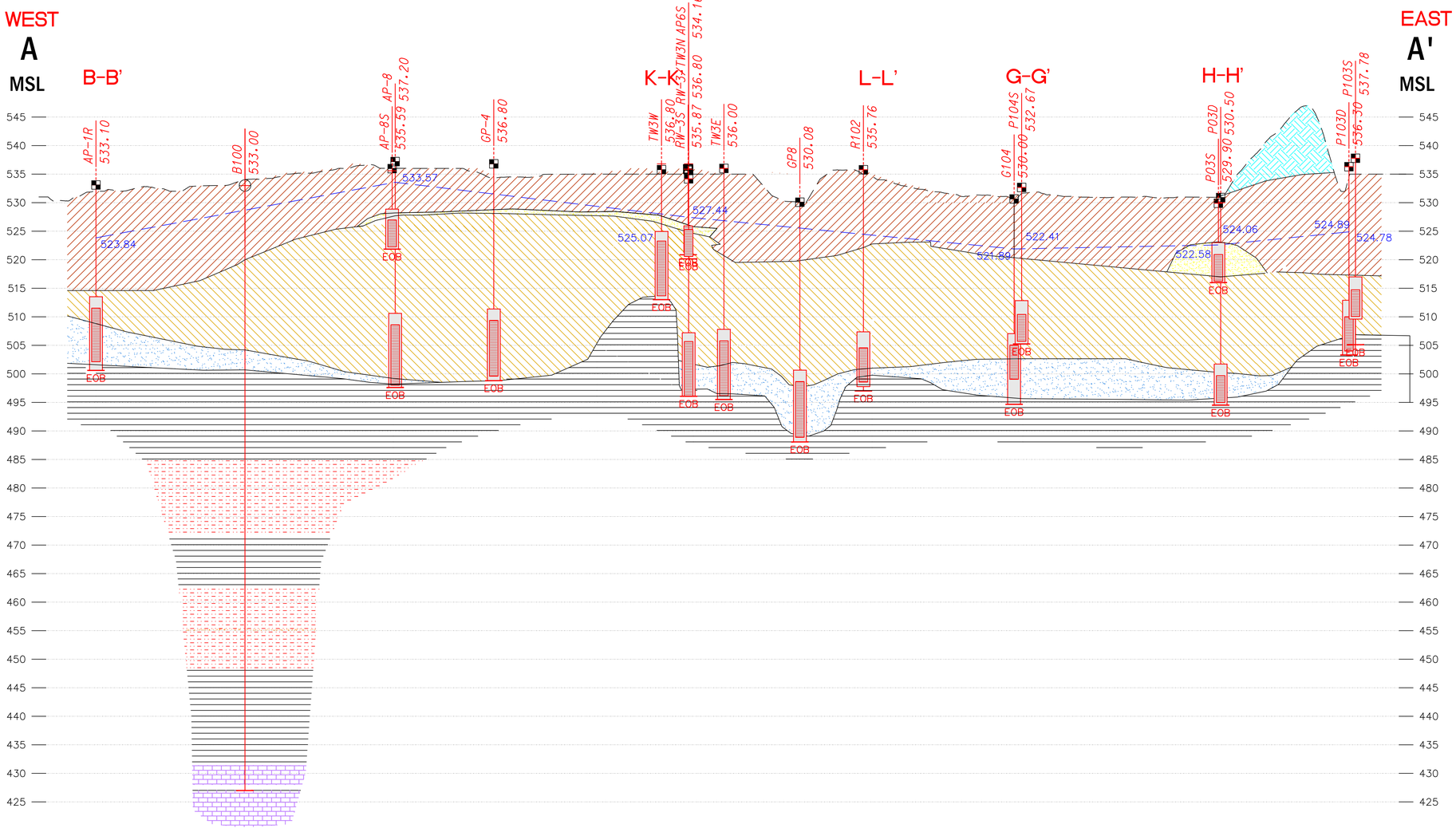
SHEET NO. 1

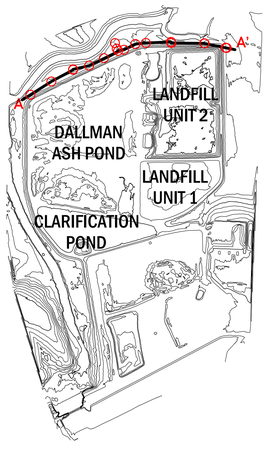
SHEET NUMBER:

PROJECT ID: 240227.0010

DATE: AUGUST 2024

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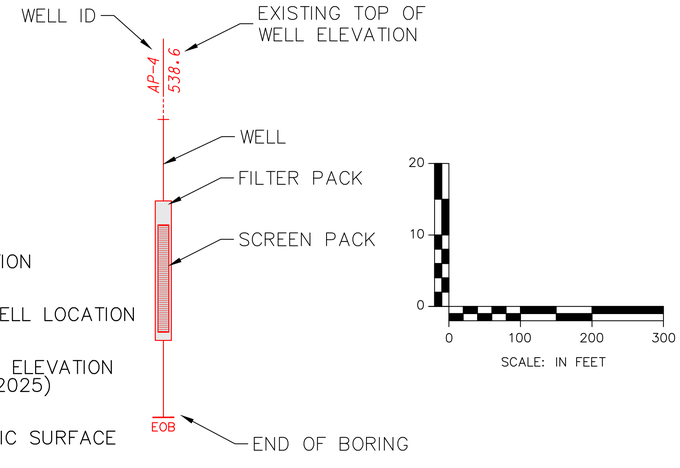


NOTES

1. DEPTH AND THICKNESS OF SUBSURFACE STRATA WERE GENERALIZED FROM AND INTERPOLATED BETWEEN BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE BORING. SEE BORING LOGS FOR DETAILED DESCRIPTION.
2. SURFACE GENERATED FROM LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: MAY 16, 2023).
3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- CLAYSTONE
- SANDSTONE
- LIMESTONE
- BORING LOCATION
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



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GEOLOGIC CROSS-SECTION A-A'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2026

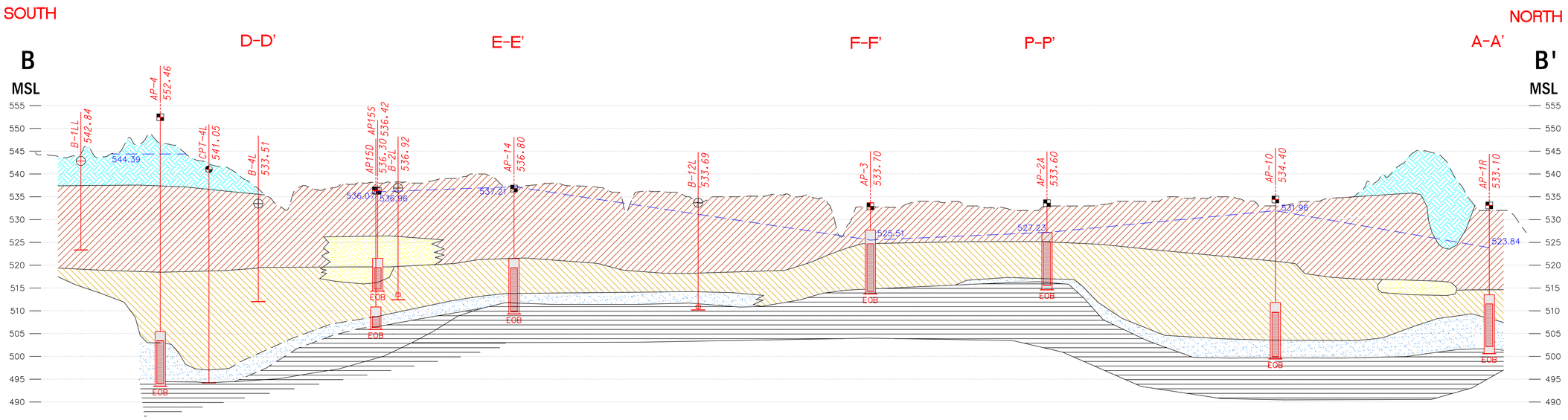
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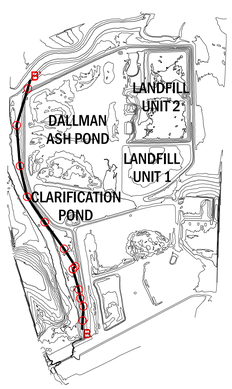
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A-A'

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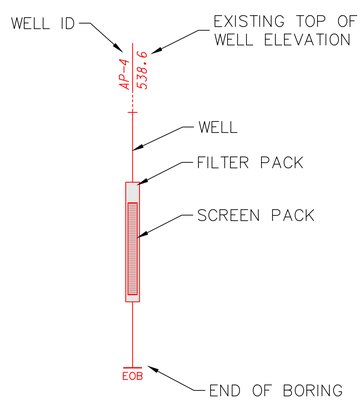


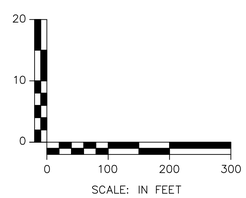
NOTES

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2. SURFACE GENERATED FROM LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: MAY 16, 2023).
3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- SHALLOW SAND
- BORING LOCATION
- MONITORING WELL LOCATION
- CPT BORING LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE





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GEOLOGIC CROSS-SECTION B-B'

PLANS PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

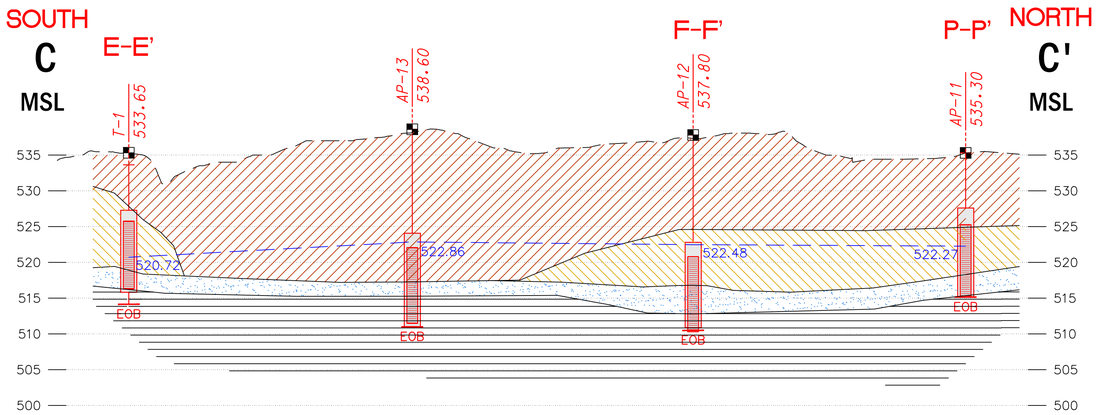
DATE: SEPTEMBER 2025

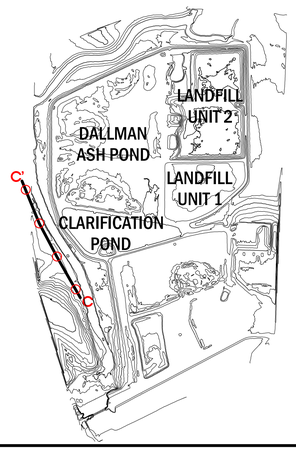
PROJECT ID: 240338/0014

SHEET NUMBER:

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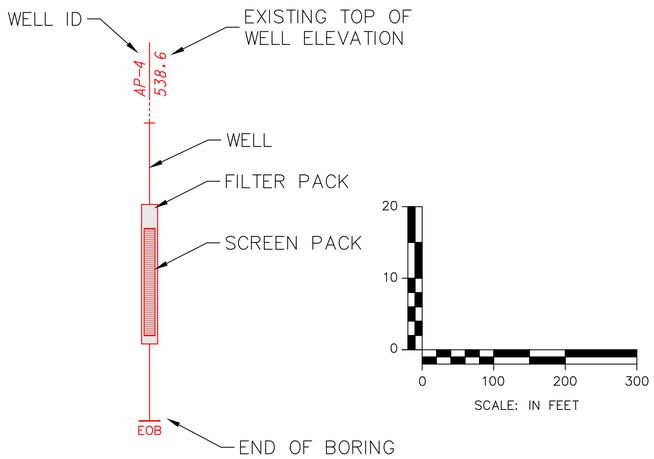


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2. SURFACE GENERATED FROM LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: MAY 16, 2023).
3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- UPPER COHESIVE DEPOSIT
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



NO.	DATE	REVISION DESCRIPTION	BY

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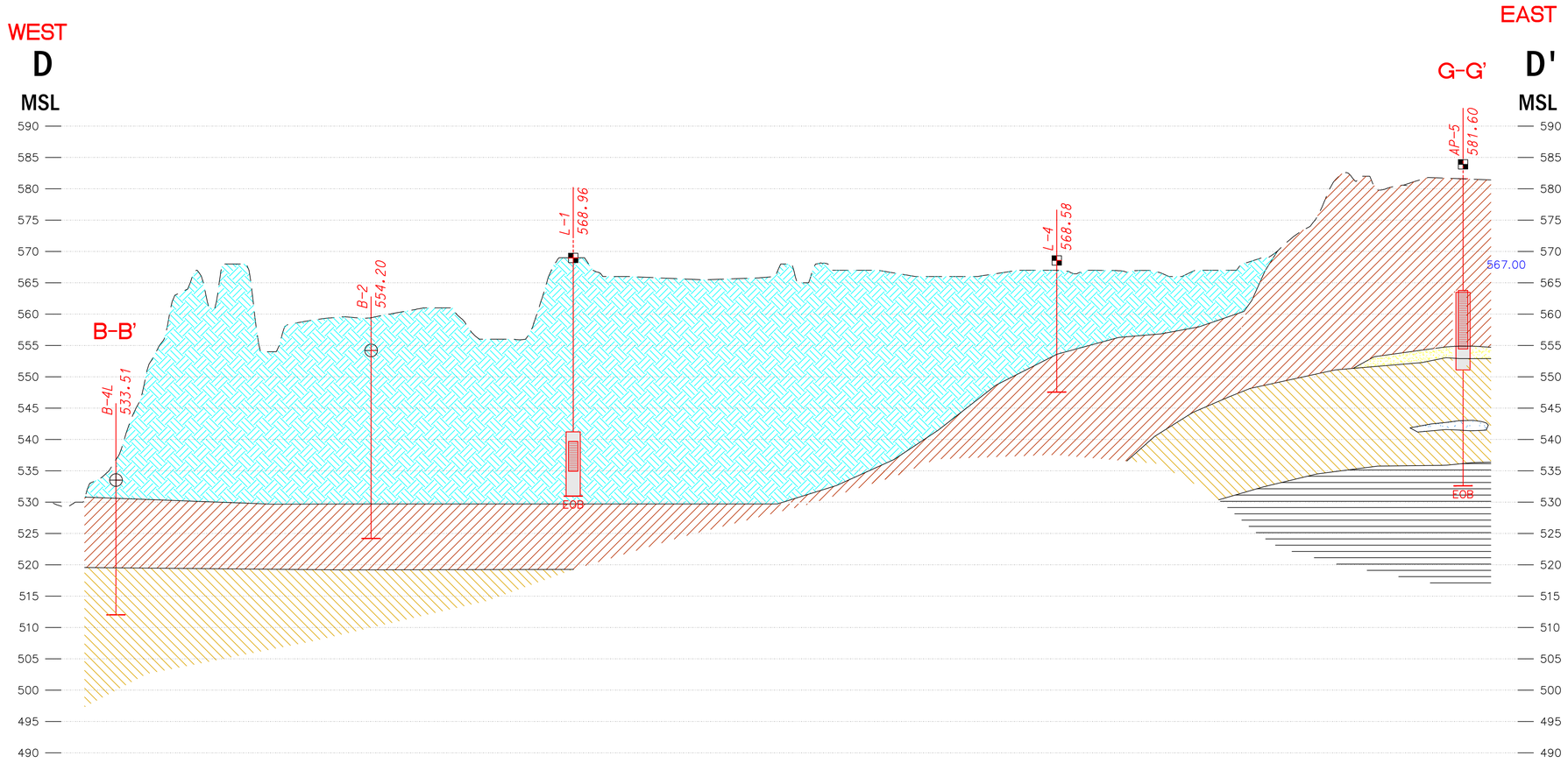
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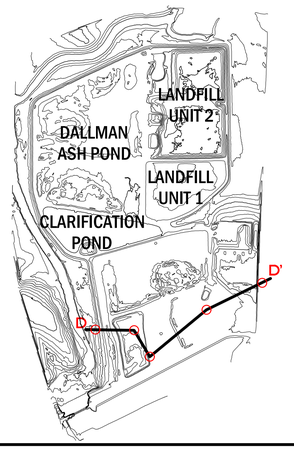
PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025
PROJECT ID: 240338/0014
SHEET NUMBER:
C-C'

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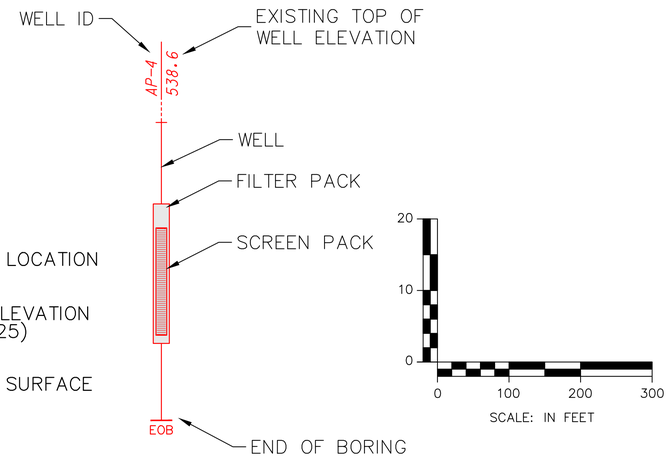


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3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- BORING LOCATION
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



NO.	DATE	REVISION DESCRIPTION	BY

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APPROVED BY: MTH | DESIGNED BY: MTH | DRAWN BY: BCK

GEOLOGIC CROSS-SECTION D-D'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

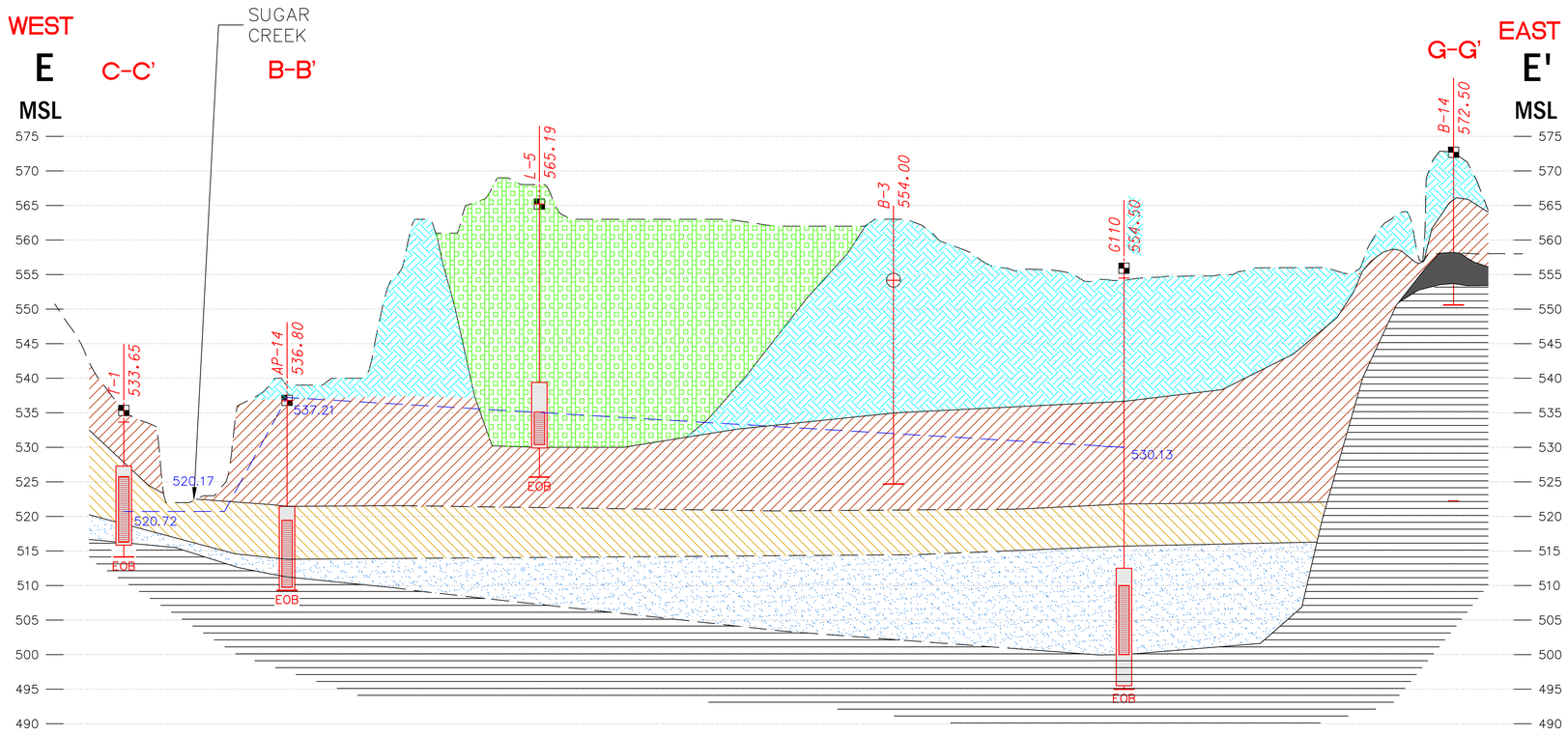
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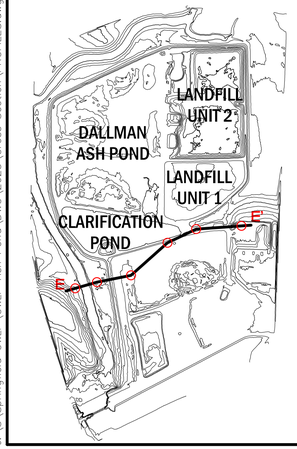
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D-D'

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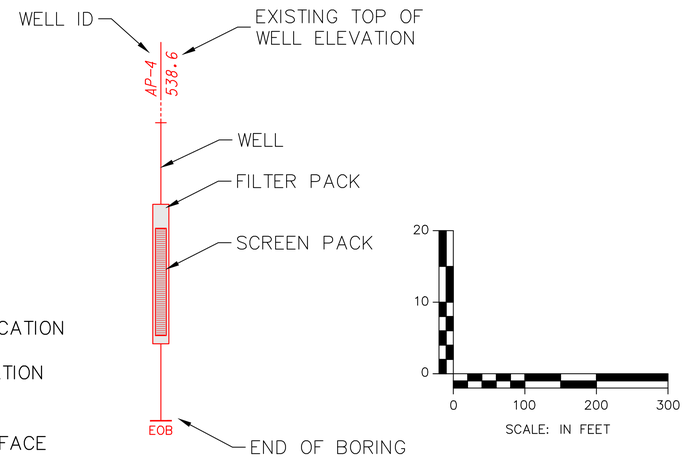


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3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- CCR ASH
- COAL
- BORING LOCATION
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



NO.	DATE	REVISION DESCRIPTION	BY

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3300 GINGER CREEK DRIVE
SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 WWW.ANDREWS-ENG.COM
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DESIGNED BY: MTH | DRAWN BY: BCK | APPROVED BY: MTH

GEOLOGIC CROSS-SECTION E-E'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

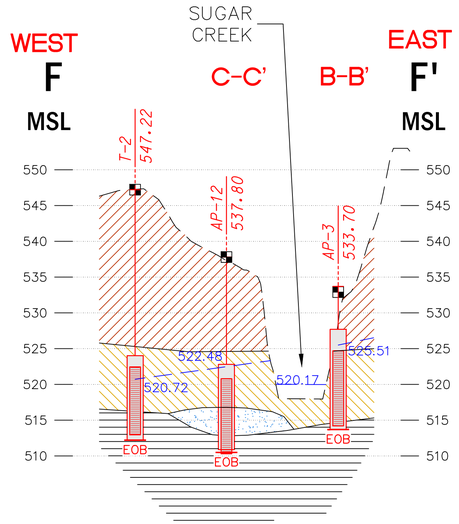
PROJECT ID: 240338/0014

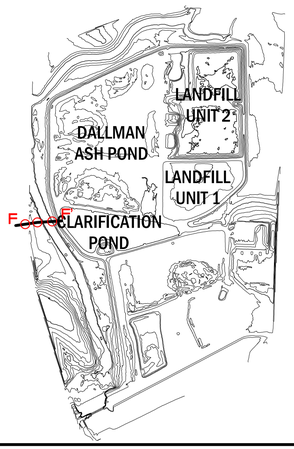
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E-E'

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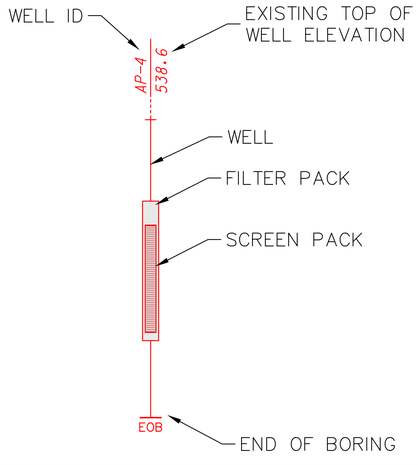


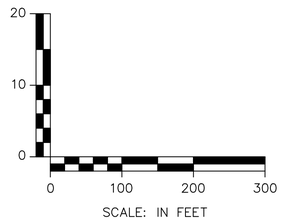
NOTES

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2. SURFACE GENERATED FROM LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: MAY 16, 2023).
3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE





NO.	DATE	REVISION DESCRIPTION	BY

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SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 WWW.ANDREWS-ENG.COM
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DESIGNED BY: MTH | DRAWN BY: BCK | APPROVED BY: MTH

GEOLOGIC CROSS-SECTION F-F'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE:
SEPTEMBER 2025

PROJECT ID:
240338/0014

SHEET NUMBER:

F-F'

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Tab: FF Last Saved: September 23, 2025, by Mike Nguyen Plotted: Tuesday, September 23, 2025 10:16:19 AM
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SOUTH

G

MSL

D-D'

E-E'

I-I'

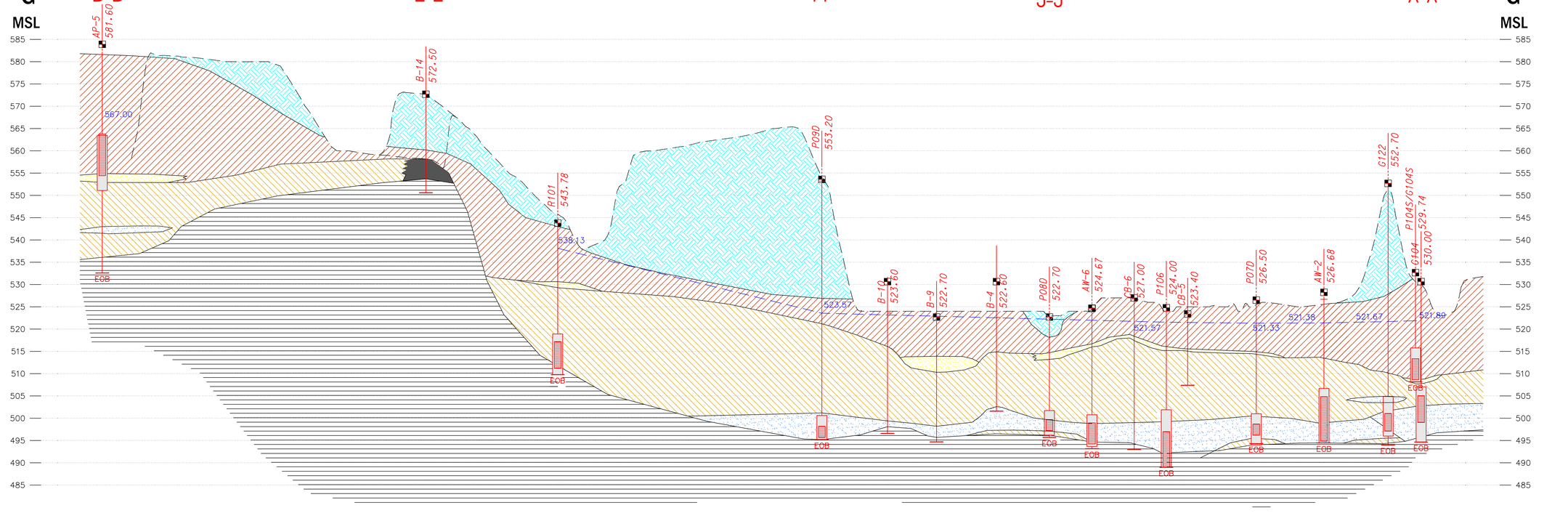
J-J'

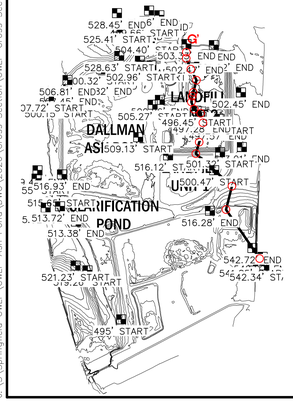
A-A'

G'

NORTH

MSL





NOTES

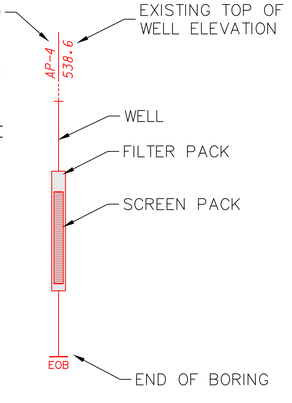
1. DEPTH AND THICKNESS OF SUBSURFACE STRATA WERE GENERALIZED FROM AND INTERPOLATED BETWEEN BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE BORING. SEE BORING LOGS FOR DETAILED DESCRIPTION.
2. SURFACE GENERATED FROM LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: MAY 16, 2023).
3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

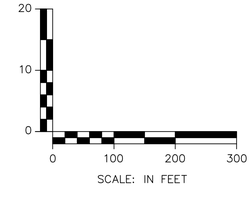
LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- COAL
- MONITORING WELL LOCATION

525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)

BASAL SAND POTENTIOMETRIC SURFACE





NO.	DATE	REVISION DESCRIPTION	BY

ANDREWS ENGINEERING
a Geo-Logic Company
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SPRINGFIELD, ILLINOIS 62711-7233
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APPROVED BY: MTH | DESIGNED BY: MTH | DRAWN BY: BCK

CROSS-SECTION G-G'

PLANS PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2026

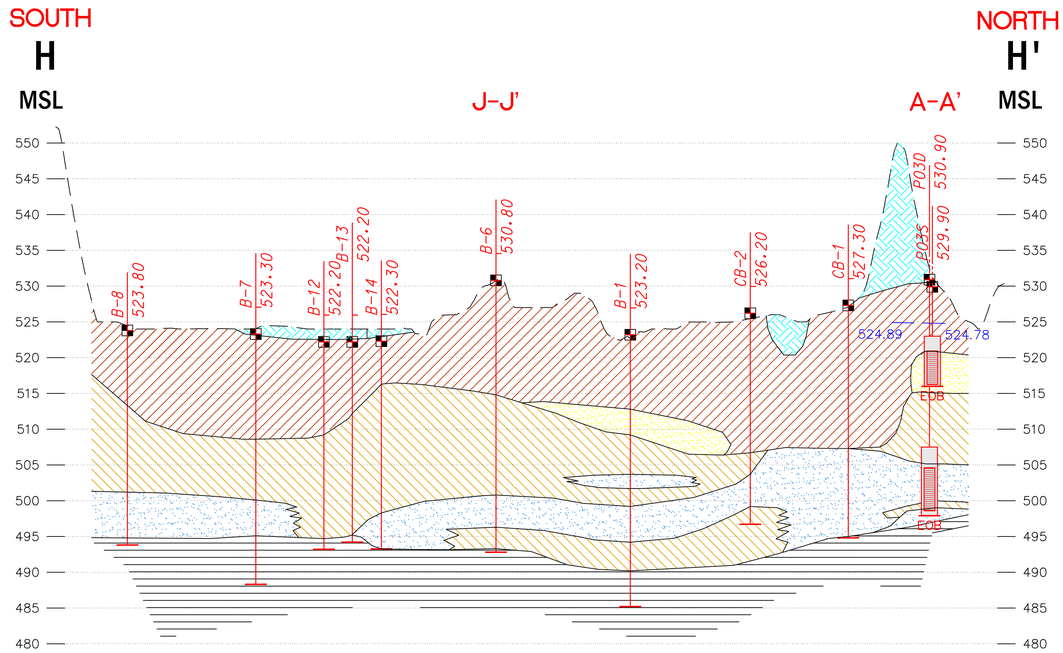
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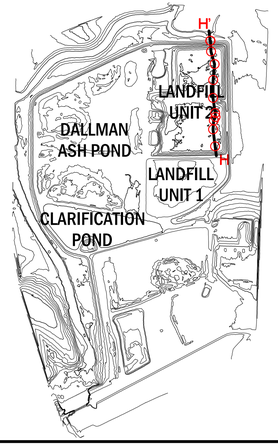
SHEET NUMBER:

G-G'

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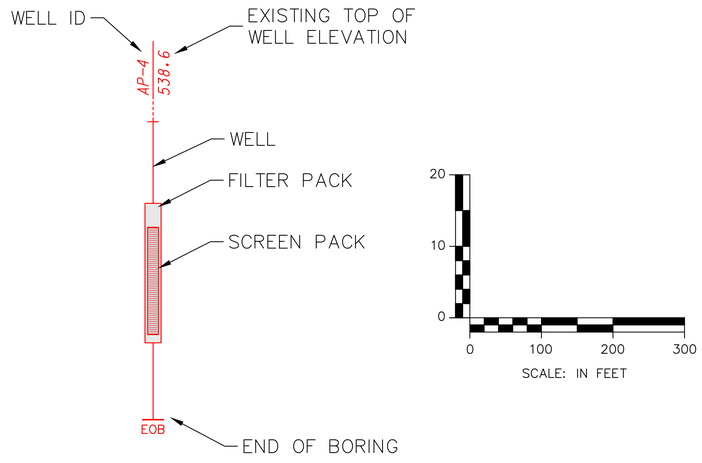


NOTES

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3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



NO.	DATE	REVISION DESCRIPTION	BY

ANDREWS ENGINEERING
3300 GINGER CREEK DRIVE
SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 WWW.ANDREWS-ENG.COM
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APPROVED BY: MTH | DESIGNED BY: MTH | DRAWN BY: BCK

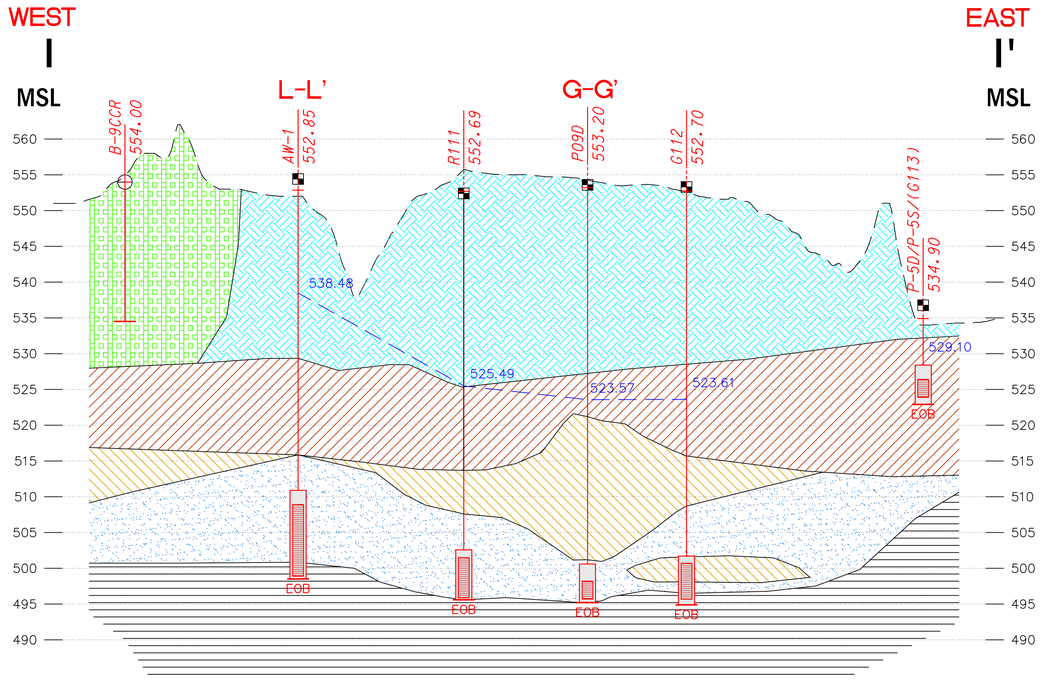
GEOLOGIC CROSS-SECTION H-H'

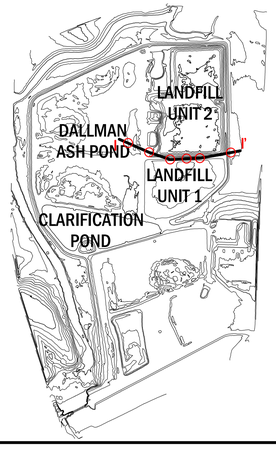
PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025
PROJECT ID: 240338/0014
SHEET NUMBER: H-H'

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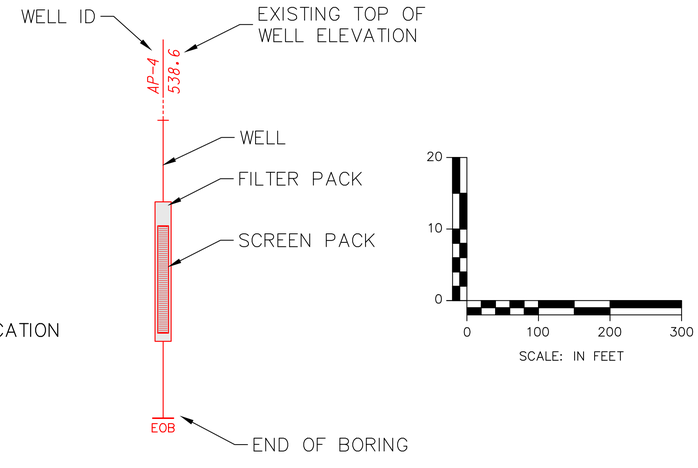


NOTES

1. DEPTH AND THICKNESS OF SUBSURFACE STRATA WERE GENERALIZED FROM AND INTERPOLATED BETWEEN BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE BORING. SEE BORING LOGS FOR DETAILED DESCRIPTION.
2. SURFACE GENERATED FROM LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: MAY 16, 2023).
3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE
- BASAL SAND
- SHALE
- CCR ASH
- BORING LOCATION
- MONITORING WELL LOCATION



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DESIGNED BY: MTH | DRAWN BY: BCK | CHECKED BY: MTH | APPROVED BY: MTH

GEOLOGIC CROSS-SECTION I-I'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

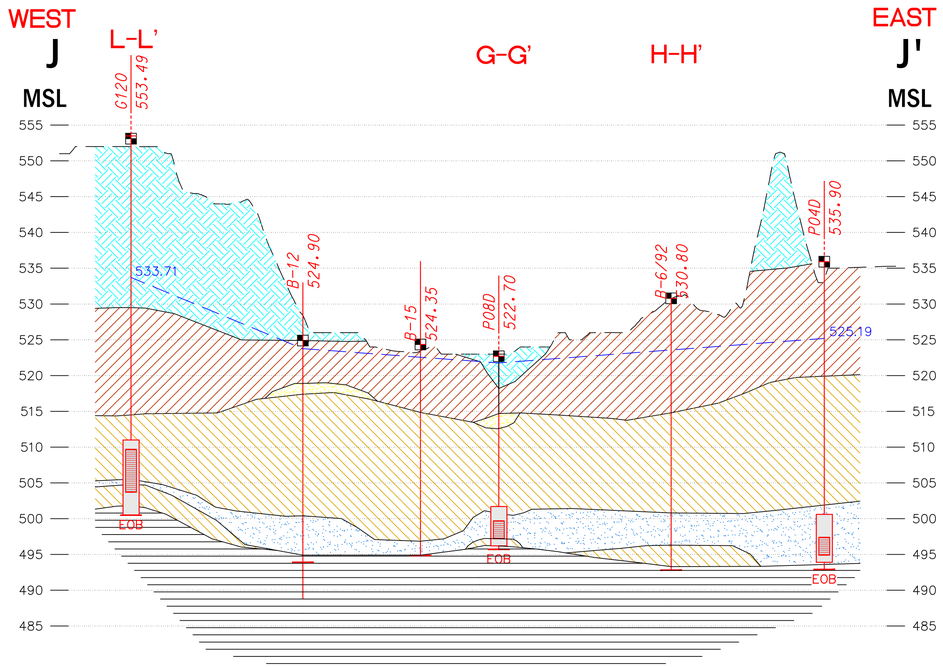
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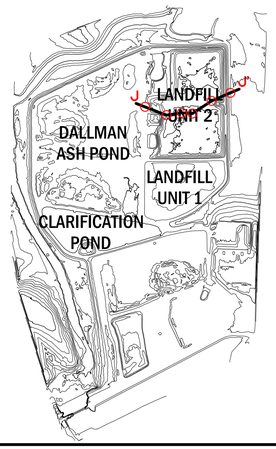
SHEET NUMBER:

I-I'

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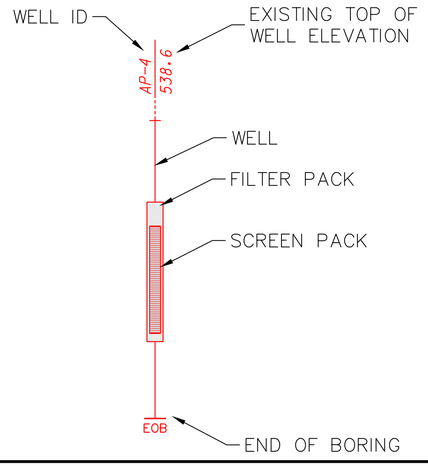


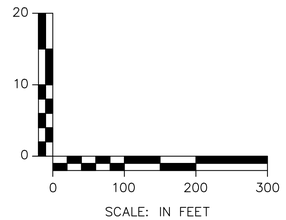
NOTES

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3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE





NO.	DATE	REVISION DESCRIPTION	BY

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GEOLOGIC CROSS-SECTION J-J'

PREPARED FOR
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SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

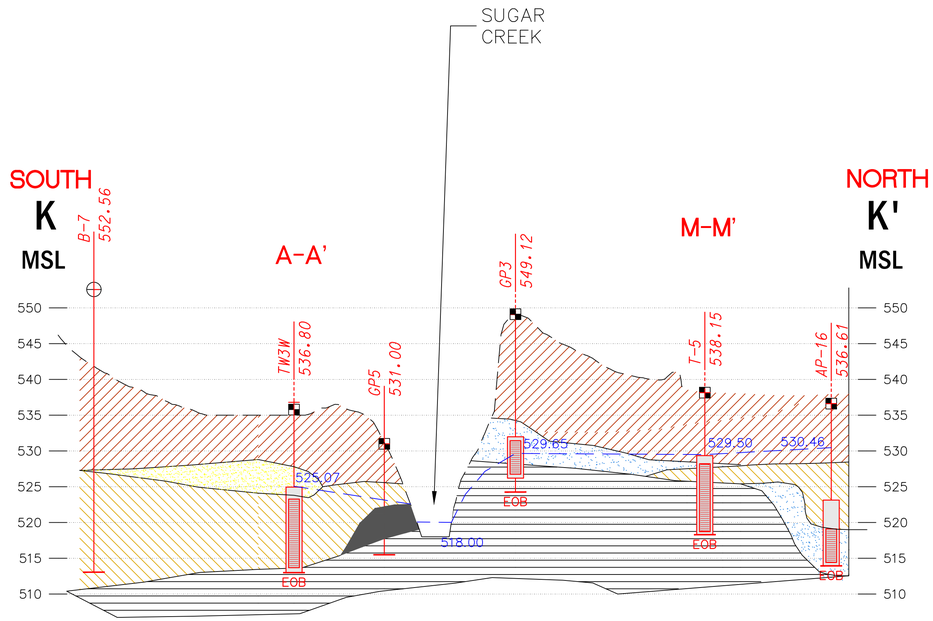
PROJECT ID: 240338/0014

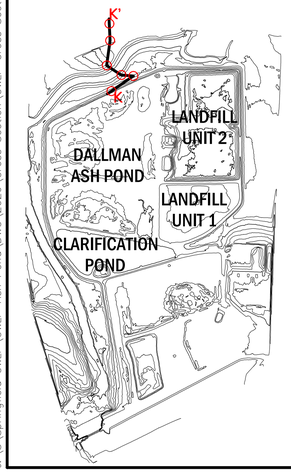
SHEET NUMBER:

J-J'

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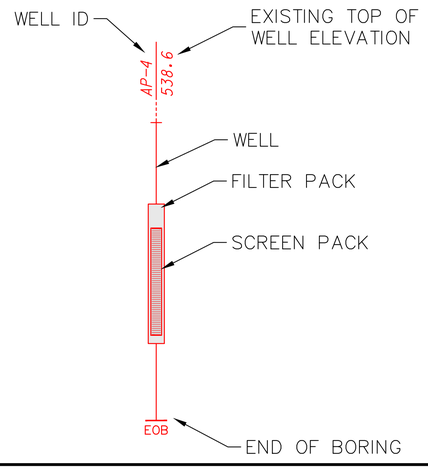


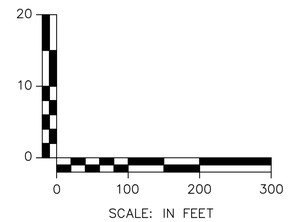
NOTES

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3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- UPPER COHESIVE DEPOSIT
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- COAL
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE





NO.	DATE	REVISION DESCRIPTION	BY

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DESIGNED BY: MTH | DRAWN BY: BCK | APPROVED BY: MTH

GEOLOGIC CROSS-SECTION K-K'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

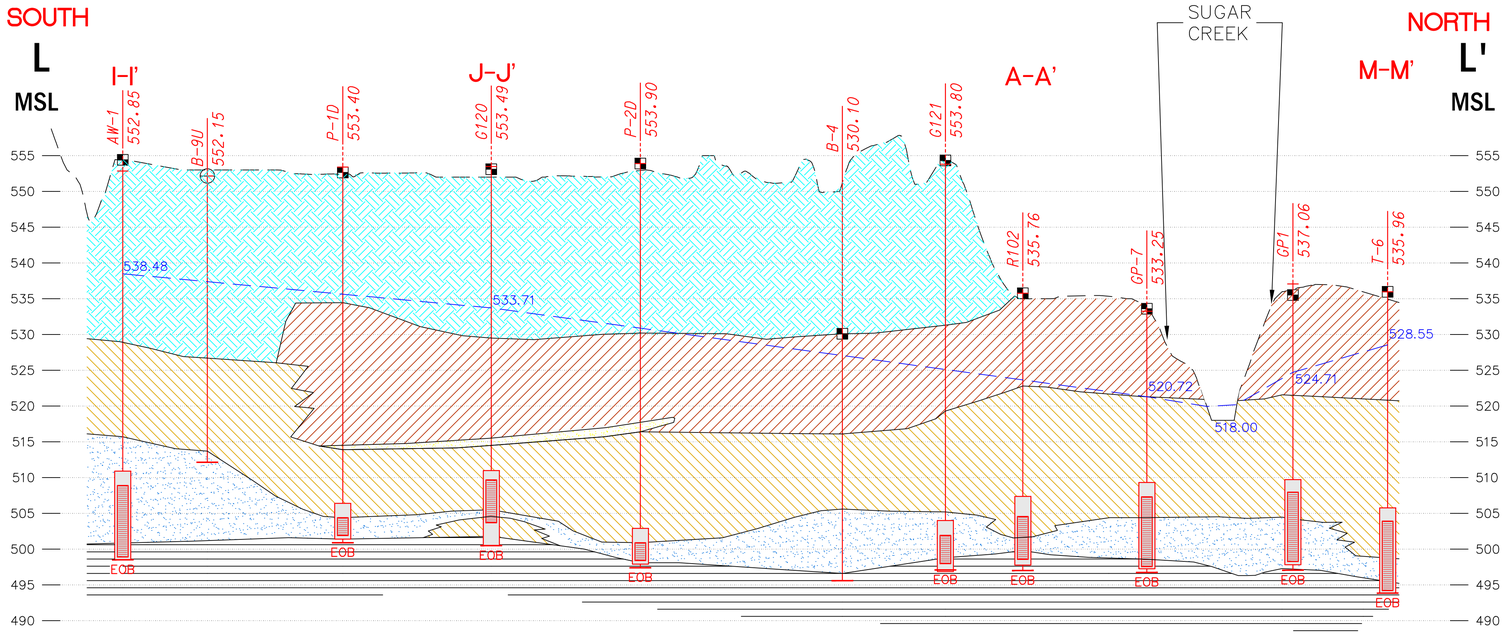
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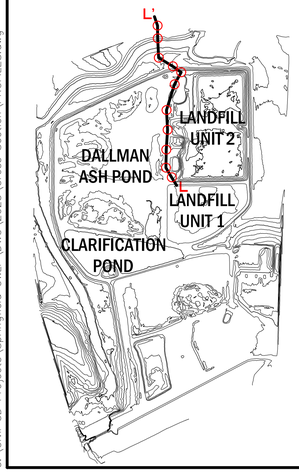
SHEET NUMBER:

K-K'

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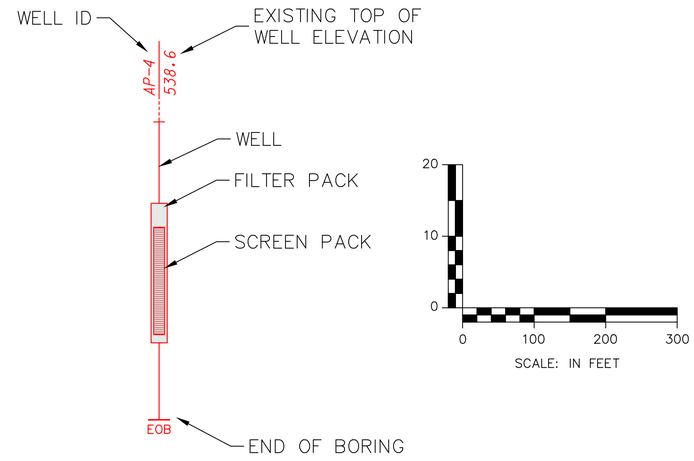


NOTES

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3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALLOW SAND
- SHALE
- BORING LOCATION
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



NO.	DATE	REVISION DESCRIPTION	BY

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DESIGNED BY: MTH | DRAWN BY: BCK | APPROVED BY: MTH

GEOLOGIC CROSS-SECTION L-L'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

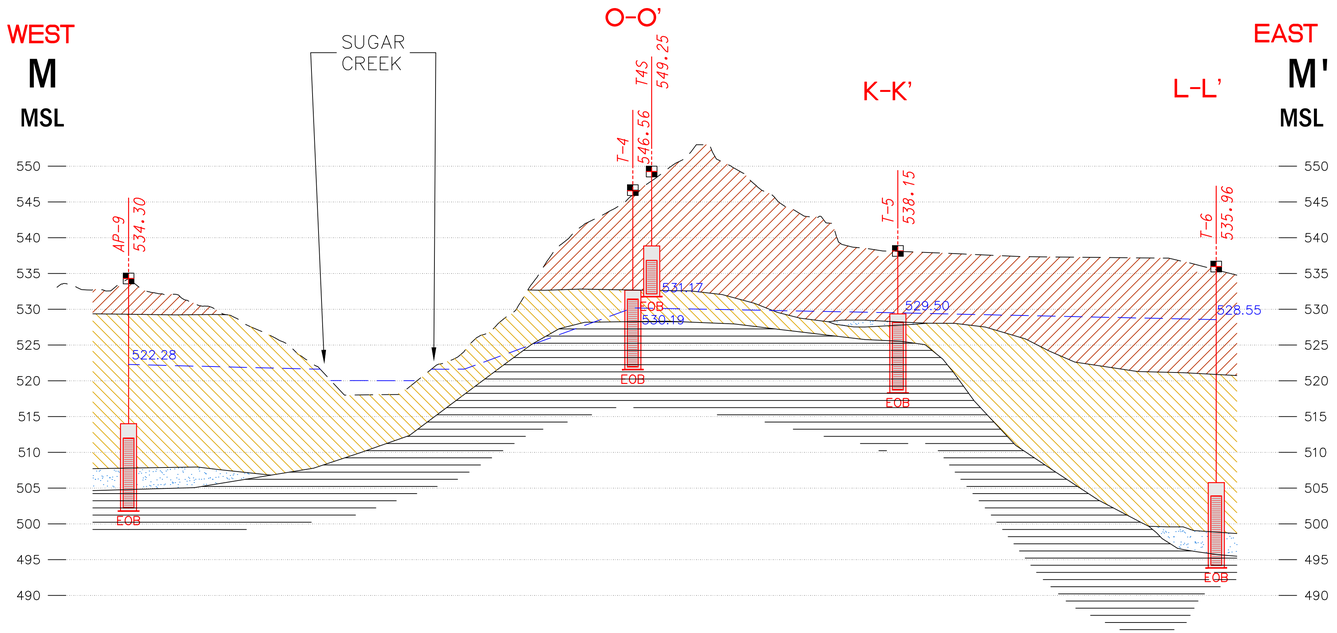
PROJECT ID: 240338/0014

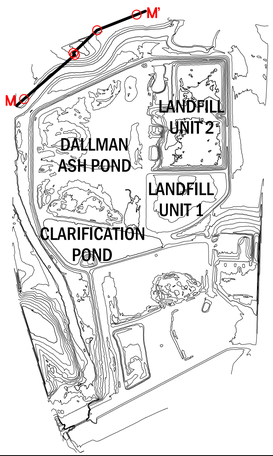
SHEET NUMBER:

L-L'

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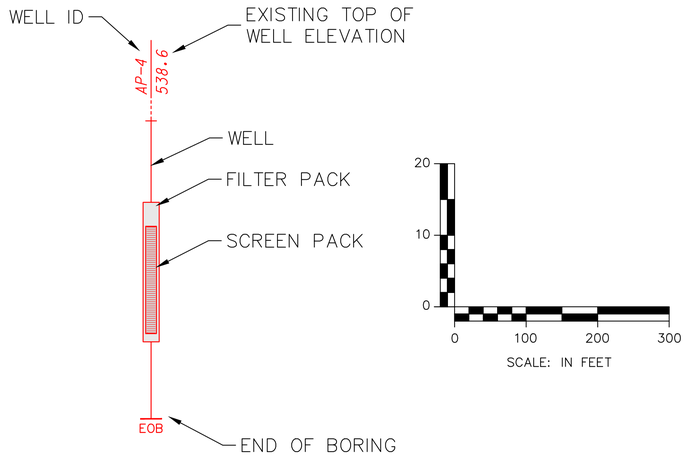


NOTES

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3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- UPPER COHESIVE DEPOSIT
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- MONITORING WELL LOCATION
- 525.00 — GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



NO.	DATE	REVISION DESCRIPTION	BY

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GEOLOGIC CROSS-SECTION M-M'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

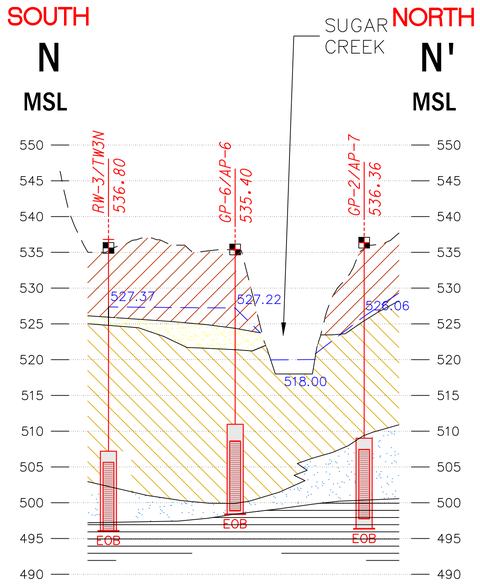
PROJECT ID: 240338/0014

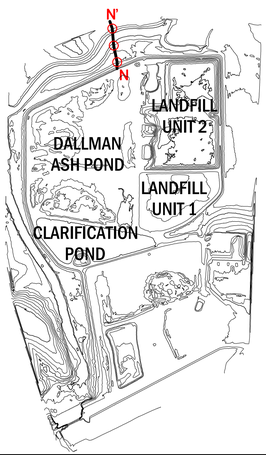
SHEET NUMBER:

M-M'

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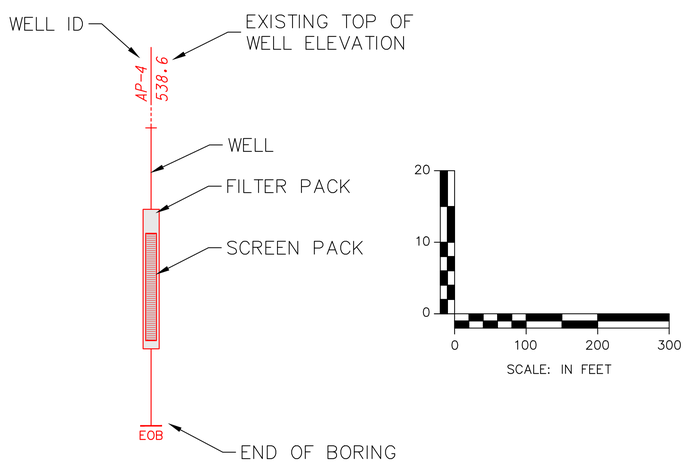


NOTES

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3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



NO.	DATE	REVISION DESCRIPTION	BY

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GEOLOGIC CROSS-SECTION N-N'

PREPARED FOR
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SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

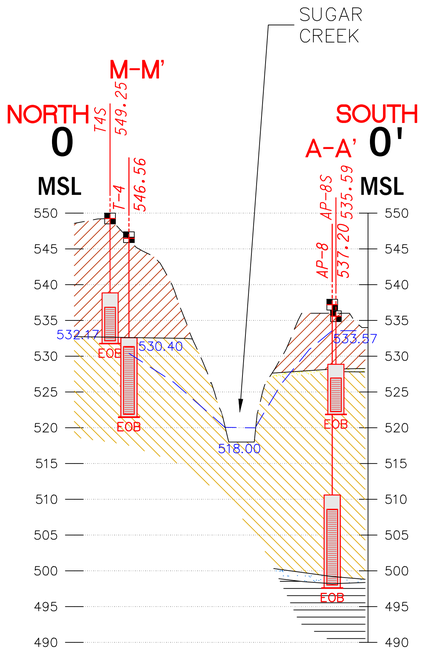
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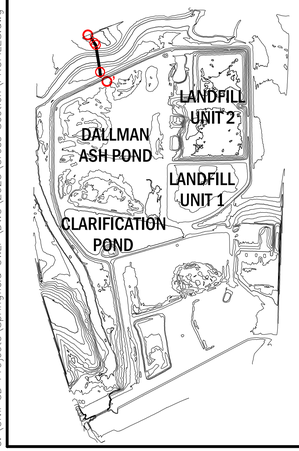
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N-N'

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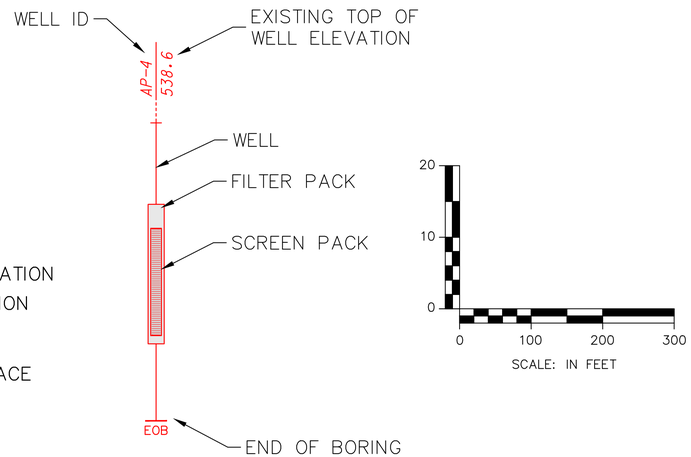


NOTES

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LEGEND

- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- BORING LOCATION
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



NO.	DATE	REVISION DESCRIPTION	BY

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PH (217) 787-2334 WWW.ANDREWS-ENG.COM
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GEOLOGIC CROSS-SECTION O-O'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

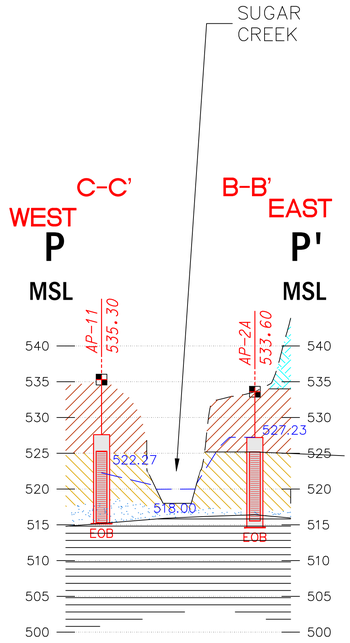
PROJECT ID: 240338/0014

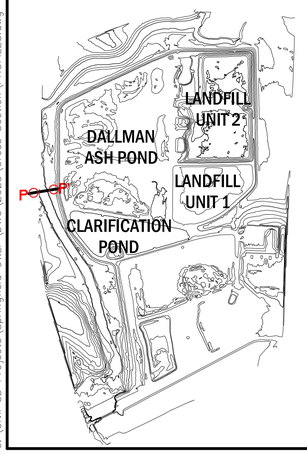
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O-O'

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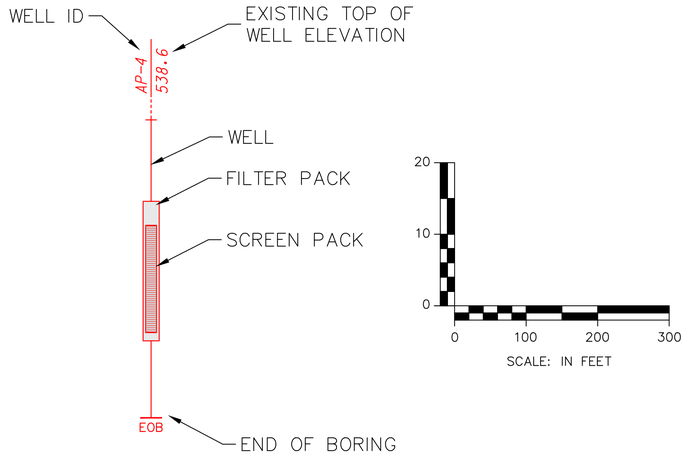


NOTES

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LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE



NO.	DATE	REVISION DESCRIPTION	BY

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SPRINGFIELD, ILLINOIS 62711-7233
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DESIGNED BY: MTH | DRAWN BY: BCK | APPROVED BY: MTH

GEOLOGIC CROSS-SECTION P-P'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2025

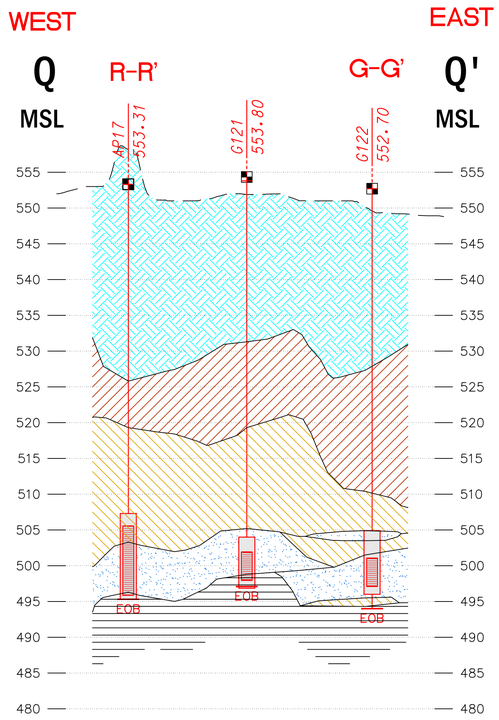
PROJECT ID: 240338/0014

SHEET NUMBER:

P-P'

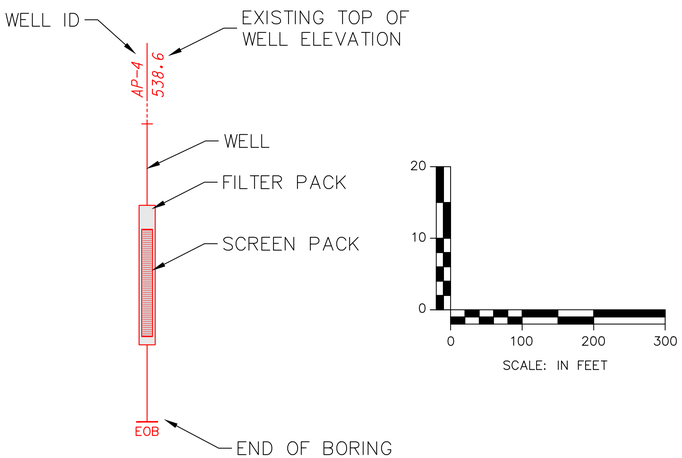
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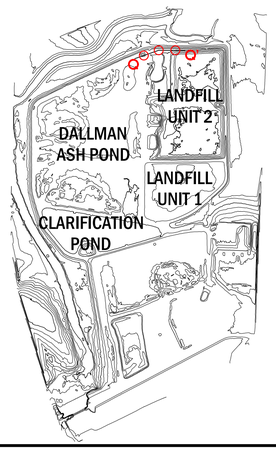
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C:\Civil 3D Projects\Springfield CWLP\DWG\2025\Cross Section\PROFILES.dwg



LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE





NOTES

1. DEPTH AND THICKNESS OF SUBSURFACE STRATA WERE GENERALIZED FROM AND INTERPOLATED BETWEEN BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE BORING. SEE BORING LOGS FOR DETAILED DESCRIPTION.
2. SURFACE GENERATED FROM LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: MAY 16, 2023).
3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

NO.	DATE	REVISION DESCRIPTION	BY

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DESIGNED BY: MTH | DRAWN BY: BCK | CHECKED BY: MTH | APPROVED BY: MTH

CROSS-SECTION Q-Q'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2026

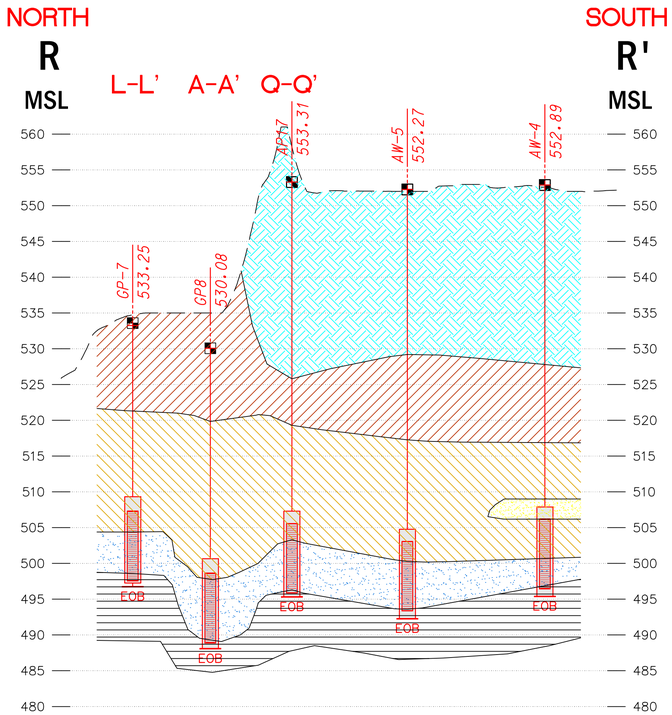
PROJECT ID: 4926.1207.00

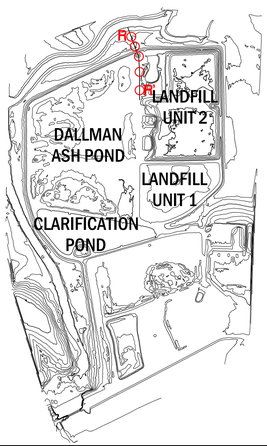
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Q-Q'

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Tab: QQ Last Saved: September 28, 2026, by Ben Karpus Plotted: Monday, September 28, 2026 12:01:23 PM
J:\S\Springfield CWLP\CWLP Ash Pond\DWG\2026\Cross Section\CWLP Cross Sections.dwg



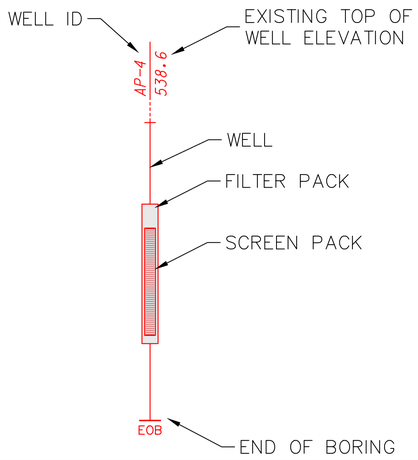


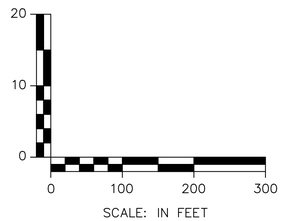
NOTES

1. DEPTH AND THICKNESS OF SUBSURFACE STRATA WERE GENERALIZED FROM AND INTERPOLATED BETWEEN BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE BORING. SEE BORING LOGS FOR DETAILED DESCRIPTION.
2. SURFACE GENERATED FROM LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: MAY 16, 2023).
3. WELL/BORING SYMBOL PLACED AT SURFACE ELEVATION AT THE TIME THE BORING WAS COMPLETED.

LEGEND

- FILL
- UPPER COHESIVE DEPOSIT
- SHALLOW SAND
- LOWER COHESIVE DEPOSIT
- BASAL SAND
- SHALE
- MONITORING WELL LOCATION
- 525.00 GROUNDWATER ELEVATION (AUGUST 21, 2025)
- BASAL SAND POTENTIOMETRIC SURFACE





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CROSS-SECTION R-R'

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: SEPTEMBER 2026

PROJECT ID: 4926.1207.00

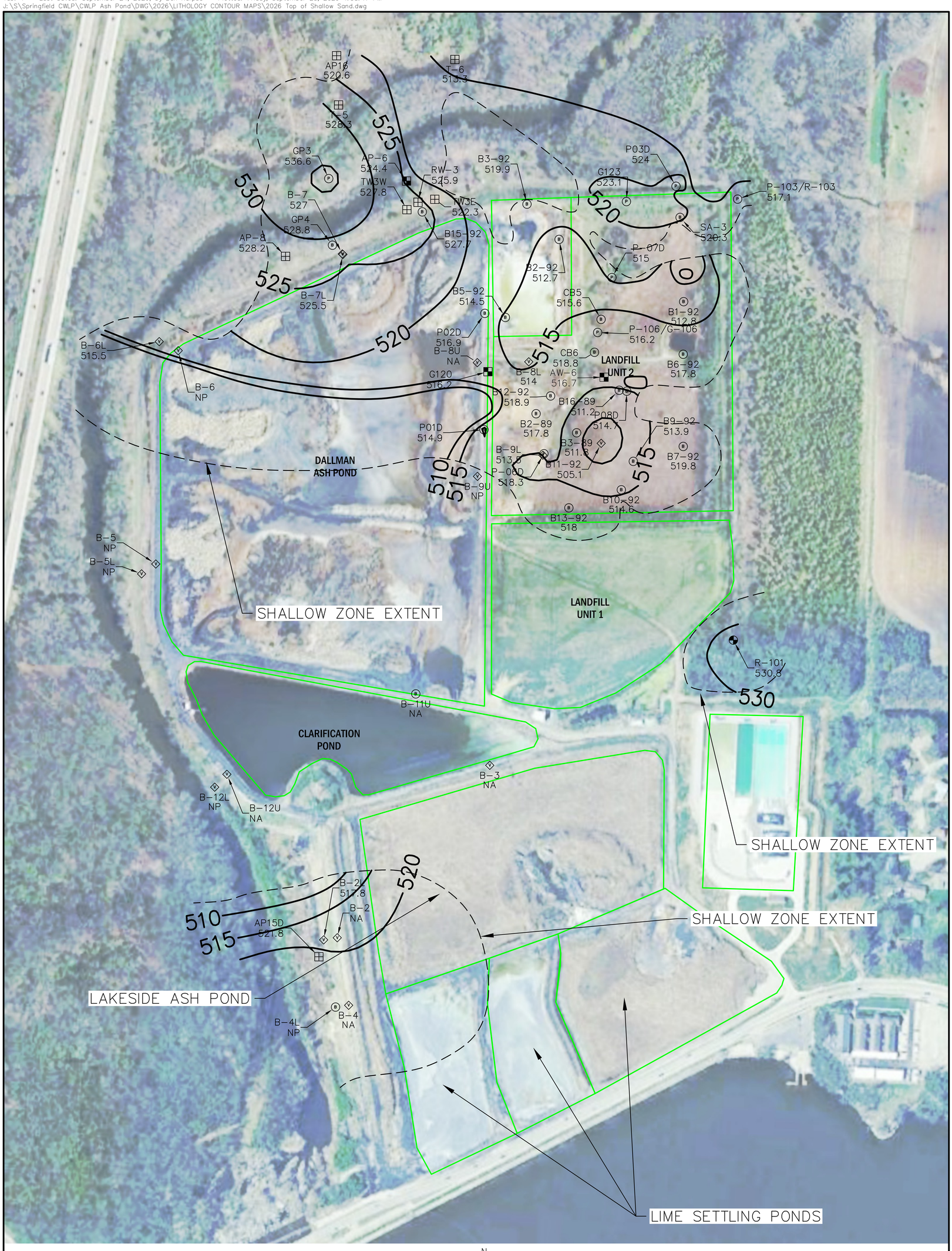
SHEET NUMBER:

R-R'

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J:\S\Springfield CWLP\CWLP Ash Pond\DWG\2026\Cross Section\CWLP Cross Sections.dwg

APPENDIX E:
UNIT SURFACES AND ISOPACHS



N

0 150 300 600

SCALE: IN FEET

LEGEND

POND/LANDFILL BOUNDARY

510 ELEVATION CONTOURS

NOTE

1. AERIAL IMAGE FROM APRIL 7, 2024, FROM GOOGLE EARTH.
2. CONTOUR INTERVAL = 5 FT

FIG. 1

SHEET NUMBER:

PROJECT ID: 4926.1207.00

DATE: AUGUST 2026

2026 TOP OF SHALLOW SAND

PREPARED FOR

CITY WATER, LIGHT, AND POWER

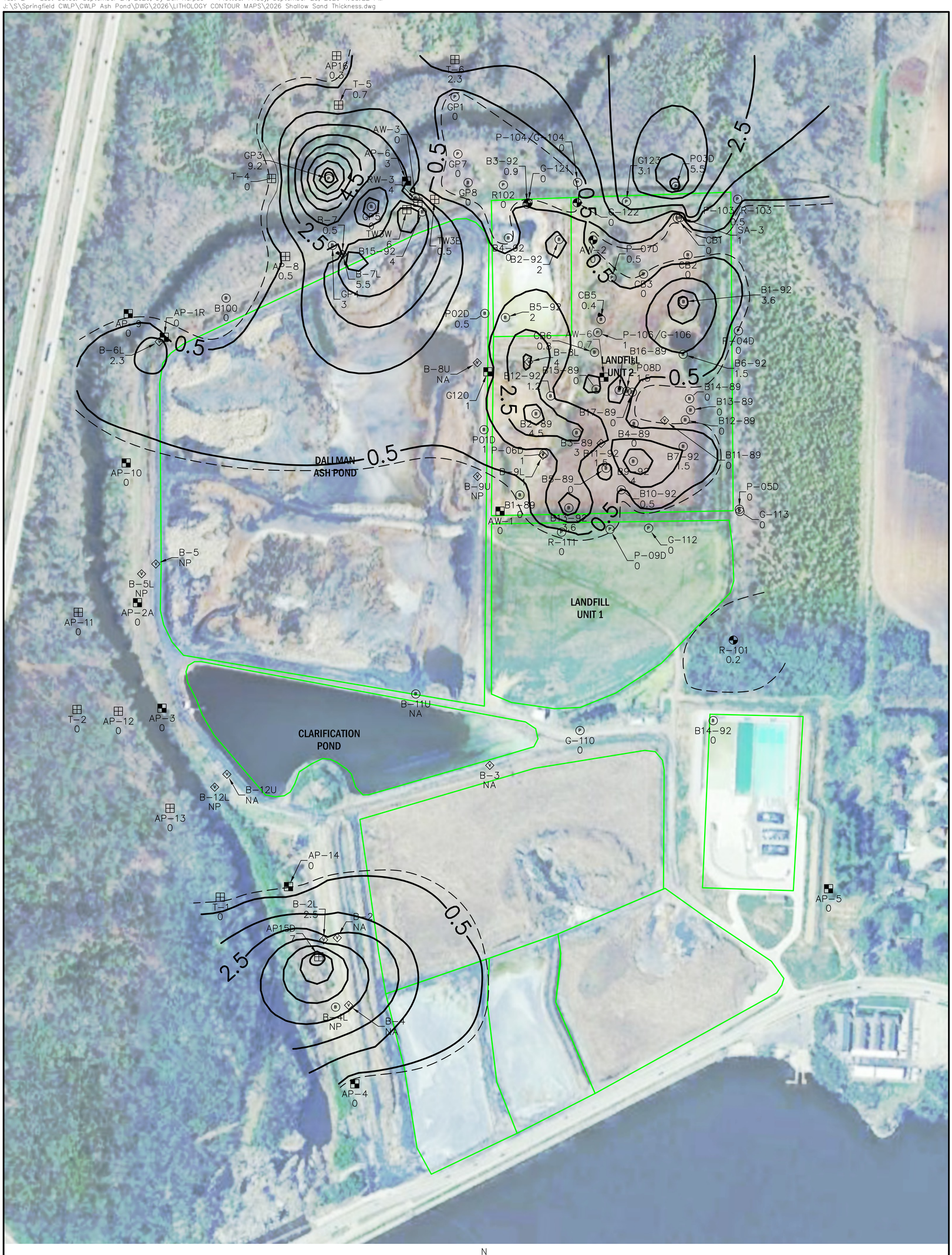
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LEGEND

POND/LANDFILL BOUNDARY

510 THICKNESS CONTOURS

N

0 150 300 600

SCALE: IN FEET

NOTE

1. AERIAL IMAGE FROM APRIL 7, 2024, FROM GOOGLE EARTH.
2. CONTOUR INTERVAL = 5 FT

FIG. 2

SHEET NUMBER:

PROJECT ID: 4926.1207.00

DATE: AUGUST 2026

2026 SHALLOW SAND THICKNESS

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LEGEND

POND/LANDFILL BOUNDARY

510 ELEVATION CONTOURS

N

0 150 300 600

SCALE: IN FEET

NOTE

1. AERIAL IMAGE FROM APRIL 7, 2024, FROM GOOGLE EARTH.
2. CONTOUR INTERVAL = 5 FT

FIG. 3

SHEET NUMBER:

PROJECT ID: 4926.1207.00

DATE: AUGUST 2026

2026 TOP OF UPPER COHESIVE DEPOSIT

PREPARED FOR

CITY WATER, LIGHT, AND POWER

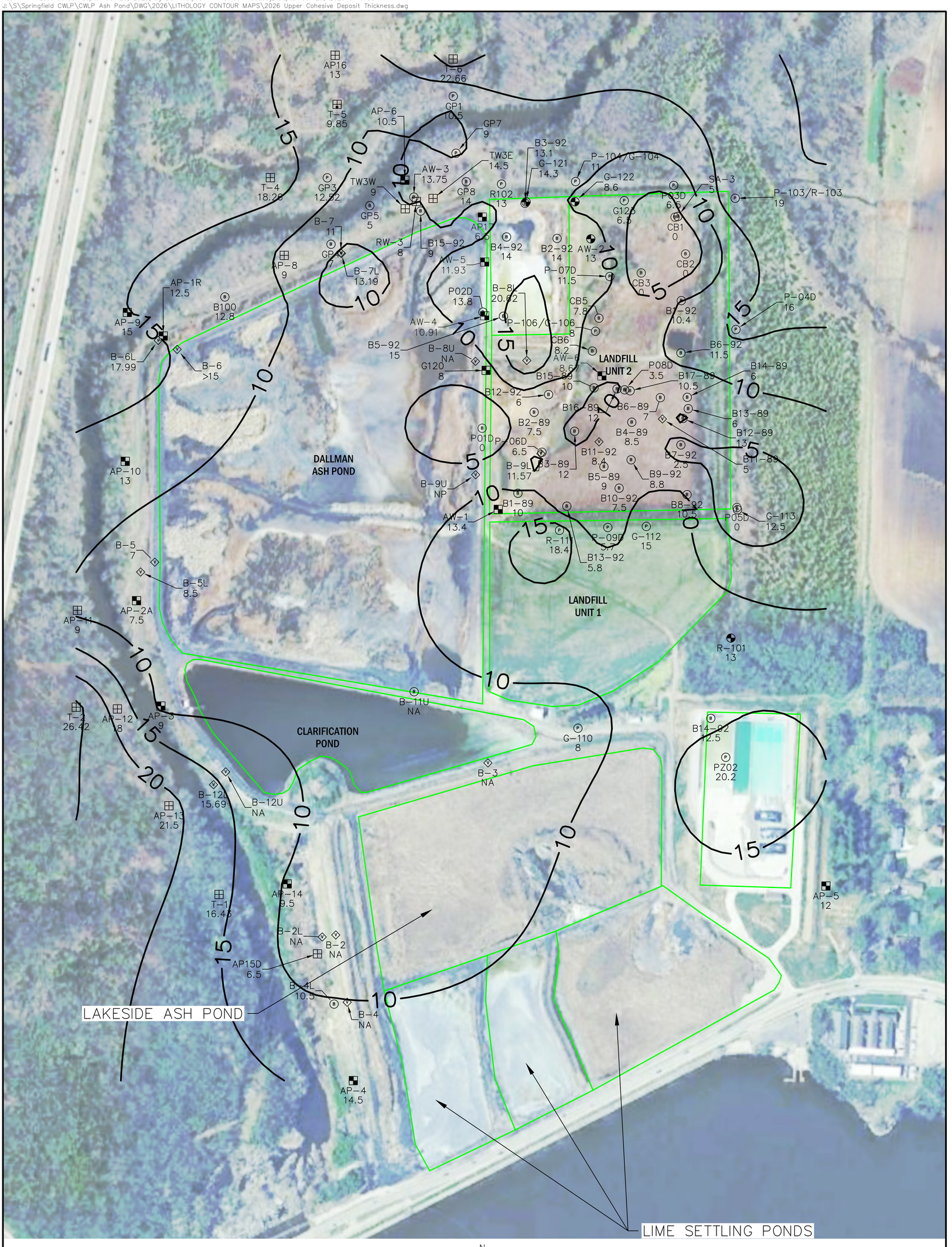
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LEGEND

POND/LANDFILL BOUNDARY

510 THICKNESS CONTOURS

NOTE

1. AERIAL IMAGE FROM APRIL 7, 2024, FROM GOOGLE EARTH.
2. CONTOUR INTERVAL = 5 FT

FIG. 4

2026 UPPER COHESIVE DEPOSIT THICKNESS

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

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N

0 150 300 600

SCALE: IN FEET

LEGEND

POND/LANDFILL BOUNDARY

510 ELEVATION CONTOURS

NOTE

1. AERIAL IMAGE FROM APRIL 7, 2024, FROM GOOGLE EARTH.
2. CONTOUR INTERVAL = 5 FT

FIG. 5

SHEET NUMBER:

PROJECT ID: 4926.1207.00

DATE: AUGUST 2026

2026 TOP OF LOWER COHESIVE DEPOSIT

PREPARED FOR

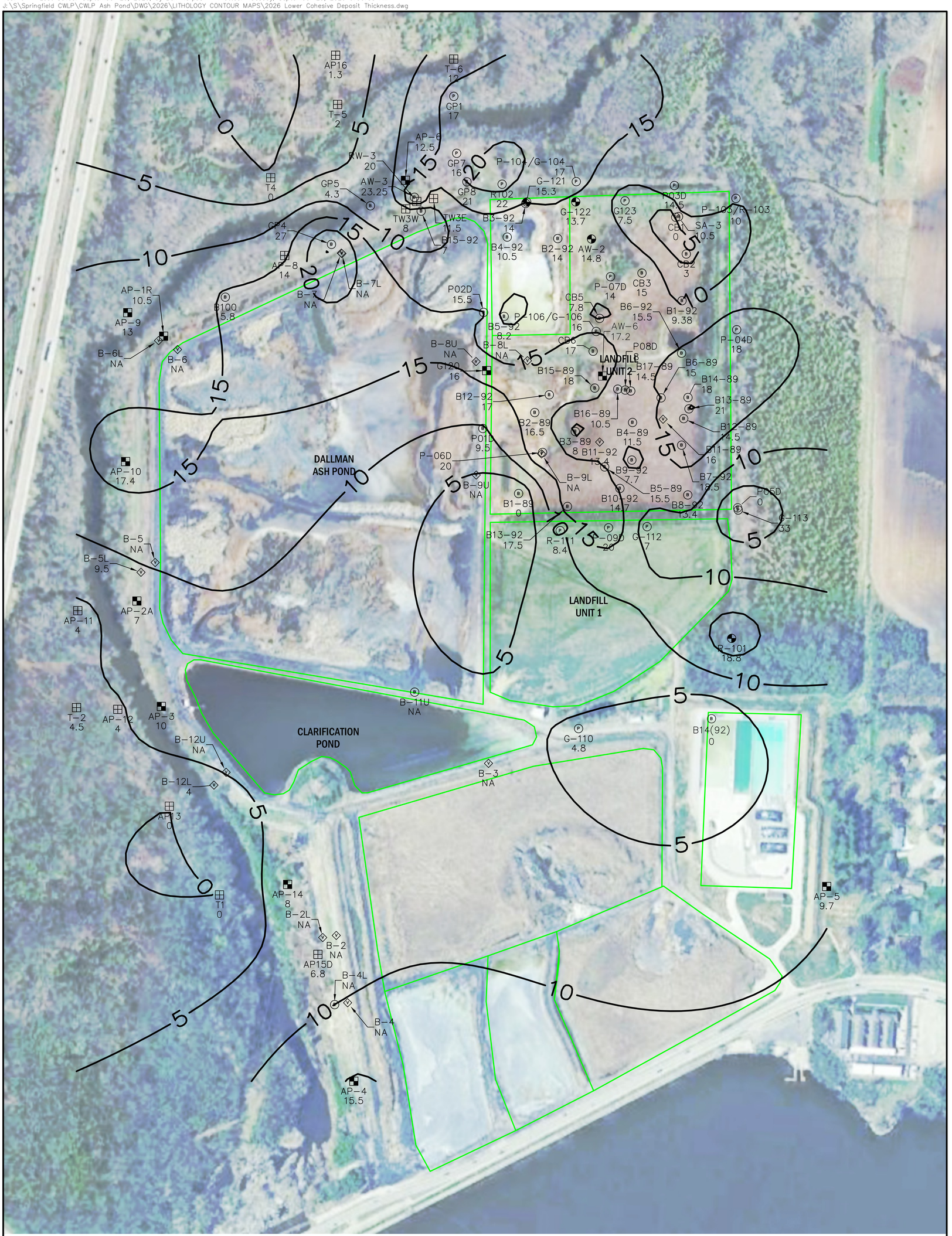
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LEGEND

POND/LANDFILL BOUNDARY

510 THICKNESS CONTOURS

N

0 150 300 600

SCALE: IN FEET

NOTE

1. AERIAL IMAGE FROM APRIL 7, 2024, FROM GOOGLE EARTH.
2. CONTOUR INTERVAL = 5 FT

FIG. 6

SHEET NUMBER:

PROJECT ID: 4926.1207.00

DATE: AUGUST 2026

2026 LOWER COHESIVE DEPOSIT THICKNESS

PREPARED FOR

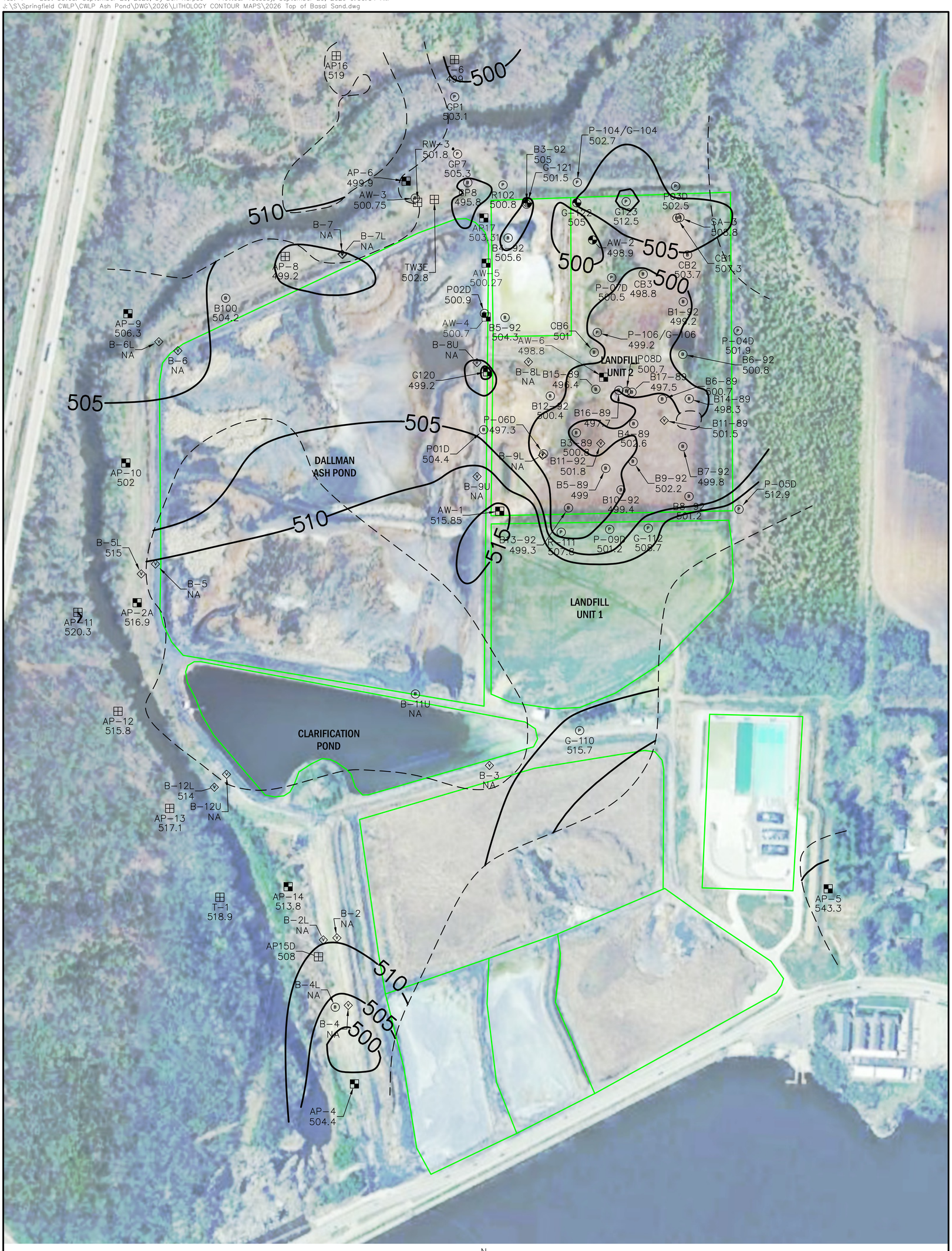
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LEGEND

POND/LANDFILL BOUNDARY

510 ELEVATION CONTOURS

N

0 150 300 600

SCALE: IN FEET

NOTE

1. AERIAL IMAGE FROM APRIL 7, 2024, FROM GOOGLE EARTH.
2. CONTOUR INTERVAL = 5 FT

FIG. 7

SHEET NUMBER:

PROJECT ID: 4926.1207.00

DATE: AUGUST 2026

2026 TOP OF BASAL SAND

PREPARED FOR

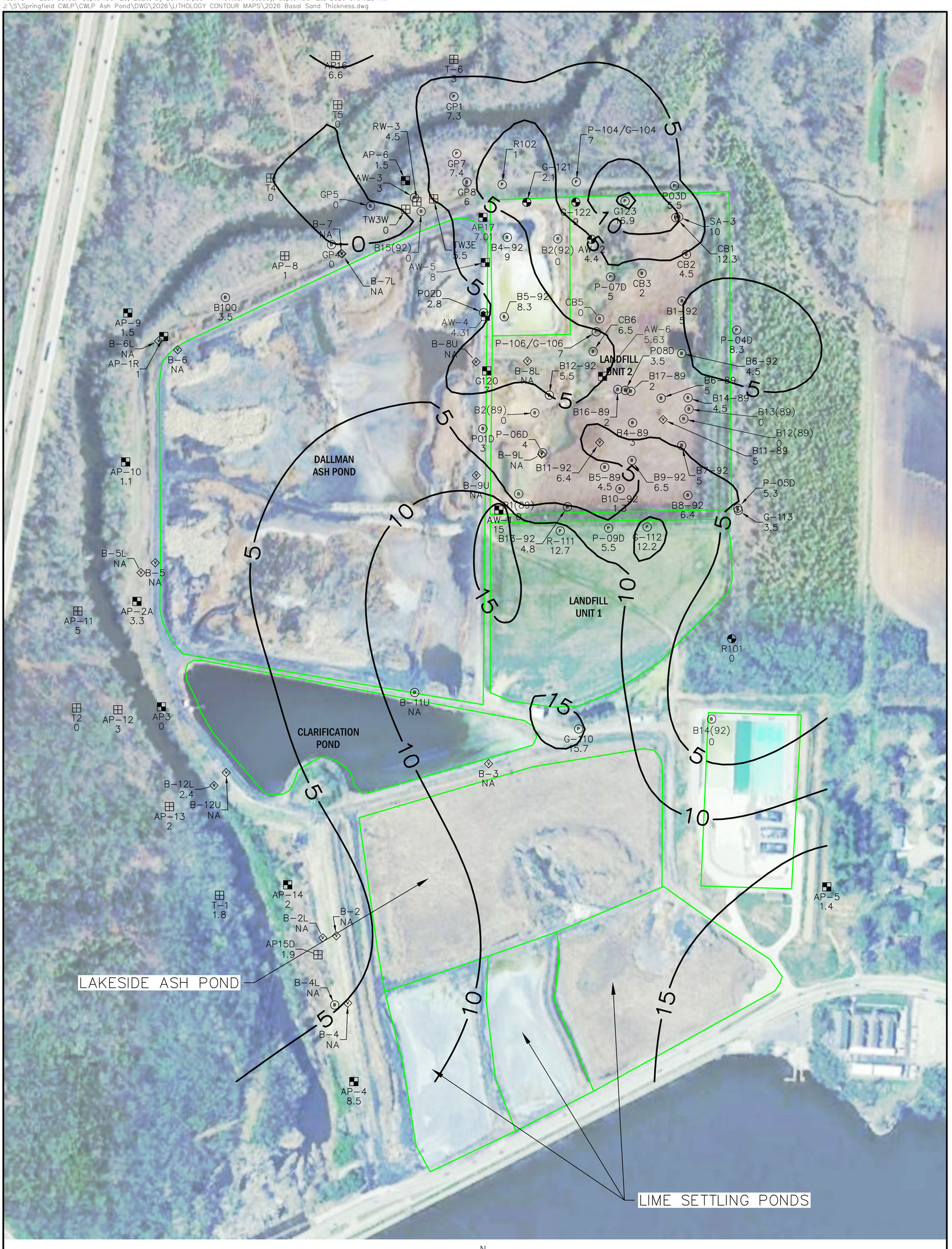
CITY WATER, LIGHT, AND POWER

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NO.	DATE	REVISION DESCRIPTION	BY



LEGEND

POND/LANDFILL BOUNDARY

510 THICKNESS CONTOURS

N

0 150 300 600

SCALE: IN FEET

NOTE

1. AERIAL IMAGE FROM APRIL 7, 2024, FROM GOOGLE EARTH.
2. CONTOUR INTERVAL = 5 FT

FIG. 8

2026 BASAL SAND THICKNESS

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: AUGUST 2026

PROJECT ID: 492E.1207.00

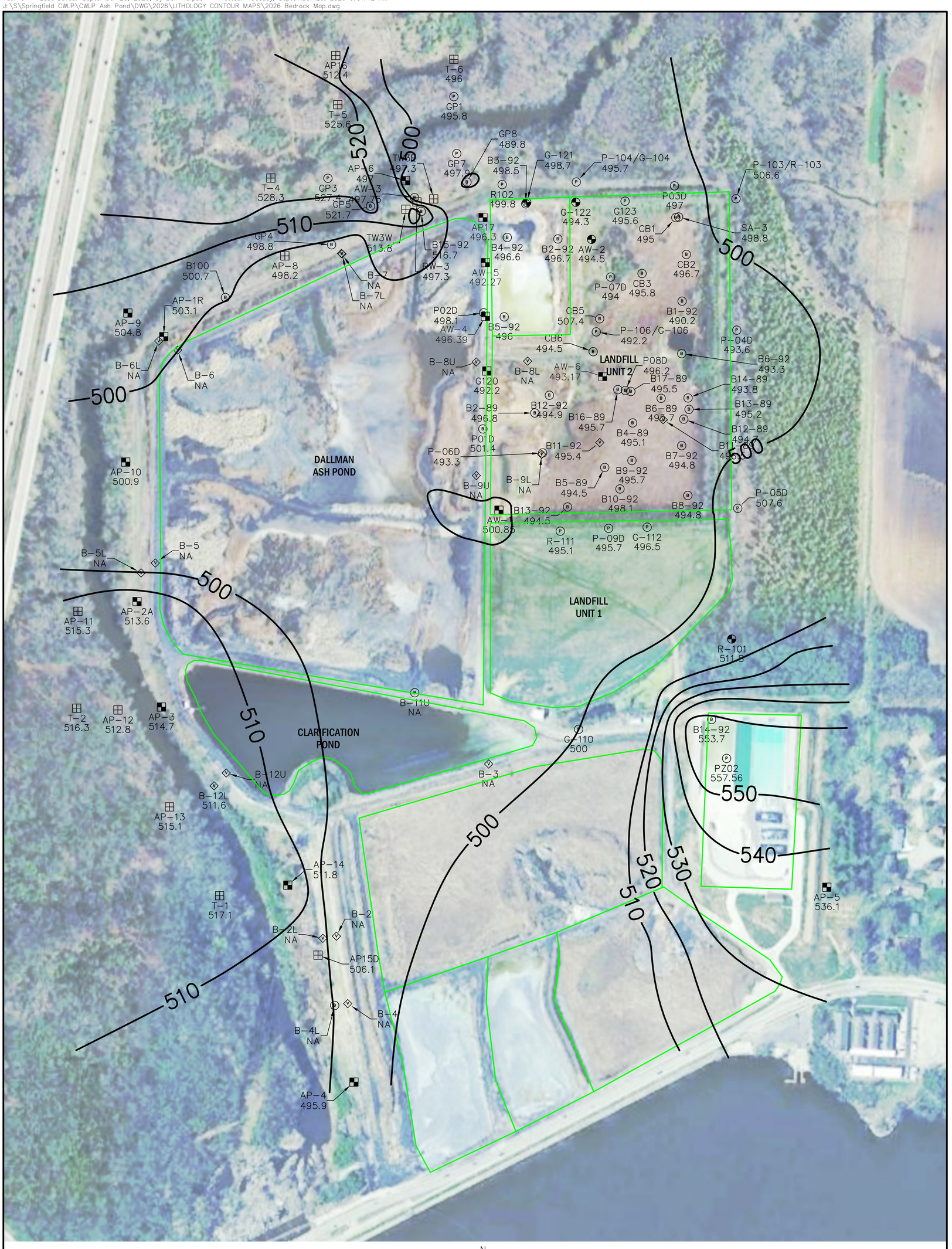
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NO.	DATE	REVISION DESCRIPTION	BY

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N

0 150 300 600

SCALE: IN FEET

LEGEND

POND/LANDFILL BOUNDARY

510 ELEVATION CONTOURS

NOTE

1. AERIAL IMAGE FROM APRIL 7, 2024, FROM GOOGLE EARTH.
2. CONTOUR INTERVAL = 10 FT

FIG. 9

2026 BEDROCK MAP

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT ID: 4926.1207.00

DATE: AUGUST 2026

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APPENDIX F:
GWSDAT INPUT DATA AND OUTPUT GRAPHICS

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data

WellName	Constituent	SampleDate	Result	Units	Flags
AP1	Arsenic, total	11/18/2016	ND<0.025	mg/l	
AP1	Arsenic, total	2/16/2017	ND<0.025	mg/l	
AP1	Arsenic, total	5/31/2017	ND<0.025	mg/l	
AP1	Arsenic, total	8/2/2017	ND<0.025	mg/l	
AP1	Arsenic, total	11/9/2017	ND<0.025	mg/l	
AP1	Arsenic, total	5/4/2018	ND<0.025	mg/l	
AP1	Arsenic, total	7/9/2018	ND<0.025	mg/l	
AP1	Arsenic, total	2/13/2019	ND<0.025	mg/l	
AP1	Arsenic, total	8/1/2019	ND<0.025	mg/l	
AP1	Arsenic, total	3/5/2020	ND<0.025	mg/l	
AP1	Arsenic, total	8/5/2020	ND<0.025	mg/l	
AP1	Arsenic, total	1/21/2021	ND<0.025	mg/l	
AP1	Arsenic, total	5/27/2021	ND<0.025	mg/l	
AP1	Arsenic, total	8/24/2021	ND<0.025	mg/l	
AP1	Arsenic, total	11/10/2021	ND<0.025	mg/l	
AP1	Arsenic, total	2/15/2022	ND<0.025	mg/l	
AP1	Arsenic, total	5/31/2022	ND<0.025	mg/l	
AP1	Arsenic, total	8/23/2022	ND<0.025	mg/l	
AP1	Arsenic, total	11/8/2022	ND<0.025	mg/l	
AP1	Arsenic, total	1/27/2023	ND<0.025	mg/l	
AP1	Arsenic, total	4/12/2023	ND<0.025	mg/l	
AP1	Arsenic, total	7/7/2023	ND<0.001	mg/l	
AP1	Arsenic, total	10/26/2023	ND<0.001	mg/l	
AP1	Arsenic, total	2/21/2024	ND<0.001	mg/l	
AP1	Arsenic, total	5/13/2024	ND<0.001	mg/l	
AP1	Arsenic, total	8/12/2024	ND<0.001	mg/l	
AP1	Arsenic, total	11/11/2024	ND<0.001	mg/l	
AP1	Arsenic, total	2/18/2025	ND<0.001	mg/l	
AP1	Arsenic, total	5/28/2025	ND<0.001	mg/l	
AP1	Arsenic, total	8/12/2025	ND<0.001	mg/l	
AP1	Arsenic, total	11/13/2025	ND<0.001	mg/l	
AP1	Arsenic, total	2/12/2026	ND<0.001	mg/l	
AP1	Arsenic, total	4/22/2026	0.003	mg/l	
AP1	Arsenic, total	7/27/2026	ND<0.001	mg/l	
AP10	Arsenic, total	5/26/2021	ND<0.025	mg/l	
AP10	Arsenic, total	6/22/2021	ND<0.025	mg/l	
AP10	Arsenic, total	7/16/2021	ND<0.025	mg/l	
AP10	Arsenic, total	11/9/2021	ND<0.025	mg/l	
AP10	Arsenic, total	5/31/2022	ND<0.025	mg/l	
AP10	Arsenic, total	8/23/2022	ND<0.025	mg/l	
AP10	Arsenic, total	11/8/2022	ND<0.025	mg/l	
AP10	Arsenic, total	2/16/2023	ND<0.025	mg/l	
AP10	Arsenic, total	4/12/2023	ND<0.025	mg/l	
AP10	Arsenic, total	7/7/2023	0.0013	mg/l	
AP10	Arsenic, total	10/26/2023	ND<0.001	mg/l	
AP10	Arsenic, total	2/21/2024	0.0011	mg/l	
AP10	Arsenic, total	5/13/2024	ND<0.001	mg/l	
AP10	Arsenic, total	8/13/2024	ND<0.001	mg/l	
AP10	Arsenic, total	11/12/2024	0.0011	mg/l	
AP10	Arsenic, total	2/19/2025	ND<0.001	mg/l	
AP10	Arsenic, total	5/21/2025	0.0015	mg/l	
AP10	Arsenic, total	8/13/2025	0.0012	mg/l	
AP10	Arsenic, total	11/12/2025	ND<0.001	mg/l	
AP10	Arsenic, total	2/12/2026	ND<0.001	mg/l	
AP10	Arsenic, total	4/22/2026	0.0017	mg/l	
AP10	Arsenic, total	7/23/2026	ND<0.001	mg/l	
AP11	Arsenic, total	8/25/2021	ND<0.025	mg/l	
AP11	Arsenic, total	2/16/2022	ND<0.025	mg/l	
AP11	Arsenic, total	6/1/2022	ND<0.025	mg/l	
AP11	Arsenic, total	8/25/2022	ND<0.025	mg/l	
AP11	Arsenic, total	11/9/2022	ND<0.025	mg/l	
AP11	Arsenic, total	2/16/2023	ND<0.025	mg/l	
AP11	Arsenic, total	4/17/2023	ND<0.025	mg/l	
AP11	Arsenic, total	7/7/2023	ND<0.001	mg/l	
AP11	Arsenic, total	10/26/2023	ND<0.001	mg/l	
AP11	Arsenic, total	2/26/2024	ND<0.001	mg/l	
AP11	Arsenic, total	5/9/2024	0.0037	mg/l	
AP11	Arsenic, total	8/12/2024	ND<0.001	mg/l	
AP11	Arsenic, total	11/12/2024	ND<0.001	mg/l	
AP11	Arsenic, total	2/20/2025	0.0015	mg/l	
AP11	Arsenic, total	5/22/2025	ND<0.001	mg/l	
AP11	Arsenic, total	8/12/2025	ND<0.001	mg/l	
AP11	Arsenic, total	11/13/2025	ND<0.001	mg/l	
AP11	Arsenic, total	2/11/2026	ND<0.001	mg/l	
AP11	Arsenic, total	4/21/2026	ND<0.001	mg/l	
AP11	Arsenic, total	7/27/2026	ND<0.001	mg/l	
AP12	Arsenic, total	8/25/2021	ND<0.025	mg/l	
AP12	Arsenic, total	2/16/2022	ND<0.025	mg/l	
AP12	Arsenic, total	6/1/2022	ND<0.025	mg/l	
AP12	Arsenic, total	8/25/2022	ND<0.025	mg/l	

Well Coordinates

WellName	XCoord	YCoord	Aquifer	CoordUnits
AP1	831.70	5132.40	A	feet
AP10	695.60	4684.00	A	
AP11	524.50	4150.60	A	
AP12	667.60	3797.70	A	
AP13	852.10	3451.20	A	
AP14	1275.20	3171.50	A	
AP17	1958.57	5578.23	A	
AP2	735.90	4185.20	A	
AP3	823.40	3808.30	A	
AP4	1511.80	2467.60	A	
AP5	3203.10	3164.10	A	
AP6	1696.30	5689.97	A	
AP7	1634.67	5896.65	A	
AP8	1264.65	5420.93	A	
AP9	703.00	5216.80	A	
AW1	2030.40	4511.90	A	
AW2	2361.82	5479.98	A	
AW4	1966.10	5225.12	A	
AW5	1965.98	5417.32	A	
AW6	2384.81	5008.96	A	
G110	2315.70	3728.60	A	
G112	2560.52	4450.90	A	
G120	1986.90	5009.40	A	
G121	2130.18	5612.17	A	
G122	2305.27	5612.71	A	
GP1	1869.49	5990.31	A	
GP3	1418.89	5698.51	A	
GP7	1879.57	5786.46	A	
GP8	1916.11	5684.45	A	
P03D	2658.43	5671.14	A	
P04D	2881.14	5155.39	A	
P05D	2884.70	4518.50	A	
P06D	2186.93	4716.39	A	
P07D	2429.80	5345.28	A	
P09D	2422.82	4446.98	A	
P104	2307.37	5685.09	A	
P106	2378.63	5149.29	A	
R101	2863.06	4051.35	A	
R103	2878.40	5625.30	A	
R111	2249.83	4436.67	A	
RW3	1737.18	5614.09	A	
T1	1031.27	3133.86	A	
T2	520.12	3803.94	A	
T4	1214.73	5699.29	A	
T5	1453.85	5961.45	A	
T6	1869.10	6123.79	A	

GIS ShapeFiles

Filenames (*.shp)
J:\S\Springfield CWLP\CWLP Ash Pond\GEO\GWSDAT\aerial.shp

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AP12	Arsenic, total	11/9/2022	ND<0.025	mg/l							
AP12	Arsenic, total	2/16/2023	ND<0.025	mg/l							
AP12	Arsenic, total	4/17/2023	ND<0.025	mg/l							
AP12	Arsenic, total	7/7/2023	ND<0.001	mg/l							
AP12	Arsenic, total	10/26/2023	0.0149	mg/l							
AP12	Arsenic, total	2/26/2024	0.0013	mg/l							
AP12	Arsenic, total	5/9/2024	0.0038	mg/l							
AP12	Arsenic, total	8/12/2024	0.0015	mg/l							
AP12	Arsenic, total	11/12/2024	ND<0.001	mg/l							
AP12	Arsenic, total	2/20/2025	ND<0.001	mg/l							
AP12	Arsenic, total	5/22/2025	ND<0.001	mg/l							
AP12	Arsenic, total	8/12/2025	ND<0.001	mg/l							
AP12	Arsenic, total	11/13/2025	ND<0.001	mg/l							
AP12	Arsenic, total	2/11/2026	ND<0.001	mg/l							
AP12	Arsenic, total	4/21/2026	ND<0.001	mg/l							
AP12	Arsenic, total	7/27/2026	ND<0.001	mg/l							
AP13	Arsenic, total	8/25/2021	ND<0.025	mg/l							
AP13	Arsenic, total	2/16/2022	ND<0.025	mg/l							
AP13	Arsenic, total	6/1/2022	ND<0.025	mg/l							
AP13	Arsenic, total	8/25/2022	ND<0.025	mg/l							
AP13	Arsenic, total	11/9/2022	ND<0.025	mg/l							
AP13	Arsenic, total	2/16/2023	ND<0.025	mg/l							
AP13	Arsenic, total	4/17/2023	ND<0.025	mg/l							
AP13	Arsenic, total	7/7/2023	0.0031	mg/l							
AP13	Arsenic, total	10/26/2023	0.0075	mg/l							
AP13	Arsenic, total	2/26/2024	0.0028	mg/l							
AP13	Arsenic, total	5/9/2024	0.0032	mg/l							
AP13	Arsenic, total	8/12/2024	0.0029	mg/l							
AP13	Arsenic, total	11/12/2024	0.0038	mg/l							
AP13	Arsenic, total	2/20/2025	ND<0.001	mg/l							
AP13	Arsenic, total	5/22/2025	0.0032	mg/l							
AP13	Arsenic, total	8/13/2025	0.002	mg/l							
AP13	Arsenic, total	11/13/2025	0.0018	mg/l							
AP13	Arsenic, total	2/11/2026	0.0018	mg/l							
AP13	Arsenic, total	4/21/2026	ND<0.001	mg/l							
AP13	Arsenic, total	7/27/2026	ND<0.001	mg/l							
AP14	Arsenic, total	5/27/2021	ND<0.025	mg/l							
AP14	Arsenic, total	6/22/2021	ND<0.025	mg/l							
AP14	Arsenic, total	7/16/2021	ND<0.025	mg/l							
AP14	Arsenic, total	11/9/2021	ND<0.025	mg/l							
AP14	Arsenic, total	2/16/2022	ND<0.025	mg/l							
AP14	Arsenic, total	5/31/2022	ND<0.025	mg/l							
AP14	Arsenic, total	8/24/2022	ND<0.025	mg/l							
AP14	Arsenic, total	11/8/2022	ND<0.025	mg/l							
AP14	Arsenic, total	2/16/2023	ND<0.025	mg/l							
AP14	Arsenic, total	4/13/2023	ND<0.025	mg/l							
AP14	Arsenic, total	7/7/2023	0.0018	mg/l							
AP14	Arsenic, total	10/26/2023	0.0036	mg/l							
AP14	Arsenic, total	2/23/2024	0.0039	mg/l							
AP14	Arsenic, total	5/14/2024	0.0019	mg/l							
AP14	Arsenic, total	8/13/2024	0.0016	mg/l							
AP14	Arsenic, total	11/12/2024	0.0022	mg/l							
AP14	Arsenic, total	5/27/2025	0.0017	mg/l							
AP14	Arsenic, total	8/13/2025	0.0011	mg/l							
AP14	Arsenic, total	11/13/2025	0.0017	mg/l							
AP14	Arsenic, total	2/12/2026	0.0029	mg/l							
AP14	Arsenic, total	7/23/2026	0.0014	mg/l							
AP17	Arsenic, total	6/18/2026	0.0062	mg/l							
AP17	Arsenic, total	7/23/2026	0.0043	mg/l							
AP2	Arsenic, total	11/18/2016	ND<0.025	mg/l							
AP2	Arsenic, total	2/16/2017	ND<0.025	mg/l							
AP2	Arsenic, total	5/31/2017	ND<0.025	mg/l							
AP2	Arsenic, total	8/2/2017	ND<0.025	mg/l							
AP2	Arsenic, total	11/9/2017	ND<0.025	mg/l							
AP2	Arsenic, total	5/4/2018	ND<0.025	mg/l							
AP2	Arsenic, total	7/9/2018	ND<0.025	mg/l							
AP2	Arsenic, total	2/13/2019	ND<0.025	mg/l							
AP2	Arsenic, total	8/1/2019	ND<0.025	mg/l							
AP2	Arsenic, total	3/5/2020	ND<0.025	mg/l							
AP2	Arsenic, total	8/5/2020	ND<0.025	mg/l							
AP2	Arsenic, total	1/21/2021	ND<0.025	mg/l							
AP2	Arsenic, total	5/27/2021	ND<0.025	mg/l							
AP2	Arsenic, total	8/24/2021	ND<0.025	mg/l							
AP2	Arsenic, total	11/9/2021	ND<0.025	mg/l							
AP2	Arsenic, total	2/15/2022	ND<0.025	mg/l							
AP2	Arsenic, total	5/31/2022	ND<0.025	mg/l							
AP2	Arsenic, total	8/23/2022	ND<0.025	mg/l							
AP2	Arsenic, total	11/8/2022	ND<0.025	mg/l							
AP2	Arsenic, total	1/27/2023	ND<0.025	mg/l							
AP2	Arsenic, total	4/12/2023	ND<0.025	mg/l							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AP2	Arsenic, total	7/7/2023	0.002	mg/l							
AP2	Arsenic, total	10/26/2023	0.002	mg/l							
AP2	Arsenic, total	2/22/2024	0.0027	mg/l							
AP2	Arsenic, total	5/13/2024	0.002	mg/l							
AP2	Arsenic, total	8/12/2024	0.0031	mg/l							
AP2	Arsenic, total	11/11/2024	0.0016	mg/l							
AP2	Arsenic, total	2/18/2025	0.0022	mg/l							
AP2	Arsenic, total	5/21/2025	0.0013	mg/l							
AP2	Arsenic, total	8/12/2025	0.0014	mg/l							
AP2	Arsenic, total	11/12/2025	0.0014	mg/l							
AP2	Arsenic, total	2/12/2026	ND<0.001	mg/l							
AP2	Arsenic, total	4/21/2026	0.0019	mg/l							
AP2	Arsenic, total	7/24/2026	0.0012	mg/l							
AP3	Arsenic, total	11/18/2016	ND<0.025	mg/l							
AP3	Arsenic, total	2/16/2017	ND<0.025	mg/l							
AP3	Arsenic, total	5/31/2017	ND<0.025	mg/l							
AP3	Arsenic, total	8/2/2017	ND<0.025	mg/l							
AP3	Arsenic, total	11/9/2017	ND<0.025	mg/l							
AP3	Arsenic, total	5/4/2018	ND<0.025	mg/l							
AP3	Arsenic, total	7/9/2018	ND<0.025	mg/l							
AP3	Arsenic, total	2/13/2019	ND<0.025	mg/l							
AP3	Arsenic, total	8/1/2019	ND<0.025	mg/l							
AP3	Arsenic, total	3/5/2020	ND<0.025	mg/l							
AP3	Arsenic, total	8/5/2020	ND<0.025	mg/l							
AP3	Arsenic, total	1/21/2021	ND<0.025	mg/l							
AP3	Arsenic, total	5/27/2021	ND<0.025	mg/l							
AP3	Arsenic, total	8/24/2021	ND<0.025	mg/l							
AP3	Arsenic, total	11/9/2021	ND<0.025	mg/l							
AP3	Arsenic, total	2/15/2022	ND<0.025	mg/l							
AP3	Arsenic, total	5/31/2022	ND<0.025	mg/l							
AP3	Arsenic, total	8/23/2022	ND<0.025	mg/l							
AP3	Arsenic, total	11/8/2022	ND<0.025	mg/l							
AP3	Arsenic, total	1/27/2023	ND<0.025	mg/l							
AP3	Arsenic, total	4/12/2023	ND<0.025	mg/l							
AP3	Arsenic, total	7/7/2023	0.0109	mg/l							
AP3	Arsenic, total	10/26/2023	0.0182	mg/l							
AP3	Arsenic, total	2/22/2024	0.0101	mg/l							
AP3	Arsenic, total	5/13/2024	0.0021	mg/l							
AP3	Arsenic, total	8/29/2024	0.008	mg/l							
AP3	Arsenic, total	11/11/2024	0.0182	mg/l							
AP3	Arsenic, total	2/19/2025	0.0137	mg/l							
AP3	Arsenic, total	5/21/2025	0.0103	mg/l							
AP3	Arsenic, total	8/12/2025	0.016	mg/l							
AP3	Arsenic, total	11/12/2025	0.0135	mg/l							
AP3	Arsenic, total	2/12/2026	0.0175	mg/l							
AP3	Arsenic, total	4/21/2026	0.022	mg/l							
AP3	Arsenic, total	7/24/2026	0.0136	mg/l							
AP4	Arsenic, total	11/18/2016	ND<0.025	mg/l							
AP4	Arsenic, total	2/16/2017	ND<0.025	mg/l							
AP4	Arsenic, total	5/5/2017	ND<0.025	mg/l							
AP4	Arsenic, total	8/2/2017	ND<0.025	mg/l							
AP4	Arsenic, total	11/9/2017	0.0266	mg/l							
AP4	Arsenic, total	5/4/2018	ND<0.025	mg/l							
AP4	Arsenic, total	7/9/2018	ND<0.025	mg/l							
AP4	Arsenic, total	2/13/2019	ND<0.025	mg/l							
AP4	Arsenic, total	8/1/2019	ND<0.025	mg/l							
AP4	Arsenic, total	3/5/2020	0.0264	mg/l							
AP4	Arsenic, total	8/6/2020	ND<0.025	mg/l							
AP4	Arsenic, total	1/21/2021	0.0359	mg/l							
AP4	Arsenic, total	5/27/2021	ND<0.025	mg/l							
AP4	Arsenic, total	8/24/2021	ND<0.025	mg/l							
AP4	Arsenic, total	11/9/2021	0.0305	mg/l							
AP4	Arsenic, total	2/16/2022	0.0306	mg/l							
AP4	Arsenic, total	5/31/2022	ND<0.025	mg/l							
AP4	Arsenic, total	8/23/2022	0.0309	mg/l							
AP4	Arsenic, total	11/8/2022	0.027	mg/l							
AP4	Arsenic, total	1/26/2023	ND<0.025	mg/l							
AP4	Arsenic, total	4/13/2023	0.025	mg/l							
AP4	Arsenic, total	7/7/2023	0.0239	mg/l							
AP4	Arsenic, total	10/26/2023	0.0225	mg/l							
AP4	Arsenic, total	2/23/2024	0.0375	mg/l							
AP4	Arsenic, total	5/13/2024	0.0229	mg/l							
AP4	Arsenic, total	8/12/2024	0.0207	mg/l							
AP4	Arsenic, total	11/11/2024	0.0246	mg/l							
AP4	Arsenic, total	2/18/2025	0.021	mg/l							
AP4	Arsenic, total	5/28/2025	0.0223	mg/l							
AP4	Arsenic, total	8/12/2025	0.0248	mg/l							
AP4	Arsenic, total	11/13/2025	0.0219	mg/l							
AP4	Arsenic, total	2/11/2026	0.0026	mg/l							
AP4	Arsenic, total	4/21/2026	ND<0.001	mg/l							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AP4	Arsenic, total	7/24/2026	0.022	mg/l							
AP5	Arsenic, total	11/18/2016	ND<0.025	mg/l							
AP5	Arsenic, total	2/16/2017	ND<0.025	mg/l							
AP5	Arsenic, total	5/5/2017	ND<0.025	mg/l							
AP5	Arsenic, total	8/3/2017	ND<0.025	mg/l							
AP5	Arsenic, total	11/9/2017	ND<0.025	mg/l							
AP5	Arsenic, total	5/4/2018	ND<0.025	mg/l							
AP5	Arsenic, total	7/9/2018	ND<0.025	mg/l							
AP5	Arsenic, total	2/13/2019	ND<0.025	mg/l							
AP5	Arsenic, total	8/1/2019	ND<0.025	mg/l							
AP5	Arsenic, total	3/5/2020	ND<0.025	mg/l							
AP5	Arsenic, total	8/6/2020	0.0937	mg/l							
AP5	Arsenic, total	1/21/2021	ND<0.025	mg/l							
AP5	Arsenic, total	5/27/2021	ND<0.025	mg/l							
AP5	Arsenic, total	8/24/2021	ND<0.025	mg/l							
AP5	Arsenic, total	11/10/2021	ND<0.025	mg/l							
AP5	Arsenic, total	2/16/2022	ND<0.025	mg/l							
AP5	Arsenic, total	5/31/2022	ND<0.025	mg/l							
AP5	Arsenic, total	8/23/2022	ND<0.025	mg/l							
AP5	Arsenic, total	11/8/2022	ND<0.025	mg/l							
AP5	Arsenic, total	1/27/2023	ND<0.025	mg/l							
AP5	Arsenic, total	4/13/2023	ND<0.025	mg/l							
AP5	Arsenic, total	7/7/2023	ND<0.001	mg/l							
AP5	Arsenic, total	10/26/2023	ND<0.001	mg/l							
AP5	Arsenic, total	2/22/2024	ND<0.001	mg/l							
AP5	Arsenic, total	5/14/2024	ND<0.001	mg/l							
AP5	Arsenic, total	8/12/2024	ND<0.001	mg/l							
AP5	Arsenic, total	11/11/2024	ND<0.001	mg/l							
AP5	Arsenic, total	2/18/2025	ND<0.001	mg/l							
AP5	Arsenic, total	5/21/2025	ND<0.001	mg/l							
AP5	Arsenic, total	8/12/2025	ND<0.001	mg/l							
AP5	Arsenic, total	11/13/2025	ND<0.001	mg/l							
AP5	Arsenic, total	2/11/2026	ND<0.001	mg/l							
AP5	Arsenic, total	4/21/2026	ND<0.001	mg/l							
AP5	Arsenic, total	7/24/2026	ND<0.001	mg/l							
AP6	Arsenic, total	3/5/2020	0.059	mg/l							
AP6	Arsenic, total	8/5/2020	ND<0.025	mg/l							
AP6	Arsenic, total	1/21/2021	ND<0.025	mg/l							
AP6	Arsenic, total	5/26/2021	ND<0.025	mg/l							
AP6	Arsenic, total	8/24/2021	ND<0.025	mg/l							
AP6	Arsenic, total	11/10/2021	ND<0.025	mg/l							
AP6	Arsenic, total	2/15/2022	ND<0.025	mg/l							
AP6	Arsenic, total	5/31/2022	ND<0.025	mg/l							
AP6	Arsenic, total	8/23/2022	ND<0.025	mg/l							
AP6	Arsenic, total	11/8/2022	ND<0.025	mg/l							
AP6	Arsenic, total	1/27/2023	ND<0.025	mg/l							
AP6	Arsenic, total	4/12/2023	ND<0.025	mg/l							
AP6	Arsenic, total	7/6/2023	0.004	mg/l							
AP6	Arsenic, total	10/26/2023	0.0183	mg/l							
AP6	Arsenic, total	2/22/2024	0.0068	mg/l							
AP6	Arsenic, total	5/10/2024	0.0121	mg/l							
AP6	Arsenic, total	8/12/2024	0.0074	mg/l							
AP6	Arsenic, total	11/11/2024	0.0108	mg/l							
AP6	Arsenic, total	2/18/2025	0.012	mg/l							
AP6	Arsenic, total	5/21/2025	0.0037	mg/l							
AP6	Arsenic, total	8/12/2025	0.0068	mg/l							
AP6	Arsenic, total	11/13/2025	0.0112	mg/l							
AP6	Arsenic, total	2/12/2026	0.0114	mg/l							
AP6	Arsenic, total	4/21/2026	ND<0.001	mg/l							
AP6	Arsenic, total	7/27/2026	0.0104	mg/l							
AP7	Arsenic, total	3/5/2020	ND<0.025	mg/l							
AP7	Arsenic, total	8/5/2020	0.0429	mg/l							
AP7	Arsenic, total	1/21/2021	0.0415	mg/l							
AP7	Arsenic, total	5/26/2021	ND<0.025	mg/l							
AP7	Arsenic, total	8/24/2021	ND<0.025	mg/l							
AP7	Arsenic, total	11/10/2021	0.0306	mg/l							
AP7	Arsenic, total	2/15/2022	ND<0.025	mg/l							
AP7	Arsenic, total	6/1/2022	0.0468	mg/l							
AP7	Arsenic, total	8/25/2022	0.0376	mg/l							
AP7	Arsenic, total	11/9/2022	ND<0.025	mg/l							
AP7	Arsenic, total	2/16/2023	ND<0.025	mg/l							
AP7	Arsenic, total	4/17/2023	0.0462	mg/l							
AP7	Arsenic, total	7/7/2023	0.0412	mg/l							
AP7	Arsenic, total	10/26/2023	0.075	mg/l							
AP7	Arsenic, total	2/26/2024	0.0555	mg/l							
AP7	Arsenic, total	5/14/2024	0.0395	mg/l							
AP7	Arsenic, total	8/12/2024	0.0438	mg/l							
AP7	Arsenic, total	11/13/2024	0.09469999	mg/l							
AP7	Arsenic, total	2/20/2025	0.0248	mg/l							
AP7	Arsenic, total	5/27/2025	0.0289	mg/l							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AP7	Arsenic, total	8/13/2025	0.0289	mg/l							
AP7	Arsenic, total	11/13/2025	0.0182	mg/l							
AP7	Arsenic, total	2/11/2026	0.0325	mg/l							
AP7	Arsenic, total	4/21/2026	0.0222	mg/l							
AP7	Arsenic, total	7/27/2026	0.0521	mg/l							
AP8	Arsenic, total	5/26/2021	ND<0.025	mg/l							
AP8	Arsenic, total	6/22/2021	0.0363	mg/l							
AP8	Arsenic, total	7/16/2021	0.0317	mg/l							
AP8	Arsenic, total	11/10/2021	0.0405	mg/l							
AP8	Arsenic, total	2/15/2022	0.0319	mg/l							
AP8	Arsenic, total	5/31/2022	0.0352	mg/l							
AP8	Arsenic, total	8/23/2022	0.0377	mg/l							
AP8	Arsenic, total	11/8/2022	0.034	mg/l							
AP8	Arsenic, total	1/27/2023	0.0336	mg/l							
AP8	Arsenic, total	4/12/2023	0.0348	mg/l							
AP8	Arsenic, total	7/7/2023	0.0513	mg/l							
AP8	Arsenic, total	10/26/2023	0.0395	mg/l							
AP8	Arsenic, total	2/21/2024	0.0426	mg/l							
AP8	Arsenic, total	5/10/2024	0.0461	mg/l							
AP8	Arsenic, total	8/13/2024	0.0414	mg/l							
AP8	Arsenic, total	11/13/2024	0.0386	mg/l							
AP8	Arsenic, total	2/19/2025	0.0487	mg/l							
AP8	Arsenic, total	5/21/2025	0.0446	mg/l							
AP8	Arsenic, total	8/13/2025	0.0389	mg/l							
AP8	Arsenic, total	11/13/2025	0.0372	mg/l							
AP8	Arsenic, total	2/12/2026	0.0394	mg/l							
AP8	Arsenic, total	4/21/2026	0.0366	mg/l							
AP8	Arsenic, total	7/22/2026	0.0462	mg/l							
AP9	Arsenic, total	8/24/2021	ND<0.025	mg/l							
AP9	Arsenic, total	2/15/2022	ND<0.025	mg/l							
AP9	Arsenic, total	6/1/2022	ND<0.025	mg/l							
AP9	Arsenic, total	8/25/2022	ND<0.025	mg/l							
AP9	Arsenic, total	11/9/2022	ND<0.025	mg/l							
AP9	Arsenic, total	2/16/2023	ND<0.025	mg/l							
AP9	Arsenic, total	4/17/2023	ND<0.025	mg/l							
AP9	Arsenic, total	7/7/2023	0.0114	mg/l							
AP9	Arsenic, total	10/26/2023	0.0062	mg/l							
AP9	Arsenic, total	2/26/2024	0.0037	mg/l							
AP9	Arsenic, total	5/14/2024	0.0024	mg/l							
AP9	Arsenic, total	8/12/2024	0.0028	mg/l							
AP9	Arsenic, total	11/13/2024	0.0019	mg/l							
AP9	Arsenic, total	2/20/2025	0.0023	mg/l							
AP9	Arsenic, total	5/27/2025	0.0014	mg/l							
AP9	Arsenic, total	8/13/2025	0.0013	mg/l							
AP9	Arsenic, total	11/13/2025	0.0016	mg/l							
AP9	Arsenic, total	2/11/2026	ND<0.001	mg/l							
AP9	Arsenic, total	4/21/2026	0.0012	mg/l							
AP9	Arsenic, total	7/27/2026	ND<0.001	mg/l							
AW1	Arsenic, total	5/5/2017	0.13	mg/l							
AW1	Arsenic, total	5/4/2018	0.155	mg/l							
AW1	Arsenic, total	5/20/2019	0.0386	mg/l							
AW1	Arsenic, total	11/1/2019	0.178	mg/l							
AW1	Arsenic, total	5/6/2020	0.147	mg/l							
AW1	Arsenic, total	5/28/2021	0.163	mg/l							
AW1	Arsenic, total	6/2/2022	0.148	mg/l							
AW1	Arsenic, total	8/24/2022	0.192	mg/l							
AW1	Arsenic, total	4/11/2023	0.152	mg/l							
AW1	Arsenic, total	10/25/2023	0.208	mg/l							
AW1	Arsenic, total	2/1/2024	0.16	mg/l							
AW1	Arsenic, total	5/10/2024	0.153	mg/l							
AW1	Arsenic, total	8/13/2024	0.129	mg/l							
AW1	Arsenic, total	11/11/2024	0.168	mg/l							
AW1	Arsenic, total	2/20/2025	0.146	mg/l							
AW1	Arsenic, total	5/22/2025	0.0016	mg/l							
AW1	Arsenic, total	8/12/2025	0.0098	mg/l							
AW1	Arsenic, total	11/13/2025	0.13	mg/l							
AW1	Arsenic, total	2/11/2026	0.152	mg/l							
AW1	Arsenic, total	4/23/2026	0.0202	mg/l							
AW1	Arsenic, total	6/18/2026	0.0357	mg/l							
AW1	Arsenic, total	7/22/2026	0.08130001	mg/l							
AW2	Arsenic, total	5/5/2017	0.0254	mg/l							
AW2	Arsenic, total	5/4/2018	ND<0.025	mg/l							
AW2	Arsenic, total	5/20/2019	0.0284	mg/l							
AW2	Arsenic, total	11/1/2019	0.0286	mg/l							
AW2	Arsenic, total	5/6/2020	0.0274	mg/l							
AW2	Arsenic, total	5/28/2021	0.0202	mg/l							
AW2	Arsenic, total	6/2/2022	0.0226	mg/l							
AW2	Arsenic, total	4/11/2023	0.019	mg/l							
AW2	Arsenic, total	10/25/2023	0.0266	mg/l							
AW2	Arsenic, total	2/21/2024	0.0235	mg/l							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AW2	Arsenic, total	5/13/2024	0.0175	mg/l							
AW2	Arsenic, total	8/12/2024	0.018	mg/l							
AW2	Arsenic, total	11/13/2024	0.013	mg/l							
AW2	Arsenic, total	2/20/2025	0.0017	mg/l							
AW2	Arsenic, total	3/18/2025	0.0012	mg/l							
AW2	Arsenic, total	4/24/2025	0.0014	mg/l							
AW2	Arsenic, total	5/22/2025	0.0166	mg/l							
AW2	Arsenic, total	8/11/2025	0.011	mg/l							
AW2	Arsenic, total	2/11/2026	0.0099	mg/l							
AW2	Arsenic, total	4/22/2026	0.0021	mg/l							
AW2	Arsenic, total	6/18/2026	0.0144	mg/l							
AW2	Arsenic, total	7/23/2026	0.0098	mg/l							
AW4	Arsenic, total	6/17/2026	0.0143	mg/l							
AW4	Arsenic, total	7/27/2026	0.0084	mg/l							
AW5	Arsenic, total	6/18/2026	0.0086	mg/l							
AW5	Arsenic, total	7/23/2026	0.0096	mg/l							
AW6	Arsenic, total	6/18/2026	0.0301	mg/l							
AW6	Arsenic, total	7/22/2026	0.025	mg/l							
G110	Arsenic, total	5/5/2017	ND<0.025	mg/l							
G110	Arsenic, total	5/4/2018	ND<0.025	mg/l							
G110	Arsenic, total	5/20/2019	ND<0.025	mg/l							
G110	Arsenic, total	11/1/2019	ND<0.025	mg/l							
G110	Arsenic, total	5/6/2020	0.0017	mg/l							
G110	Arsenic, total	5/28/2021	0.0017	mg/l							
G110	Arsenic, total	6/2/2022	0.0018	mg/l							
G110	Arsenic, total	4/12/2023	0.0049	mg/l							
G110	Arsenic, total	10/26/2023	0.0053	mg/l							
G110	Arsenic, total	2/1/2024	0.0057	mg/l							
G110	Arsenic, total	5/8/2024	0.0058	mg/l							
G110	Arsenic, total	8/13/2024	0.0046	mg/l							
G110	Arsenic, total	11/13/2024	0.0058	mg/l							
G110	Arsenic, total	2/19/2025	0.0044	mg/l							
G110	Arsenic, total	5/21/2025	0.0047	mg/l							
G110	Arsenic, total	4/23/2026	0.0062	mg/l							
G112	Arsenic, total	5/5/2017	ND<0.025	mg/l							
G112	Arsenic, total	5/4/2018	ND<0.025	mg/l							
G112	Arsenic, total	5/20/2019	ND<0.025	mg/l							
G112	Arsenic, total	11/1/2019	ND<0.025	mg/l							
G112	Arsenic, total	5/6/2020	0.0094	mg/l							
G112	Arsenic, total	5/28/2021	0.0057	mg/l							
G112	Arsenic, total	6/2/2022	0.0015	mg/l							
G112	Arsenic, total	4/10/2023	ND<0.001	mg/l							
G112	Arsenic, total	10/25/2023	0.0021	mg/l							
G112	Arsenic, total	2/22/2024	ND<0.001	mg/l							
G112	Arsenic, total	5/9/2024	ND<0.001	mg/l							
G112	Arsenic, total	8/13/2024	ND<0.001	mg/l							
G112	Arsenic, total	11/11/2024	ND<0.001	mg/l							
G112	Arsenic, total	2/20/2025	0.001	mg/l							
G112	Arsenic, total	3/18/2025	0.0012	mg/l							
G112	Arsenic, total	5/21/2025	ND<0.001	mg/l							
G112	Arsenic, total	4/23/2026	ND<0.001	mg/l							
G120	Arsenic, total	5/5/2017	ND<0.025	mg/l							
G120	Arsenic, total	5/4/2018	ND<0.025	mg/l							
G120	Arsenic, total	5/20/2019	ND<0.025	mg/l							
G120	Arsenic, total	11/1/2019	ND<0.025	mg/l							
G120	Arsenic, total	5/6/2020	0.0118	mg/l							
G120	Arsenic, total	5/28/2021	0.0113	mg/l							
G120	Arsenic, total	6/2/2022	0.012	mg/l							
G120	Arsenic, total	4/10/2023	0.0138	mg/l							
G120	Arsenic, total	10/25/2023	0.0162	mg/l							
G120	Arsenic, total	2/2/2024	0.0116	mg/l							
G120	Arsenic, total	5/9/2024	0.0121	mg/l							
G120	Arsenic, total	8/13/2024	0.0104	mg/l							
G120	Arsenic, total	11/13/2024	0.0119	mg/l							
G120	Arsenic, total	2/21/2025	0.0113	mg/l							
G120	Arsenic, total	3/18/2025	0.0121	mg/l							
G120	Arsenic, total	5/21/2025	0.0114	mg/l							
G120	Arsenic, total	8/12/2025	0.0115	mg/l							
G120	Arsenic, total	11/13/2025	0.0128	mg/l							
G120	Arsenic, total	2/12/2026	0.0105	mg/l							
G120	Arsenic, total	4/22/2026	0.0106	mg/l							
G120	Arsenic, total	6/17/2026	0.0169	mg/l							
G120	Arsenic, total	7/22/2026	ND<0.001	mg/l							
G121	Arsenic, total	5/5/2017	ND<0.025	mg/l							
G121	Arsenic, total	5/4/2018	ND<0.025	mg/l							
G121	Arsenic, total	5/20/2019	ND<0.025	mg/l							
G121	Arsenic, total	11/1/2019	ND<0.025	mg/l							
G121	Arsenic, total	5/6/2020	0.0136	mg/l							
G121	Arsenic, total	5/27/2021	0.0149	mg/l							
G121	Arsenic, total	6/2/2022	0.0163	mg/l							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data

WellName	Constituent	SampleDate	Result	Units	Flags
G121	Arsenic, total	4/10/2023	0.0155	mg/l	
G121	Arsenic, total	10/25/2023	0.0221	mg/l	
G121	Arsenic, total	2/2/2024	0.0173	mg/l	
G121	Arsenic, total	5/9/2024	0.0146	mg/l	
G121	Arsenic, total	8/13/2024	0.0084	mg/l	
G121	Arsenic, total	11/11/2024	0.016	mg/l	
G121	Arsenic, total	2/20/2025	0.0169	mg/l	
G121	Arsenic, total	3/18/2025	ND<0.001	mg/l	
G121	Arsenic, total	4/24/2025	0.0145	mg/l	
G121	Arsenic, total	5/22/2025	0.018	mg/l	
G121	Arsenic, total	8/11/2025	0.0044	mg/l	
G121	Arsenic, total	2/11/2026	0.0075	mg/l	
G121	Arsenic, total	4/22/2026	0.0114	mg/l	
G121	Arsenic, total	6/18/2026	0.0141	mg/l	
G121	Arsenic, total	7/23/2026	0.0177	mg/l	
G122	Arsenic, total	5/5/2017	ND<0.025	mg/l	
G122	Arsenic, total	5/4/2018	ND<0.025	mg/l	
G122	Arsenic, total	5/20/2019	ND<0.025	mg/l	
G122	Arsenic, total	11/1/2019	ND<0.025	mg/l	
G122	Arsenic, total	5/6/2020	0.0034	mg/l	
G122	Arsenic, total	5/28/2021	0.0032	mg/l	
G122	Arsenic, total	6/2/2022	0.0041	mg/l	
G122	Arsenic, total	4/10/2023	0.0034	mg/l	
G122	Arsenic, total	10/25/2023	0.0046	mg/l	
G122	Arsenic, total	2/2/2024	0.0028	mg/l	
G122	Arsenic, total	5/9/2024	0.0035	mg/l	
G122	Arsenic, total	8/13/2024	0.0019	mg/l	
G122	Arsenic, total	11/11/2024	0.0029	mg/l	
G122	Arsenic, total	2/20/2025	0.001	mg/l	
G122	Arsenic, total	3/18/2025	0.0016	mg/l	
G122	Arsenic, total	4/24/2025	0.0032	mg/l	
G122	Arsenic, total	5/22/2025	0.0027	mg/l	
G122	Arsenic, total	8/11/2025	0.0029	mg/l	
G122	Arsenic, total	2/11/2026	0.0025	mg/l	
G122	Arsenic, total	4/22/2026	0.0016	mg/l	
G122	Arsenic, total	6/18/2026	0.0019	mg/l	
G122	Arsenic, total	7/24/2026	0.0031	mg/l	
GP1	Arsenic, total	8/24/2021	ND<0.025	mg/l	
GP3	Arsenic, total	8/24/2021	ND<0.025	mg/l	
GP7	Arsenic, total	8/12/2025	0.0072	mg/l	
P03D	Arsenic, total	8/11/2025	0.0017	mg/l	
P04D	Arsenic, total	5/28/2021	ND<0.025	mg/l	
P04D	Arsenic, total	8/11/2025	0.0027	mg/l	
P06D	Arsenic, total	5/28/2021	0.0269	mg/l	
P06D	Arsenic, total	3/18/2025	0.0153	mg/l	
P07D	Arsenic, total	5/28/2021	0.047	mg/l	
P07D	Arsenic, total	8/12/2024	0.0394	mg/l	
P07D	Arsenic, total	11/13/2024	0.036	mg/l	
P07D	Arsenic, total	2/20/2025	0.0276	mg/l	
P07D	Arsenic, total	3/18/2025	0.0292	mg/l	
P07D	Arsenic, total	4/24/2025	0.0262	mg/l	
P07D	Arsenic, total	5/27/2025	0.0324	mg/l	
P07D	Arsenic, total	8/11/2025	0.0255	mg/l	
P07D	Arsenic, total	2/12/2026	0.0294	mg/l	
P07D	Arsenic, total	6/17/2026	0.0272	mg/l	
P07D	Arsenic, total	7/23/2026	0.0305	mg/l	
P09D	Arsenic, total	5/28/2021	ND<0.025	mg/l	
P104	Arsenic, total	5/28/2021	ND<0.025	mg/l	
P104	Arsenic, total	8/11/2025	0.0055	mg/l	
R101	Arsenic, total	5/5/2017	ND<0.025	mg/l	
R101	Arsenic, total	5/4/2018	ND<0.025	mg/l	
R101	Arsenic, total	5/20/2019	ND<0.025	mg/l	
R101	Arsenic, total	11/1/2019	ND<0.025	mg/l	
R101	Arsenic, total	5/6/2020	ND<0.001	mg/l	
R101	Arsenic, total	5/28/2021	ND<0.001	mg/l	
R101	Arsenic, total	6/2/2022	ND<0.001	mg/l	
R101	Arsenic, total	4/11/2023	ND<0.001	mg/l	
R101	Arsenic, total	10/25/2023	ND<0.001	mg/l	
R101	Arsenic, total	2/23/2024	ND<0.001	mg/l	
R101	Arsenic, total	5/13/2024	ND<0.001	mg/l	
R101	Arsenic, total	8/12/2024	ND<0.001	mg/l	
R101	Arsenic, total	11/11/2024	ND<0.001	mg/l	
R101	Arsenic, total	2/21/2025	ND<0.001	mg/l	
R101	Arsenic, total	3/18/2025	ND<0.001	mg/l	
R101	Arsenic, total	4/24/2025	ND<0.001	mg/l	
R101	Arsenic, total	5/27/2025	0.0021	mg/l	
R101	Arsenic, total	8/11/2025	ND<0.001	mg/l	
R101	Arsenic, total	2/11/2026	ND<0.001	mg/l	
R101	Arsenic, total	4/22/2026	ND<0.001	mg/l	
R101	Arsenic, total	6/18/2026	0.0014	mg/l	

Well Coordinates

WellName	XCoord	YCoord	Aquifer	CoordUnits

GIS ShapeFiles

Filenames (*.shp)

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
R101	Arsenic, total	7/22/2026	0.0018	mg/l							
R103	Arsenic, total	5/28/2021	ND<0.025	mg/l							
R103	Arsenic, total	8/11/2025	0.0018	mg/l							
R111	Arsenic, total	5/5/2017	ND<0.025	mg/l							
R111	Arsenic, total	5/4/2018	0.0302	mg/l							
R111	Arsenic, total	5/20/2019	ND<0.025	mg/l							
R111	Arsenic, total	11/1/2019	ND<0.025	mg/l							
R111	Arsenic, total	5/6/2020	0.0465	mg/l							
R111	Arsenic, total	5/28/2021	0.0231	mg/l							
R111	Arsenic, total	6/2/2022	0.0111	mg/l							
R111	Arsenic, total	8/24/2022	0.0031	mg/l							
R111	Arsenic, total	4/10/2023	0.021	mg/l							
R111	Arsenic, total	7/6/2023	0.0212	mg/l							
R111	Arsenic, total	10/26/2023	0.0019	mg/l							
R111	Arsenic, total	2/2/2024	0.0015	mg/l							
R111	Arsenic, total	5/8/2024	0.0175	mg/l							
R111	Arsenic, total	8/12/2024	0.0166	mg/l							
R111	Arsenic, total	11/11/2024	0.0185	mg/l							
R111	Arsenic, total	2/20/2025	0.0156	mg/l							
R111	Arsenic, total	3/18/2025	0.0199	mg/l							
R111	Arsenic, total	5/21/2025	0.0215	mg/l							
R111	Arsenic, total	4/22/2026	0.0147	mg/l							
RW3	Arsenic, total	11/18/2016	0.224	mg/l							
RW3	Arsenic, total	2/16/2017	0.21	mg/l							
RW3	Arsenic, total	5/31/2017	0.0856	mg/l							
RW3	Arsenic, total	8/2/2017	0.157	mg/l							
RW3	Arsenic, total	11/9/2017	0.172	mg/l							
RW3	Arsenic, total	5/4/2018	0.0826	mg/l							
RW3	Arsenic, total	6/21/2018	0.0935	mg/l							
RW3	Arsenic, total	7/9/2018	0.136	mg/l							
RW3	Arsenic, total	2/13/2019	0.124	mg/l							
RW3	Arsenic, total	5/20/2019	ND<0.1	mg/l							
RW3	Arsenic, total	8/1/2019	ND<0.025	mg/l							
RW3	Arsenic, total	11/1/2019	0.168	mg/l							
RW3	Arsenic, total	2/28/2020	0.497	mg/l							
RW3	Arsenic, total	5/6/2020	0.105	mg/l							
RW3	Arsenic, total	8/5/2020	0.253	mg/l							
RW3	Arsenic, total	1/21/2021	0.116	mg/l							
RW3	Arsenic, total	5/26/2021	0.119	mg/l							
RW3	Arsenic, total	8/25/2021	0.105	mg/l							
RW3	Arsenic, total	11/10/2021	0.158	mg/l							
RW3	Arsenic, total	2/16/2022	0.178	mg/l							
RW3	Arsenic, total	6/1/2022	0.109	mg/l							
RW3	Arsenic, total	8/23/2022	0.11	mg/l							
RW3	Arsenic, total	11/8/2022	0.142	mg/l							
RW3	Arsenic, total	1/26/2023	0.169	mg/l							
RW3	Arsenic, total	4/11/2023	0.185	mg/l							
RW3	Arsenic, total	7/6/2023	0.0831	mg/l							
RW3	Arsenic, total	10/25/2023	0.74	mg/l							
RW3	Arsenic, total	2/21/2024	0.306	mg/l							
RW3	Arsenic, total	5/9/2024	0.188	mg/l							
RW3	Arsenic, total	8/12/2024	0.107	mg/l							
RW3	Arsenic, total	11/11/2024	0.214	mg/l							
RW3	Arsenic, total	2/18/2025	0.0961	mg/l							
RW3	Arsenic, total	5/21/2025	0.0808	mg/l							
RW3	Arsenic, total	8/12/2025	0.103	mg/l							
RW3	Arsenic, total	11/12/2025	0.108	mg/l							
RW3	Arsenic, total	2/12/2026	0.0654	mg/l							
RW3	Arsenic, total	4/22/2026	0.0874	mg/l							
RW3	Arsenic, total	7/24/2026	0.119	mg/l							
T1	Arsenic, total	5/9/2024	ND<0.001	mg/l							
T1	Arsenic, total	8/12/2024	0.0048	mg/l							
T1	Arsenic, total	11/12/2024	0.0019	mg/l							
T1	Arsenic, total	2/20/2025	0.0023	mg/l							
T1	Arsenic, total	5/22/2025	ND<0.001	mg/l							
T1	Arsenic, total	8/12/2025	0.0016	mg/l							
T1	Arsenic, total	11/13/2025	ND<0.001	mg/l							
T1	Arsenic, total	2/11/2026	ND<0.001	mg/l							
T1	Arsenic, total	4/21/2026	ND<0.001	mg/l							
T1	Arsenic, total	7/27/2026	ND<0.001	mg/l							
T2	Arsenic, total	5/9/2024	0.0023	mg/l							
T2	Arsenic, total	8/12/2024	0.0053	mg/l							
T2	Arsenic, total	11/13/2024	0.006	mg/l							
T2	Arsenic, total	2/20/2025	0.0073	mg/l							
T2	Arsenic, total	5/22/2025	0.0056	mg/l							
T2	Arsenic, total	8/12/2025	0.0068	mg/l							
T2	Arsenic, total	11/13/2025	0.0073	mg/l							
T2	Arsenic, total	2/11/2026	0.0055	mg/l							
T2	Arsenic, total	4/21/2026	0.0043	mg/l							
T2	Arsenic, total	7/27/2026	0.004	mg/l							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
T4	Arsenic, total	5/14/2024	0.0013	mg/l							
T4	Arsenic, total	8/13/2024	0.0055	mg/l							
T4	Arsenic, total	11/13/2024	0.0055	mg/l							
T4	Arsenic, total	2/19/2025	0.0049	mg/l							
T4	Arsenic, total	5/27/2025	0.0039	mg/l							
T4	Arsenic, total	8/13/2025	0.0038	mg/l							
T4	Arsenic, total	11/13/2025	0.003	mg/l							
T4	Arsenic, total	2/11/2026	0.0026	mg/l							
T4	Arsenic, total	4/21/2026	0.0049	mg/l							
T4	Arsenic, total	7/27/2026	0.0039	mg/l							
T5	Arsenic, total	5/14/2024	ND<0.001	mg/l							
T5	Arsenic, total	8/13/2024	ND<0.001	mg/l							
T5	Arsenic, total	11/13/2024	0.0016	mg/l							
T5	Arsenic, total	2/19/2025	ND<0.001	mg/l							
T5	Arsenic, total	5/27/2025	ND<0.001	mg/l							
T5	Arsenic, total	8/13/2025	0.0014	mg/l							
T5	Arsenic, total	11/13/2025	0.0022	mg/l							
T5	Arsenic, total	2/11/2026	0.0033	mg/l							
T5	Arsenic, total	4/21/2026	ND<0.001	mg/l							
T5	Arsenic, total	7/27/2026	ND<0.001	mg/l							
T6	Arsenic, total	5/14/2024	0.0076	mg/l							
T6	Arsenic, total	8/13/2024	0.0108	mg/l							
T6	Arsenic, total	11/13/2024	0.0158	mg/l							
T6	Arsenic, total	2/19/2025	0.0037	mg/l							
T6	Arsenic, total	5/27/2025	0.0195	mg/l							
T6	Arsenic, total	8/13/2025	0.0086	mg/l							
T6	Arsenic, total	11/13/2025	0.0145	mg/l							
T6	Arsenic, total	2/11/2026	0.0114	mg/l							
T6	Arsenic, total	4/21/2026	ND<0.001	mg/l							
T6	Arsenic, total	7/27/2026	0.0115	mg/l							
AP1	GW	11/18/2016	524.48	feet							
AP1	GW	2/16/2017	524.65	feet							
AP1	GW	8/3/2017	524.47	feet							
AP1	GW	11/9/2017	524.4	feet							
AP1	GW	1/31/2018	524.47	feet							
AP1	GW	5/4/2018	525.36	feet							
AP1	GW	8/1/2019	526.19	feet							
AP1	GW	11/1/2019	524.43	feet							
AP1	GW	3/5/2020	528.66	feet							
AP1	GW	8/5/2020	524.52	feet							
AP1	GW	11/23/2020	535.37	feet							
AP1	GW	1/21/2021	524.4	feet							
AP1	GW	5/27/2021	527.26	feet							
AP1	GW	8/25/2021	524.52	feet							
AP1	GW	11/10/2021	526.38	feet							
AP1	GW	2/15/2022	526.05	feet							
AP1	GW	5/31/2022	525.69	feet							
AP1	GW	8/23/2022	525.04	feet							
AP1	GW	11/8/2022	525.27	feet							
AP1	GW	1/27/2023	525.48	feet							
AP1	GW	4/12/2023	525.45	feet							
AP1	GW	7/7/2023	525.18	feet							
AP1	GW	10/26/2023	523.95	feet							
AP1	GW	2/21/2024	526.89	feet							
AP1	GW	5/13/2024	526.49	feet							
AP1	GW	8/12/2024	524.03	feet							
AP1	GW	11/11/2024	524.98	feet							
AP1	GW	2/18/2025	524.58	feet							
AP1	GW	5/28/2025	525.58	feet							
AP1	GW	8/12/2025	524.15	feet							
AP1	GW	11/13/2025	523.48	feet							
AP1	GW	2/12/2026	524.32	feet							
AP1	GW	4/22/2026	525.62	feet							
AP1	GW	7/27/2026	524.78	feet							
AP10	GW	5/26/2021	534.86	feet							
AP10	GW	6/22/2021	532.98	feet							
AP10	GW	7/16/2021	536.63	feet							
AP10	GW	11/9/2021	534.46	feet							
AP10	GW	5/31/2022	533.88	feet							
AP10	GW	8/23/2022	533.85	feet							
AP10	GW	11/8/2022	532.94	feet							
AP10	GW	2/16/2023	534.82	feet							
AP10	GW	4/12/2023	534.45	feet							
AP10	GW	7/7/2023	532.54	feet							
AP10	GW	10/26/2023	530.93	feet							
AP10	GW	2/21/2024	534.68	feet							
AP10	GW	5/13/2024	534.96	feet							
AP10	GW	8/13/2024	532.11	feet							
AP10	GW	11/12/2024	531.91	feet							
AP10	GW	2/19/2025	533.46	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AP10	GW	5/21/2025	533.58	feet							
AP10	GW	8/13/2025	532.61	feet							
AP10	GW	11/12/2025	529.77	feet							
AP10	GW	2/12/2026	530.11	feet							
AP10	GW	4/22/2026	532.9	feet							
AP10	GW	7/23/2026	533.37	feet							
AP11	GW	5/27/2021	530.11	feet							
AP11	GW	8/25/2021	522.78	feet							
AP11	GW	2/16/2022	526.89	feet							
AP11	GW	6/1/2022	524.9	feet							
AP11	GW	8/25/2022	522.68	feet							
AP11	GW	11/9/2022	523.8	feet							
AP11	GW	2/16/2023	524.49	feet							
AP11	GW	4/17/2023	523.9	feet							
AP11	GW	7/7/2023	523.39	feet							
AP11	GW	10/26/2023	522.14	feet							
AP11	GW	2/26/2024	523.68	feet							
AP11	GW	5/9/2024	528.35	feet							
AP11	GW	8/12/2024	522.28	feet							
AP11	GW	11/12/2024	522.67	feet							
AP11	GW	2/20/2025	522.86	feet							
AP11	GW	5/22/2025	526.07	feet							
AP11	GW	8/12/2025	522.41	feet							
AP11	GW	11/13/2025	522.52	feet							
AP11	GW	2/11/2026	522.68	feet							
AP11	GW	4/21/2026	524.07	feet							
AP11	GW	7/27/2026	523.08	feet							
AP12	GW	5/27/2021	527.88	feet							
AP12	GW	8/25/2021	523.45	feet							
AP12	GW	2/16/2022	526.52	feet							
AP12	GW	6/1/2022	526.43	feet							
AP12	GW	8/25/2022	523.41	feet							
AP12	GW	11/9/2022	523.68	feet							
AP12	GW	2/16/2023	524.49	feet							
AP12	GW	4/17/2023	525.74	feet							
AP12	GW	7/7/2023	524.07	feet							
AP12	GW	10/26/2023	522.26	feet							
AP12	GW	2/26/2024	523.35	feet							
AP12	GW	5/9/2024	528.46	feet							
AP12	GW	8/12/2024	522.66	feet							
AP12	GW	11/12/2024	522.78	feet							
AP12	GW	2/20/2025	522.62	feet							
AP12	GW	5/22/2025	525.54	feet							
AP12	GW	8/12/2025	522.67	feet							
AP12	GW	11/13/2025	522.46	feet							
AP12	GW	2/11/2026	522.57	feet							
AP12	GW	4/21/2026	525.03	feet							
AP12	GW	7/27/2026	523.16	feet							
AP13	GW	5/27/2021	533.65	feet							
AP13	GW	8/25/2021	524.52	feet							
AP13	GW	2/16/2022	527.68	feet							
AP13	GW	6/1/2022	526.1	feet							
AP13	GW	8/25/2022	524.2	feet							
AP13	GW	11/9/2022	524	feet							
AP13	GW	2/16/2023	523.3	feet							
AP13	GW	4/17/2023	528.09	feet							
AP13	GW	7/7/2023	524.43	feet							
AP13	GW	10/26/2023	522.12	feet							
AP13	GW	2/26/2024	524.9	feet							
AP13	GW	5/9/2024	531.18	feet							
AP13	GW	8/12/2024	523.8	feet							
AP13	GW	11/12/2024	522.6	feet							
AP13	GW	2/20/2025	523.56	feet							
AP13	GW	5/22/2025	527.27	feet							
AP13	GW	8/13/2025	523.35	feet							
AP13	GW	11/13/2025	521.96	feet							
AP13	GW	2/11/2026	522.23	feet							
AP13	GW	4/21/2026	524.96	feet							
AP13	GW	7/27/2026	524.65	feet							
AP14	GW	5/27/2021	537.82	feet							
AP14	GW	6/22/2021	536.59	feet							
AP14	GW	7/16/2021	538.48	feet							
AP14	GW	11/9/2021	537.49	feet							
AP14	GW	2/16/2022	538.17	feet							
AP14	GW	5/31/2022	537.8	feet							
AP14	GW	8/24/2022	536.91	feet							
AP14	GW	11/8/2022	537.59	feet							
AP14	GW	2/16/2023	538.58	feet							
AP14	GW	4/13/2023	537.2	feet							
AP14	GW	7/7/2023	538.12	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AP14	GW	10/26/2023	535.88	feet							
AP14	GW	2/23/2024	537.88	feet							
AP14	GW	5/14/2024	538.05	feet							
AP14	GW	8/13/2024	536.23	feet							
AP14	GW	11/12/2024	534.96	feet							
AP14	GW	5/27/2025	536.88	feet							
AP14	GW	8/13/2025	536.38	feet							
AP14	GW	11/13/2025	534.87	feet							
AP14	GW	2/12/2026	536.11	feet							
AP14	GW	7/23/2026	537.4	feet							
AP17	GW	6/18/2026	527.66	feet							
AP17	GW	7/23/2026	528.04	feet							
AP2	GW	11/18/2016	528.45	feet							
AP2	GW	11/18/2016	528.45	feet							
AP2	GW	2/16/2017	528.33	feet							
AP2	GW	2/16/2017	528.33	feet							
AP2	GW	8/3/2017	528	feet							
AP2	GW	8/3/2017	528	feet							
AP2	GW	11/9/2017	528.74	feet							
AP2	GW	11/9/2017	528.74	feet							
AP2	GW	1/31/2018	528	feet							
AP2	GW	1/31/2018	528	feet							
AP2	GW	5/4/2018	528.74	feet							
AP2	GW	5/4/2018	528.74	feet							
AP2	GW	8/1/2019	526.92	feet							
AP2	GW	11/1/2019	527.84	feet							
AP2	GW	3/5/2020	530.14	feet							
AP2	GW	8/5/2020	528.08	feet							
AP2	GW	11/23/2020	536.1	feet							
AP2	GW	1/21/2021	528.57	feet							
AP2	GW	5/27/2021	529.32	feet							
AP2	GW	8/25/2021	527.97	feet							
AP2	GW	11/9/2021	529.26	feet							
AP2	GW	2/15/2022	529.89	feet							
AP2	GW	5/31/2022	528.14	feet							
AP2	GW	8/23/2022	527.23	feet							
AP2	GW	11/8/2022	528.24	feet							
AP2	GW	1/27/2023	529.2	feet							
AP2	GW	4/12/2023	528.86	feet							
AP2	GW	7/7/2023	527.53	feet							
AP2	GW	10/26/2023	527.4	feet							
AP2	GW	2/22/2024	528.99	feet							
AP2	GW	5/13/2024	529.05	feet							
AP2	GW	8/12/2024	527.61	feet							
AP2	GW	11/11/2024	529.56	feet							
AP2	GW	2/18/2025	528.23	feet							
AP2	GW	5/21/2025	528.31	feet							
AP2	GW	8/12/2025	527.5	feet							
AP2	GW	11/12/2025	526.48	feet							
AP2	GW	2/12/2026	527.17	feet							
AP2	GW	4/21/2026	528.78	feet							
AP2	GW	7/24/2026	528.41	feet							
AP3	GW	11/18/2016	528.21	feet							
AP3	GW	2/16/2017	528.39	feet							
AP3	GW	8/3/2017	528.35	feet							
AP3	GW	11/9/2017	528.27	feet							
AP3	GW	1/31/2018	528.35	feet							
AP3	GW	5/4/2018	528.3	feet							
AP3	GW	8/1/2019	526.22	feet							
AP3	GW	11/1/2019	527.92	feet							
AP3	GW	3/5/2020	529.33	feet							
AP3	GW	8/5/2020	526.05	feet							
AP3	GW	11/23/2020	535.4	feet							
AP3	GW	1/21/2021	526.22	feet							
AP3	GW	5/27/2021	526.92	feet							
AP3	GW	8/25/2021	525.77	feet							
AP3	GW	11/9/2021	526.31	feet							
AP3	GW	2/15/2022	526.98	feet							
AP3	GW	5/31/2022	525.76	feet							
AP3	GW	8/23/2022	524.39	feet							
AP3	GW	11/8/2022	525.64	feet							
AP3	GW	1/27/2023	525.93	feet							
AP3	GW	4/12/2023	525.77	feet							
AP3	GW	7/7/2023	524.69	feet							
AP3	GW	10/26/2023	525.31	feet							
AP3	GW	2/22/2024	526.08	feet							
AP3	GW	5/13/2024	526.44	feet							
AP3	GW	8/29/2024	525.3	feet							
AP3	GW	11/11/2024	525.7	feet							
AP3	GW	2/19/2025	525.5	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AP3	GW	5/21/2025	527.58	feet							
AP3	GW	8/12/2025	526.52	feet							
AP3	GW	11/12/2025	525.37	feet							
AP3	GW	2/12/2026	525.27	feet							
AP3	GW	4/21/2026	525.95	feet							
AP3	GW	7/24/2026	525.64	feet							
AP4	GW	11/18/2016	547.53	feet							
AP4	GW	2/16/2017	547.58	feet							
AP4	GW	8/3/2017	548.38	feet							
AP4	GW	11/9/2017	546.88	feet							
AP4	GW	1/31/2018	548.38	feet							
AP4	GW	5/4/2018	547.18	feet							
AP4	GW	8/1/2019	550.02	feet							
AP4	GW	11/1/2019	547.86	feet							
AP4	GW	3/5/2020	547.55	feet							
AP4	GW	8/6/2020	548.14	feet							
AP4	GW	11/23/2020	559.2	feet							
AP4	GW	1/21/2021	546.5	feet							
AP4	GW	5/27/2021	547.29	feet							
AP4	GW	8/25/2021	550.35	feet							
AP4	GW	11/9/2021	549.99	feet							
AP4	GW	2/16/2022	550.78	feet							
AP4	GW	5/31/2022	550.12	feet							
AP4	GW	8/23/2022	550.35	feet							
AP4	GW	11/8/2022	550.38	feet							
AP4	GW	1/26/2023	549.23	feet							
AP4	GW	4/13/2023	546.08	feet							
AP4	GW	7/7/2023	546.65	feet							
AP4	GW	10/26/2023	544.81	feet							
AP4	GW	2/23/2024	546.56	feet							
AP4	GW	5/13/2024	546.92	feet							
AP4	GW	8/12/2024	544.77	feet							
AP4	GW	11/11/2024	544.69	feet							
AP4	GW	2/18/2025	544.92	feet							
AP4	GW	5/28/2025	545.22	feet							
AP4	GW	8/12/2025	544.74	feet							
AP4	GW	11/13/2025	542.66	feet							
AP4	GW	2/11/2026	542.66	feet							
AP4	GW	4/21/2026	544.78	feet							
AP4	GW	7/24/2026	545.49	feet							
AP5	GW	11/18/2016	564.42	feet							
AP5	GW	2/16/2017	566.46	feet							
AP5	GW	8/3/2017	564.35	feet							
AP5	GW	11/9/2017	563	feet							
AP5	GW	1/31/2018	564.35	feet							
AP5	GW	5/4/2018	570.36	feet							
AP5	GW	8/1/2019	574.72	feet							
AP5	GW	11/1/2019	569.05	feet							
AP5	GW	3/5/2020	580.07	feet							
AP5	GW	8/6/2020	566.07	feet							
AP5	GW	11/23/2020	583.9	feet							
AP5	GW	1/21/2021	563.34	feet							
AP5	GW	5/27/2021	573.78	feet							
AP5	GW	8/25/2021	572.01	feet							
AP5	GW	11/10/2021	570.56	feet							
AP5	GW	2/16/2022	571.49	feet							
AP5	GW	5/31/2022	573.85	feet							
AP5	GW	8/23/2022	569.55	feet							
AP5	GW	11/8/2022	572.2	feet							
AP5	GW	1/27/2023	569.03	feet							
AP5	GW	4/13/2023	570.85	feet							
AP5	GW	7/7/2023	569.82	feet							
AP5	GW	10/26/2023	565.73	feet							
AP5	GW	2/22/2024	567.95	feet							
AP5	GW	5/14/2024	570.3	feet							
AP5	GW	8/12/2024	566.56	feet							
AP5	GW	11/11/2024	567.62	feet							
AP5	GW	2/18/2025	568.92	feet							
AP5	GW	5/21/2025	569.49	feet							
AP5	GW	8/12/2025	567.96	feet							
AP5	GW	11/13/2025	563.28	feet							
AP5	GW	2/11/2026	564.68	feet							
AP5	GW	4/21/2026	569.24	feet							
AP5	GW	7/24/2026	569.94	feet							
AP6	GW	8/1/2019	528.64	feet							
AP6	GW	2/27/2020	531.08	feet							
AP6	GW	8/5/2020	528.39	feet							
AP6	GW	11/23/2020	537.82	feet							
AP6	GW	1/21/2021	527.93	feet							
AP6	GW	5/26/2021	531.38	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AP6	GW	8/25/2021	531.71	feet							
AP6	GW	11/10/2021	530.62	feet							
AP6	GW	2/15/2022	530.04	feet							
AP6	GW	5/31/2022	530.02	feet							
AP6	GW	8/23/2022	528.6	feet							
AP6	GW	11/8/2022	528.62	feet							
AP6	GW	1/27/2023	529.87	feet							
AP6	GW	4/12/2023	530.39	feet							
AP6	GW	7/6/2023	528.34	feet							
AP6	GW	10/26/2023	527.76	feet							
AP6	GW	2/22/2024	529.97	feet							
AP6	GW	5/10/2024	531.25	feet							
AP6	GW	8/12/2024	528.07	feet							
AP6	GW	11/11/2024	528.01	feet							
AP6	GW	2/18/2025	529.26	feet							
AP6	GW	5/21/2025	530.05	feet							
AP6	GW	8/12/2025	529.69	feet							
AP6	GW	11/13/2025	526.49	feet							
AP6	GW	2/12/2026	526.53	feet							
AP6	GW	4/21/2026	527.1	feet							
AP6	GW	7/27/2026	529.55	feet							
AP7	GW	8/1/2019	529.84	feet							
AP7	GW	2/27/2020	530.41	feet							
AP7	GW	8/5/2020	527.66	feet							
AP7	GW	11/23/2020	539.02	feet							
AP7	GW	1/21/2021	525.93	feet							
AP7	GW	5/26/2021	528.62	feet							
AP7	GW	8/25/2021	530.92	feet							
AP7	GW	11/10/2021	529.14	feet							
AP7	GW	2/15/2022	528.13	feet							
AP7	GW	6/1/2022	529.12	feet							
AP7	GW	8/25/2022	527.81	feet							
AP7	GW	11/9/2022	527.5	feet							
AP7	GW	2/16/2023	525.54	feet							
AP7	GW	4/17/2023	528.56	feet							
AP7	GW	7/7/2023	527.7	feet							
AP7	GW	10/26/2023	526.57	feet							
AP7	GW	2/26/2024	527.94	feet							
AP7	GW	5/14/2024	529.15	feet							
AP7	GW	8/12/2024	527	feet							
AP7	GW	11/13/2024	526.58	feet							
AP7	GW	2/20/2025	527.1	feet							
AP7	GW	5/27/2025	528.38	feet							
AP7	GW	8/13/2025	527.31	feet							
AP7	GW	11/13/2025	525.1	feet							
AP7	GW	2/11/2026	524.88	feet							
AP7	GW	4/21/2026	526.2	feet							
AP7	GW	7/27/2026	527.46	feet							
AP8	GW	5/26/2021	533.29	feet							
AP8	GW	6/22/2021	531.65	feet							
AP8	GW	7/16/2021	533.39	feet							
AP8	GW	11/10/2021	532.38	feet							
AP8	GW	2/15/2022	530.79	feet							
AP8	GW	5/31/2022	532.17	feet							
AP8	GW	8/23/2022	529.9	feet							
AP8	GW	11/8/2022	530.55	feet							
AP8	GW	1/27/2023	532	feet							
AP8	GW	4/12/2023	532.85	feet							
AP8	GW	7/7/2023	530.46	feet							
AP8	GW	10/26/2023	529.13	feet							
AP8	GW	2/21/2024	532.72	feet							
AP8	GW	5/10/2024	533.46	feet							
AP8	GW	8/13/2024	530.23	feet							
AP8	GW	11/13/2024	529.88	feet							
AP8	GW	2/19/2025	531.69	feet							
AP8	GW	5/21/2025	533.19	feet							
AP8	GW	8/13/2025	531.24	feet							
AP8	GW	11/13/2025	527.72	feet							
AP8	GW	2/12/2026	528.44	feet							
AP8	GW	4/21/2026	531.27	feet							
AP8	GW	7/22/2026	531.77	feet							
AP9	GW	5/27/2021	524.96	feet							
AP9	GW	8/25/2021	527.03	feet							
AP9	GW	2/15/2022	529.4	feet							
AP9	GW	6/1/2022	528.69	feet							
AP9	GW	8/25/2022	527.56	feet							
AP9	GW	11/9/2022	527.92	feet							
AP9	GW	2/16/2023	529.27	feet							
AP9	GW	4/17/2023	528.17	feet							
AP9	GW	7/7/2023	527.82	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AP9	GW	10/26/2023	526.43	feet							
AP9	GW	2/26/2024	528.25	feet							
AP9	GW	5/14/2024	528.43	feet							
AP9	GW	8/12/2024	526.41	feet							
AP9	GW	11/13/2024	527.07	feet							
AP9	GW	2/20/2025	527.01	feet							
AP9	GW	5/27/2025	527.81	feet							
AP9	GW	8/13/2025	526.66	feet							
AP9	GW	11/13/2025	526.11	feet							
AP9	GW	2/11/2026	526.21	feet							
AP9	GW	4/21/2026	528.48	feet							
AP9	GW	7/27/2026	527.17	feet							
AW1	GW	11/18/2016	539.19	feet							
AW1	GW	2/15/2017	541.9	feet							
AW1	GW	5/5/2017	543.07	feet							
AW1	GW	8/3/2017	541.27	feet							
AW1	GW	11/10/2017	541.94	feet							
AW1	GW	1/31/2018	541.88	feet							
AW1	GW	5/4/2018	541.32	feet							
AW1	GW	7/9/2018	541.36	feet							
AW1	GW	2/13/2019	542.65	feet							
AW1	GW	5/20/2019	542	feet							
AW1	GW	8/1/2019	541.23	feet							
AW1	GW	11/1/2019	542.76	feet							
AW1	GW	2/27/2020	544.4	feet							
AW1	GW	5/6/2020	543.45	feet							
AW1	GW	8/4/2020	541.97	feet							
AW1	GW	11/23/2020	541.06	feet							
AW1	GW	1/20/2021	541.86	feet							
AW1	GW	5/28/2021	543.11	feet							
AW1	GW	8/25/2021	538.85	feet							
AW1	GW	11/10/2021	542.47	feet							
AW1	GW	2/16/2022	541.46	feet							
AW1	GW	6/2/2022	541.55	feet							
AW1	GW	8/24/2022	539.31	feet							
AW1	GW	11/9/2022	540.7	feet							
AW1	GW	1/26/2023	542.45	feet							
AW1	GW	4/11/2023	542.23	feet							
AW1	GW	7/5/2023	540.91	feet							
AW1	GW	10/25/2023	538.22	feet							
AW1	GW	2/1/2024	543.73	feet							
AW1	GW	5/10/2024	542.97	feet							
AW1	GW	8/13/2024	540.03	feet							
AW1	GW	11/11/2024	541.06	feet							
AW1	GW	2/20/2025	542.15	feet							
AW1	GW	5/22/2025	541.83	feet							
AW1	GW	8/12/2025	540.59	feet							
AW1	GW	11/13/2025	536.34	feet							
AW1	GW	2/11/2026	537.69	feet							
AW1	GW	4/23/2026	540.64	feet							
AW1	GW	6/18/2026	541.04	feet							
AW1	GW	7/22/2026	542.32	feet							
AW2	GW	11/18/2016	523.95	feet							
AW2	GW	2/15/2017	525.18	feet							
AW2	GW	5/5/2017	529.97	feet							
AW2	GW	8/3/2017	523.14	feet							
AW2	GW	11/10/2017	521.79	feet							
AW2	GW	1/31/2018	523.86	feet							
AW2	GW	5/4/2018	526.15	feet							
AW2	GW	7/9/2018	526.2	feet							
AW2	GW	5/20/2019	526.42	feet							
AW2	GW	8/1/2019	523.9	feet							
AW2	GW	11/1/2019	527	feet							
AW2	GW	2/27/2020	526.73	feet							
AW2	GW	5/6/2020	528.59	feet							
AW2	GW	8/4/2020	523.99	feet							
AW2	GW	11/23/2020	522.61	feet							
AW2	GW	1/20/2021	524.34	feet							
AW2	GW	5/28/2021	526.46	feet							
AW2	GW	8/25/2021	523.79	feet							
AW2	GW	11/10/2021	526.39	feet							
AW2	GW	2/16/2022	526.5	feet							
AW2	GW	6/2/2022	526.38	feet							
AW2	GW	8/24/2022	523.84	feet							
AW2	GW	11/9/2022	524.8	feet							
AW2	GW	1/26/2023	523.57	feet							
AW2	GW	4/11/2023	525.78	feet							
AW2	GW	7/6/2023	524.22	feet							
AW2	GW	10/25/2023	522.57	feet							
AW2	GW	2/21/2024	526.11	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
AW2	GW	5/13/2024	526.69	feet							
AW2	GW	8/12/2024	523.69	feet							
AW2	GW	11/13/2024	525.47	feet							
AW2	GW	2/20/2025	525.45	feet							
AW2	GW	3/18/2025	526.99	feet							
AW2	GW	4/24/2025	526.19	feet							
AW2	GW	5/22/2025	525.06	feet							
AW2	GW	8/11/2025	523.96	feet							
AW2	GW	11/13/2025	521.46	feet							
AW2	GW	2/11/2026	523.31	feet							
AW2	GW	4/22/2026	525.54	feet							
AW2	GW	6/18/2026	526.53	feet							
AW2	GW	7/23/2026	526.77	feet							
AW4	GW	6/17/2026	534.59	feet							
AW4	GW	7/27/2026	530.12	feet							
AW5	GW	6/18/2026	528.85	feet							
AW5	GW	7/23/2026	528.35	feet							
AW6	GW	6/18/2026	525.25	feet							
AW6	GW	7/22/2026	526.05	feet							
G110	GW	11/18/2016	532.36	feet							
G110	GW	2/15/2017	533.2	feet							
G110	GW	5/5/2017	534.54	feet							
G110	GW	8/3/2017	532.58	feet							
G110	GW	11/10/2017	531.7	feet							
G110	GW	1/31/2018	532.3	feet							
G110	GW	5/4/2018	533.12	feet							
G110	GW	7/9/2018	531.93	feet							
G110	GW	2/13/2019	534.08	feet							
G110	GW	5/20/2019	533.91	feet							
G110	GW	8/1/2019	532.65	feet							
G110	GW	11/1/2019	534.02	feet							
G110	GW	2/27/2020	534.15	feet							
G110	GW	5/6/2020	534.5	feet							
G110	GW	8/5/2020	533.06	feet							
G110	GW	11/23/2020	531.99	feet							
G110	GW	1/20/2021	532.78	feet							
G110	GW	5/28/2021	529.8	feet							
G110	GW	8/25/2021	533.01	feet							
G110	GW	11/10/2021	533.68	feet							
G110	GW	2/17/2022	534.77	feet							
G110	GW	6/2/2022	534.54	feet							
G110	GW	9/29/2022	533.13	feet							
G110	GW	11/9/2022	533.3	feet							
G110	GW	1/26/2023	534.19	feet							
G110	GW	4/12/2023	533.73	feet							
G110	GW	7/6/2023	532.93	feet							
G110	GW	10/26/2023	531.48	feet							
G110	GW	2/1/2024	533.84	feet							
G110	GW	5/8/2024	534.01	feet							
G110	GW	8/13/2024	531.48	feet							
G110	GW	11/13/2024	532.44	feet							
G110	GW	2/19/2025	532.8	feet							
G110	GW	5/21/2025	532.35	feet							
G110	GW	8/13/2025	532	feet							
G110	GW	11/12/2025	529.89	feet							
G110	GW	2/11/2026	531.11	feet							
G110	GW	4/23/2026	532.49	feet							
G110	GW	7/22/2026	533.84	feet							
G112	GW	11/18/2016	524.4	feet							
G112	GW	2/16/2017	526.66	feet							
G112	GW	5/5/2017	528.53	feet							
G112	GW	8/3/2017	525.98	feet							
G112	GW	11/10/2017	525.21	feet							
G112	GW	1/31/2018	524.74	feet							
G112	GW	5/4/2018	527.34	feet							
G112	GW	7/9/2018	525.58	feet							
G112	GW	2/13/2019	528.3	feet							
G112	GW	5/20/2019	527.73	feet							
G112	GW	8/1/2019	525.87	feet							
G112	GW	11/1/2019	527.57	feet							
G112	GW	2/27/2020	528.13	feet							
G112	GW	5/6/2020	528.66	feet							
G112	GW	8/4/2020	526.68	feet							
G112	GW	11/23/2020	525.46	feet							
G112	GW	1/21/2021	526.97	feet							
G112	GW	5/28/2021	527	feet							
G112	GW	8/25/2021	526.11	feet							
G112	GW	11/10/2021	527.58	feet							
G112	GW	2/17/2022	527.25	feet							
G112	GW	6/2/2022	527.59	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
G112	GW	8/24/2022	525.37	feet							
G112	GW	11/9/2022	526.05	feet							
G112	GW	1/26/2023	526.25	feet							
G112	GW	4/10/2023	527.23	feet							
G112	GW	7/6/2023	530.35	feet							
G112	GW	10/25/2023	524.38	feet							
G112	GW	2/22/2024	528.3	feet							
G112	GW	5/9/2024	527.81	feet							
G112	GW	8/13/2024	525.83	feet							
G112	GW	11/11/2024	527	feet							
G112	GW	2/20/2025	526.31	feet							
G112	GW	5/21/2025	537.26	feet							
G112	GW	8/12/2025	525.89	feet							
G112	GW	11/13/2025	523.4	feet							
G112	GW	2/11/2026	525.87	feet							
G112	GW	4/23/2026	526.93	feet							
G112	GW	7/23/2026	528.46	feet							
G120	GW	11/18/2016	535.6	feet							
G120	GW	2/15/2017	536.84	feet							
G120	GW	5/5/2017	538.16	feet							
G120	GW	8/3/2017	545.66	feet							
G120	GW	11/10/2017	536.19	feet							
G120	GW	1/31/2018	536.54	feet							
G120	GW	5/4/2018	536.31	feet							
G120	GW	7/9/2018	536.35	feet							
G120	GW	2/13/2019	538.03	feet							
G120	GW	5/20/2019	537.62	feet							
G120	GW	8/1/2019	534.71	feet							
G120	GW	11/1/2019	537.58	feet							
G120	GW	2/27/2020	539.01	feet							
G120	GW	5/6/2020	538.68	feet							
G120	GW	8/4/2020	536.49	feet							
G120	GW	11/23/2020	535.91	feet							
G120	GW	1/20/2021	537.12	feet							
G120	GW	5/28/2021	536.7	feet							
G120	GW	8/25/2021	535.32	feet							
G120	GW	11/10/2021	537.7	feet							
G120	GW	2/16/2022	537.19	feet							
G120	GW	6/2/2022	536.92	feet							
G120	GW	8/23/2022	535.11	feet							
G120	GW	11/9/2022	537.06	feet							
G120	GW	1/26/2023	537.85	feet							
G120	GW	4/10/2023	538.17	feet							
G120	GW	7/5/2023	535.54	feet							
G120	GW	10/25/2023	534.49	feet							
G120	GW	2/2/2024	538.47	feet							
G120	GW	5/9/2024	538.31	feet							
G120	GW	8/13/2024	535.45	feet							
G120	GW	11/13/2024	536.38	feet							
G120	GW	2/21/2025	537.21	feet							
G120	GW	5/21/2025	536.92	feet							
G120	GW	8/12/2025	535	feet							
G120	GW	11/13/2025	532.38	feet							
G120	GW	2/12/2026	533.5	feet							
G120	GW	4/22/2026	536.67	feet							
G120	GW	6/17/2026	536.19	feet							
G120	GW	7/22/2026	537.72	feet							
G121	GW	11/18/2016	526.3	feet							
G121	GW	2/15/2017	526.97	feet							
G121	GW	5/5/2017	532.16	feet							
G121	GW	8/3/2017	526.19	feet							
G121	GW	11/10/2017	524.91	feet							
G121	GW	1/31/2018	525.49	feet							
G121	GW	5/4/2018	525.66	feet							
G121	GW	7/9/2018	525.74	feet							
G121	GW	2/13/2019	529.95	feet							
G121	GW	5/20/2019	528.57	feet							
G121	GW	8/1/2019	525.24	feet							
G121	GW	11/1/2019	528.41	feet							
G121	GW	2/27/2020	530.68	feet							
G121	GW	5/6/2020	531.4	feet							
G121	GW	8/4/2020	526.68	feet							
G121	GW	11/23/2020	525.15	feet							
G121	GW	1/20/2021	525.95	feet							
G121	GW	5/27/2021	529.23	feet							
G121	GW	8/25/2021	526.81	feet							
G121	GW	11/10/2021	528.84	feet							
G121	GW	2/16/2022	528.62	feet							
G121	GW	6/2/2022	529.2	feet							
G121	GW	8/23/2022	526.65	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
G121	GW	11/9/2022	526.59	feet							
G121	GW	1/26/2023	528.22	feet							
G121	GW	4/10/2023	528.75	feet							
G121	GW	7/5/2023	526.58	feet							
G121	GW	10/25/2023	525.06	feet							
G121	GW	2/2/2024	529.06	feet							
G121	GW	5/9/2024	528.84	feet							
G121	GW	8/13/2024	526.26	feet							
G121	GW	11/11/2024	521.07	feet							
G121	GW	2/20/2025	527.35	feet							
G121	GW	3/18/2025	528.17	feet							
G121	GW	4/24/2025	528.47	feet							
G121	GW	5/22/2025	527.78	feet							
G121	GW	8/11/2025	526.75	feet							
G121	GW	11/13/2025	524.89	feet							
G121	GW	2/11/2026	524.69	feet							
G121	GW	4/22/2026	527.27	feet							
G121	GW	6/18/2026	527.82	feet							
G121	GW	7/23/2026	527.76	feet							
G122	GW	11/18/2016	523.97	feet							
G122	GW	2/15/2017	524.97	feet							
G122	GW	5/5/2017	532.75	feet							
G122	GW	8/3/2017	523.2	feet							
G122	GW	11/10/2017	521.99	feet							
G122	GW	1/31/2018	522.8	feet							
G122	GW	5/4/2018	523.88	feet							
G122	GW	7/9/2018	523.97	feet							
G122	GW	2/13/2019	528.92	feet							
G122	GW	5/20/2019	527.3	feet							
G122	GW	8/1/2019	523.91	feet							
G122	GW	11/1/2019	527.78	feet							
G122	GW	2/27/2020	528.47	feet							
G122	GW	5/6/2020	530.17	feet							
G122	GW	8/4/2020	523.89	feet							
G122	GW	11/23/2020	522.17	feet							
G122	GW	1/20/2021	523.64	feet							
G122	GW	5/28/2021	526.76	feet							
G122	GW	8/25/2021	524.33	feet							
G122	GW	11/10/2021	526.15	feet							
G122	GW	2/16/2022	526.1	feet							
G122	GW	6/2/2022	525.7	feet							
G122	GW	8/23/2022	523.5	feet							
G122	GW	11/9/2022	523.14	feet							
G122	GW	1/26/2023	525.55	feet							
G122	GW	4/10/2023	525.7	feet							
G122	GW	7/6/2023	523.46	feet							
G122	GW	10/25/2023	522.16	feet							
G122	GW	2/2/2024	527.69	feet							
G122	GW	5/9/2024	526.73	feet							
G122	GW	8/13/2024	523.19	feet							
G122	GW	11/11/2024	524.16	feet							
G122	GW	2/20/2025	524.68	feet							
G122	GW	3/18/2025	525.21	feet							
G122	GW	4/24/2025	525.61	feet							
G122	GW	5/22/2025	524.65	feet							
G122	GW	8/11/2025	522.28	feet							
G122	GW	11/13/2025	520.59	feet							
G122	GW	2/11/2026	521.92	feet							
G122	GW	4/22/2026	524.45	feet							
G122	GW	6/18/2026	526.56	feet							
G122	GW	7/24/2026	526.5	feet							
GP1	GW	8/1/2019	530.26	feet							
GP1	GW	8/5/2020	526.81	feet							
GP1	GW	11/23/2020	539.44	feet							
GP1	GW	5/27/2021	529.48	feet							
GP1	GW	8/24/2021	527.65	feet							
GP3	GW	8/1/2019	542.64	feet							
GP3	GW	8/5/2020	531.36	feet							
GP3	GW	11/23/2020	551.82	feet							
GP3	GW	5/27/2021	534.69	feet							
GP3	GW	8/24/2021	532.17	feet							
GP7	GW	5/27/2021	526.38	feet							
GP7	GW	8/12/2025	524.23	feet							
GP8	GW	8/5/2020	524.06	feet							
GP8	GW	11/23/2020	533.12	feet							
P03D	GW	8/11/2025	524.53	feet							
P04D	GW	2/16/2017	531.76	feet							
P04D	GW	6/1/2017	532.87	feet							
P04D	GW	1/31/2018	529	feet							
P04D	GW	5/4/2018	529.14	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
P04D	GW	7/9/2018	533.51	feet							
P04D	GW	10/26/2018	534.71	feet							
P04D	GW	11/1/2019	531.13	feet							
P04D	GW	2/27/2020	535.79	feet							
P04D	GW	5/6/2020	536.06	feet							
P04D	GW	8/5/2020	541.01	feet							
P04D	GW	11/23/2020	526.25	feet							
P04D	GW	1/22/2021	525.75	feet							
P04D	GW	1/22/2021	525.75	feet							
P04D	GW	5/27/2021	541.01	feet							
P04D	GW	5/27/2021	541.01	feet							
P04D	GW	8/25/2021	532.93	feet							
P04D	GW	8/25/2021	532.93	feet							
P04D	GW	8/11/2025	526.68	feet							
P05D	GW	11/17/2016	535.2	feet							
P05D	GW	2/16/2017	532.08	feet							
P05D	GW	6/1/2017	533.19	feet							
P05D	GW	8/2/2017	531.7	feet							
P05D	GW	11/9/2017	530.81	feet							
P05D	GW	1/31/2018	536.54	feet							
P05D	GW	5/4/2018	536.81	feet							
P05D	GW	7/9/2018	531.21	feet							
P05D	GW	10/26/2018	531.77	feet							
P05D	GW	11/1/2019	529.94	feet							
P05D	GW	2/27/2020	533.47	feet							
P05D	GW	5/6/2020	533.59	feet							
P05D	GW	8/5/2020	530.36	feet							
P05D	GW	11/23/2020	524.93	feet							
P05D	GW	1/22/2021	524.37	feet							
P05D	GW	1/22/2021	524.37	feet							
P05D	GW	5/27/2021	532.73	feet							
P05D	GW	5/27/2021	532.73	feet							
P05D	GW	8/25/2021	531.48	feet							
P05D	GW	8/25/2021	531.48	feet							
P06D	GW	11/17/2016	526.7	feet							
P06D	GW	2/16/2017	534.2	feet							
P06D	GW	6/1/2017	534.2	feet							
P06D	GW	8/2/2017	524.7	feet							
P06D	GW	11/9/2017	524.7	feet							
P06D	GW	1/31/2018	524.7	feet							
P06D	GW	5/4/2018	524.7	feet							
P06D	GW	7/9/2018	524.7	feet							
P06D	GW	10/26/2018	524.7	feet							
P06D	GW	11/1/2019	524.7	feet							
P06D	GW	2/27/2020	524.7	feet							
P06D	GW	2/27/2020	524.7	feet							
P06D	GW	5/6/2020	524.7	feet							
P06D	GW	5/6/2020	524.7	feet							
P06D	GW	8/5/2020	525.2	feet							
P06D	GW	8/5/2020	525.2	feet							
P06D	GW	11/23/2020	524.7	feet							
P06D	GW	11/23/2020	524.7	feet							
P06D	GW	1/22/2021	524.7	feet							
P06D	GW	1/22/2021	524.7	feet							
P06D	GW	5/27/2021	524.7	feet							
P06D	GW	5/27/2021	524.7	feet							
P06D	GW	8/25/2021	524.7	feet							
P06D	GW	8/25/2021	524.7	feet							
P07D	GW	11/17/2016	523.38	feet							
P07D	GW	2/16/2017	524.86	feet							
P07D	GW	6/1/2017	525.94	feet							
P07D	GW	8/2/2017	525.25	feet							
P07D	GW	11/9/2017	524.42	feet							
P07D	GW	1/31/2018	526.23	feet							
P07D	GW	5/4/2018	526.48	feet							
P07D	GW	7/9/2018	522.52	feet							
P07D	GW	10/26/2018	524.28	feet							
P07D	GW	11/1/2019	526	feet							
P07D	GW	2/27/2020	526.5	feet							
P07D	GW	2/27/2020	526.5	feet							
P07D	GW	5/6/2020	526.5	feet							
P07D	GW	5/6/2020	526.5	feet							
P07D	GW	8/5/2020	526	feet							
P07D	GW	8/5/2020	526	feet							
P07D	GW	11/23/2020	526.5	feet							
P07D	GW	11/23/2020	526.5	feet							
P07D	GW	1/22/2021	526.5	feet							
P07D	GW	1/22/2021	526.5	feet							
P07D	GW	5/27/2021	526.5	feet							
P07D	GW	5/27/2021	526.5	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
P07D	GW	8/25/2021	526.5	feet							
P07D	GW	8/25/2021	526.5	feet							
P07D	GW	8/12/2024	522	feet							
P07D	GW	11/13/2024	523.88	feet							
P07D	GW	2/20/2025	523.76	feet							
P07D	GW	3/18/2025	524.07	feet							
P07D	GW	4/24/2025	524.26	feet							
P07D	GW	5/27/2025	522.94	feet							
P07D	GW	8/11/2025	523.23	feet							
P07D	GW	2/12/2026	522.09	feet							
P07D	GW	6/17/2026	524.76	feet							
P07D	GW	7/23/2026	525.41	feet							
P09D	GW	11/17/2016	525.46	feet							
P09D	GW	2/16/2017	526.81	feet							
P09D	GW	6/1/2017	527.57	feet							
P09D	GW	8/2/2017	526.93	feet							
P09D	GW	11/9/2017	526.02	feet							
P09D	GW	1/31/2018	528.21	feet							
P09D	GW	5/4/2018	529.03	feet							
P09D	GW	7/9/2018	524.67	feet							
P09D	GW	10/26/2018	527	feet							
P09D	GW	11/1/2019	527.92	feet							
P09D	GW	2/27/2020	528.02	feet							
P09D	GW	2/27/2020	528.02	feet							
P09D	GW	5/6/2020	528.36	feet							
P09D	GW	5/6/2020	528.36	feet							
P09D	GW	8/5/2020	526.21	feet							
P09D	GW	8/5/2020	526.21	feet							
P09D	GW	11/23/2020	525.83	feet							
P09D	GW	11/23/2020	525.83	feet							
P09D	GW	1/22/2021	526.16	feet							
P09D	GW	1/22/2021	526.16	feet							
P09D	GW	5/27/2021	527.37	feet							
P09D	GW	5/27/2021	527.37	feet							
P09D	GW	8/25/2021	526.27	feet							
P09D	GW	8/25/2021	526.27	feet							
P104	GW	11/17/2016	523.74	feet							
P104	GW	2/16/2017	524.83	feet							
P104	GW	6/1/2017	525.25	feet							
P104	GW	8/2/2017	524.65	feet							
P104	GW	11/9/2017	524.12	feet							
P104	GW	1/31/2018	521.98	feet							
P104	GW	5/4/2018	522.04	feet							
P104	GW	7/9/2018	523.39	feet							
P104	GW	10/26/2018	524.07	feet							
P104	GW	11/1/2019	530.04	feet							
P104	GW	2/27/2020	527.54	feet							
P104	GW	5/6/2020	527.96	feet							
P104	GW	8/5/2020	523.76	feet							
P104	GW	11/23/2020	521.2	feet							
P104	GW	1/22/2021	523.2	feet							
P104	GW	5/27/2021	533	feet							
P104	GW	8/25/2021	524.14	feet							
P104	GW	8/11/2025	522.25	feet							
P106	GW	11/17/2016	523.75	feet							
P106	GW	2/16/2017	525.35	feet							
P106	GW	6/1/2017	527.6	feet							
P106	GW	8/2/2017	525.02	feet							
P106	GW	11/9/2017	525.34	feet							
P106	GW	1/31/2018	525.25	feet							
P106	GW	5/4/2018	525.34	feet							
P106	GW	7/9/2018	522.91	feet							
P106	GW	10/26/2018	524.74	feet							
P106	GW	11/1/2019	524.9	feet							
P106	GW	2/27/2020	526.1	feet							
P106	GW	5/6/2020	0	feet							
P106	GW	8/5/2020	524.9	feet							
P106	GW	11/23/2020	522.6	feet							
P106	GW	1/22/2021	524.6	feet							
P106	GW	5/27/2021	524.6	feet							
P106	GW	8/25/2021	524.6	feet							
R101	GW	11/18/2016	537.86	feet							
R101	GW	2/16/2017	538.38	feet							
R101	GW	5/5/2017	543.93	feet							
R101	GW	8/3/2017	538.33	feet							
R101	GW	11/10/2017	537.55	feet							
R101	GW	1/31/2018	537.96	feet							
R101	GW	5/4/2018	539.93	feet							
R101	GW	7/9/2018	538.67	feet							
R101	GW	10/26/2018	546.8	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
R101	GW	2/13/2019	541.58	feet							
R101	GW	5/20/2019	541.69	feet							
R101	GW	8/1/2019	539.66	feet							
R101	GW	11/1/2019	540.04	feet							
R101	GW	2/27/2020	543.75	feet							
R101	GW	5/6/2020	544.89	feet							
R101	GW	8/4/2020	539.69	feet							
R101	GW	11/23/2020	538.33	feet							
R101	GW	1/21/2021	538.59	feet							
R101	GW	5/28/2021	540.6	feet							
R101	GW	8/25/2021	539.49	feet							
R101	GW	11/10/2021	540.83	feet							
R101	GW	2/17/2022	543.89	feet							
R101	GW	6/2/2022	542.47	feet							
R101	GW	8/24/2022	539.52	feet							
R101	GW	11/9/2022	539.71	feet							
R101	GW	1/26/2023	541.5	feet							
R101	GW	4/11/2023	541	feet							
R101	GW	7/7/2023	539.39	feet							
R101	GW	10/25/2023	538.07	feet							
R101	GW	2/23/2024	540.14	feet							
R101	GW	5/13/2024	540.85	feet							
R101	GW	8/12/2024	539.24	feet							
R101	GW	11/11/2024	539.35	feet							
R101	GW	2/21/2025	539.91	feet							
R101	GW	3/18/2025	542.27	feet							
R101	GW	4/24/2025	541.61	feet							
R101	GW	5/27/2025	539.92	feet							
R101	GW	8/11/2025	539.31	feet							
R101	GW	11/12/2025	536.97	feet							
R101	GW	2/11/2026	537.96	feet							
R101	GW	4/22/2026	539.97	feet							
R101	GW	6/18/2026	539.21	feet							
R101	GW	7/22/2026	540.34	feet							
R103	GW	11/17/2016	528.87	feet							
R103	GW	2/16/2017	529.71	feet							
R103	GW	8/3/2017	529.83	feet							
R103	GW	11/9/2017	529.39	feet							
R103	GW	1/31/2018	527.58	feet							
R103	GW	5/4/2018	529.05	feet							
R103	GW	7/9/2018	527.98	feet							
R103	GW	10/26/2018	528.86	feet							
R103	GW	11/1/2019	529.38	feet							
R103	GW	2/27/2020	532.09	feet							
R103	GW	5/6/2020	532.59	feet							
R103	GW	8/5/2020	526.24	feet							
R103	GW	11/23/2020	523.79	feet							
R103	GW	1/22/2021	526.38	feet							
R103	GW	5/27/2021	538.6	feet							
R103	GW	8/25/2021	526.86	feet							
R103	GW	8/11/2025	525.59	feet							
R111	GW	11/18/2016	527.9	feet							
R111	GW	2/15/2017	528.83	feet							
R111	GW	5/5/2017	530.46	feet							
R111	GW	8/3/2017	527.98	feet							
R111	GW	11/10/2017	527.36	feet							
R111	GW	1/31/2018	528.21	feet							
R111	GW	5/4/2018	528.97	feet							
R111	GW	7/9/2018	527.43	feet							
R111	GW	2/13/2019	532.28	feet							
R111	GW	5/20/2019	529.46	feet							
R111	GW	8/1/2019	527.75	feet							
R111	GW	11/1/2019	529.39	feet							
R111	GW	2/27/2020	530	feet							
R111	GW	5/6/2020	530.41	feet							
R111	GW	8/4/2020	528.68	feet							
R111	GW	11/23/2020	527.56	feet							
R111	GW	1/21/2021	528.69	feet							
R111	GW	5/28/2021	529.54	feet							
R111	GW	9/23/2021	529.26	feet							
R111	GW	11/10/2021	529.45	feet							
R111	GW	2/17/2022	529.87	feet							
R111	GW	6/2/2022	529.4	feet							
R111	GW	8/24/2022	528.2	feet							
R111	GW	11/9/2022	528.85	feet							
R111	GW	1/26/2023	528.34	feet							
R111	GW	4/10/2023	529.34	feet							
R111	GW	7/6/2023	528.47	feet							
R111	GW	10/26/2023	527.13	feet							
R111	GW	2/2/2024	529.66	feet							

GWSDAT

GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

Author: Wayne.W.Jones@Shell.com Version: 3.30

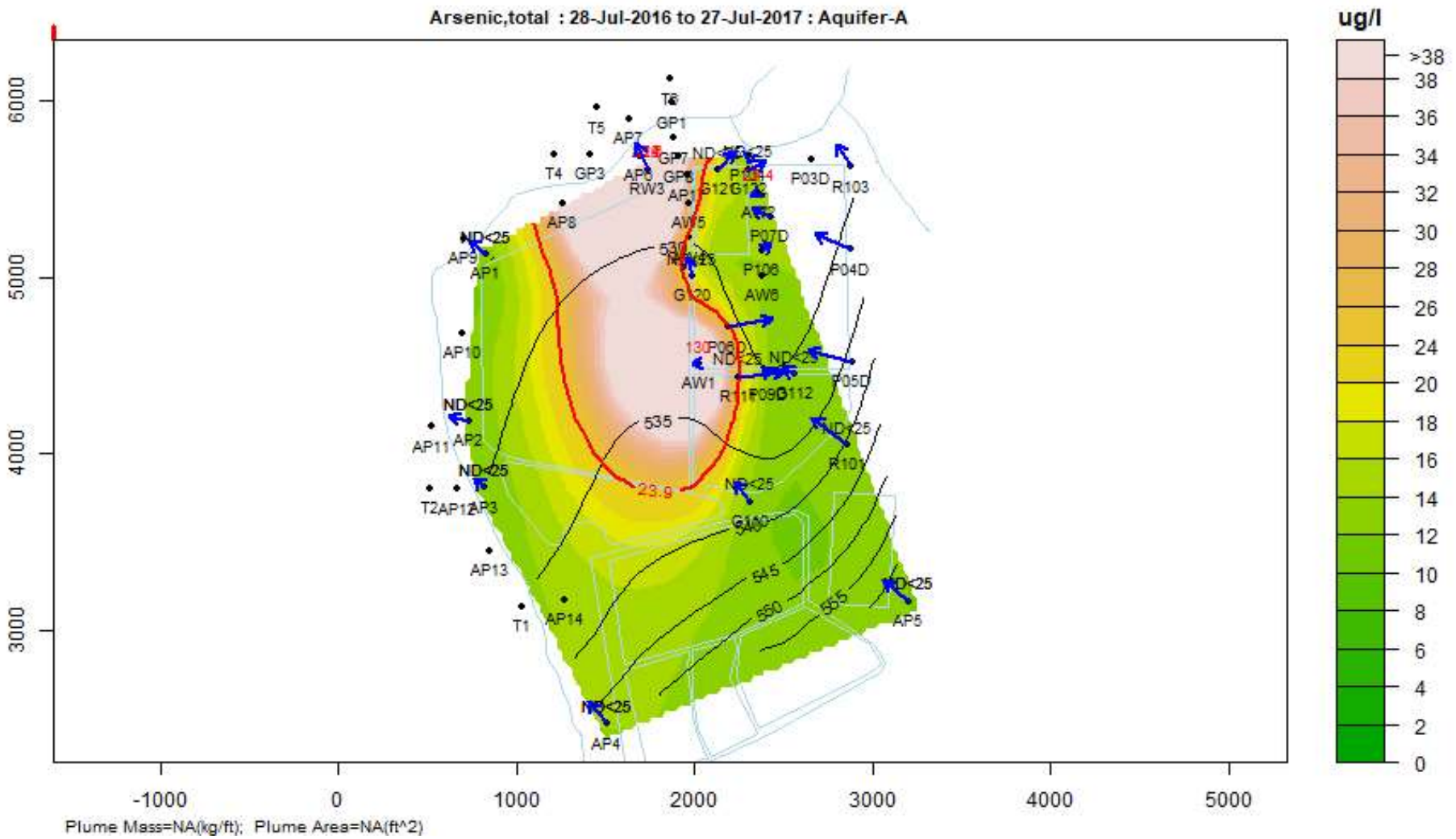
Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
R111	GW	5/8/2024	529.78	feet							
R111	GW	8/12/2024	527.71	feet							
R111	GW	11/11/2024	528.76	feet							
R111	GW	2/20/2025	528.96	feet							
R111	GW	5/21/2025	528.81	feet							
R111	GW	8/11/2025	527.87	feet							
R111	GW	11/12/2025	525.97	feet							
R111	GW	2/11/2026	527.59	feet							
R111	GW	4/22/2026	528.78	feet							
R111	GW	7/22/2026	529.92	feet							
RW3	GW	11/18/2016	527.72	feet							
RW3	GW	2/16/2017	528.22	feet							
RW3	GW	5/31/2017	531.22	feet							
RW3	GW	8/2/2017	526.12	feet							
RW3	GW	11/9/2017	527.03	feet							
RW3	GW	1/31/2018	527.18	feet							
RW3	GW	5/4/2018	529.9	feet							
RW3	GW	7/9/2018	528.84	feet							
RW3	GW	2/13/2019	532	feet							
RW3	GW	5/20/2019	531.91	feet							
RW3	GW	8/1/2019	530.32	feet							
RW3	GW	11/1/2019	540.33	feet							
RW3	GW	11/1/2019	529.92	feet							
RW3	GW	2/27/2020	532.16	feet							
RW3	GW	5/6/2020	532.65	feet							
RW3	GW	8/5/2020	528.49	feet							
RW3	GW	11/23/2020	526.82	feet							
RW3	GW	1/21/2021	528.25	feet							
RW3	GW	5/26/2021	531.51	feet							
RW3	GW	8/25/2021	529.46	feet							
RW3	GW	11/10/2021	530.82	feet							
RW3	GW	2/16/2022	529.64	feet							
RW3	GW	6/1/2022	530.3	feet							
RW3	GW	8/23/2022	529.72	feet							
RW3	GW	11/8/2022	528.71	feet							
RW3	GW	1/26/2023	530.2	feet							
RW3	GW	4/11/2023	530.76	feet							
RW3	GW	7/6/2023	528.51	feet							
RW3	GW	10/25/2023	527.71	feet							
RW3	GW	2/21/2024	530.4	feet							
RW3	GW	5/9/2024	531.63	feet							
RW3	GW	8/12/2024	528.19	feet							
RW3	GW	11/11/2024	528.05	feet							
RW3	GW	2/18/2025	529.94	feet							
RW3	GW	5/21/2025	530.23	feet							
RW3	GW	8/12/2025	528.93	feet							
RW3	GW	11/12/2025	526.02	feet							
RW3	GW	2/12/2026	526.65	feet							
RW3	GW	4/22/2026	529.52	feet							
RW3	GW	7/24/2026	529.74	feet							
T1	GW	5/9/2024	525.87	feet							
T1	GW	8/12/2024	521.15	feet							
T1	GW	11/12/2024	521.64	feet							
T1	GW	2/20/2025	521.81	feet							
T1	GW	5/22/2025	524.79	feet							
T1	GW	8/12/2025	521.02	feet							
T1	GW	11/13/2025	520.77	feet							
T1	GW	2/11/2026	520.9	feet							
T1	GW	4/21/2026	522.83	feet							
T1	GW	7/27/2026	522.2	feet							
T2	GW	5/9/2024	530.37	feet							
T2	GW	8/12/2024	523.87	feet							
T2	GW	11/13/2024	534.39	feet							
T2	GW	2/20/2025	523.97	feet							
T2	GW	5/22/2025	525.79	feet							
T2	GW	8/12/2025	523.9	feet							
T2	GW	11/13/2025	521.59	feet							
T2	GW	2/11/2026	522.31	feet							
T2	GW	4/21/2026	523.86	feet							
T2	GW	7/27/2026	524.93	feet							
T4	GW	5/14/2024	536.22	feet							
T4	GW	8/13/2024	530.28	feet							
T4	GW	11/13/2024	529.32	feet							
T4	GW	2/19/2025	530.53	feet							
T4	GW	5/27/2025	533.3	feet							
T4	GW	8/13/2025	530.69	feet							
T4	GW	11/13/2025	528.86	feet							
T4	GW	2/11/2026	528.55	feet							
T4	GW	4/21/2026	530.29	feet							
T4	GW	7/27/2026	532.19	feet							

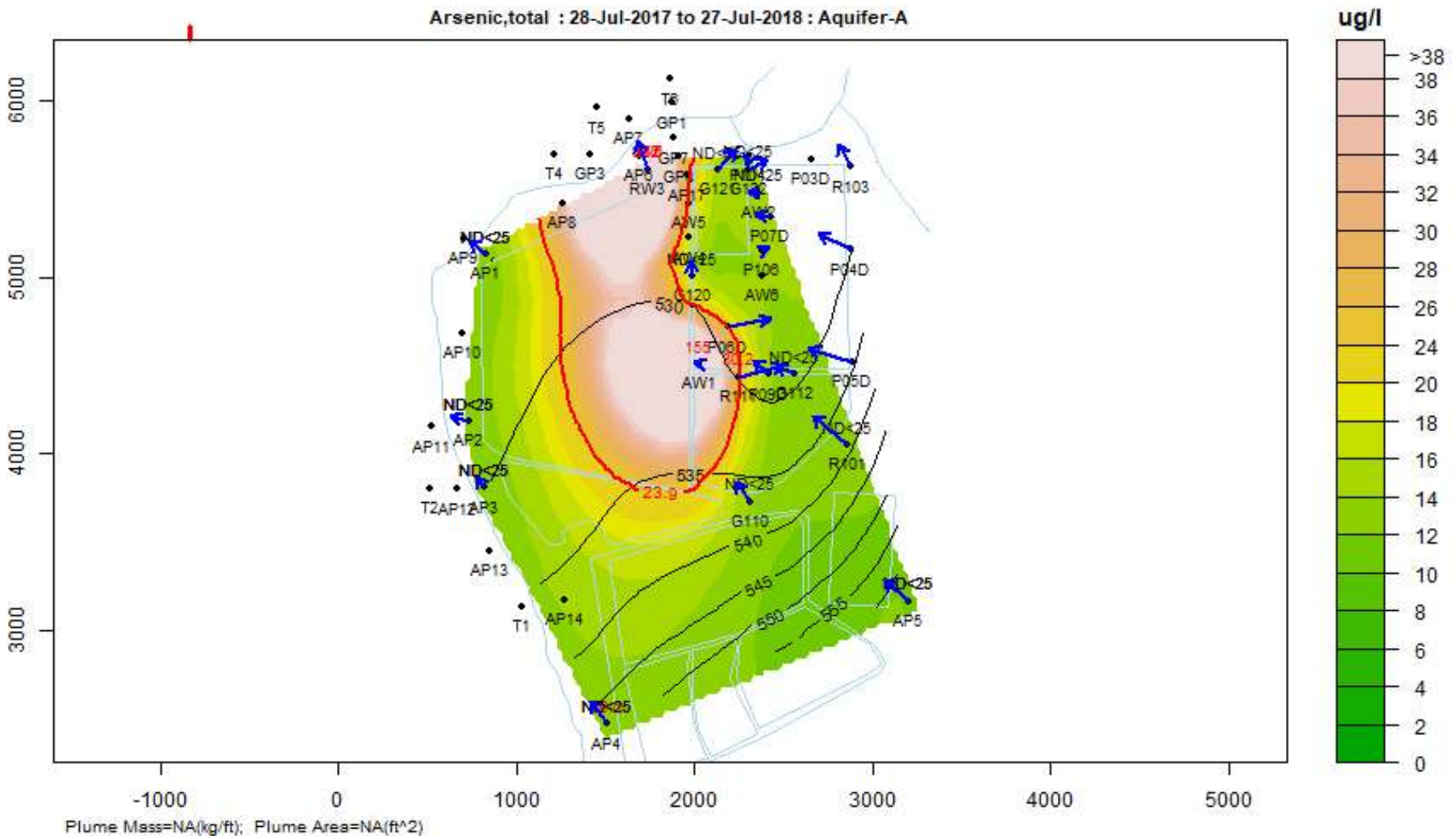
GWSDAT

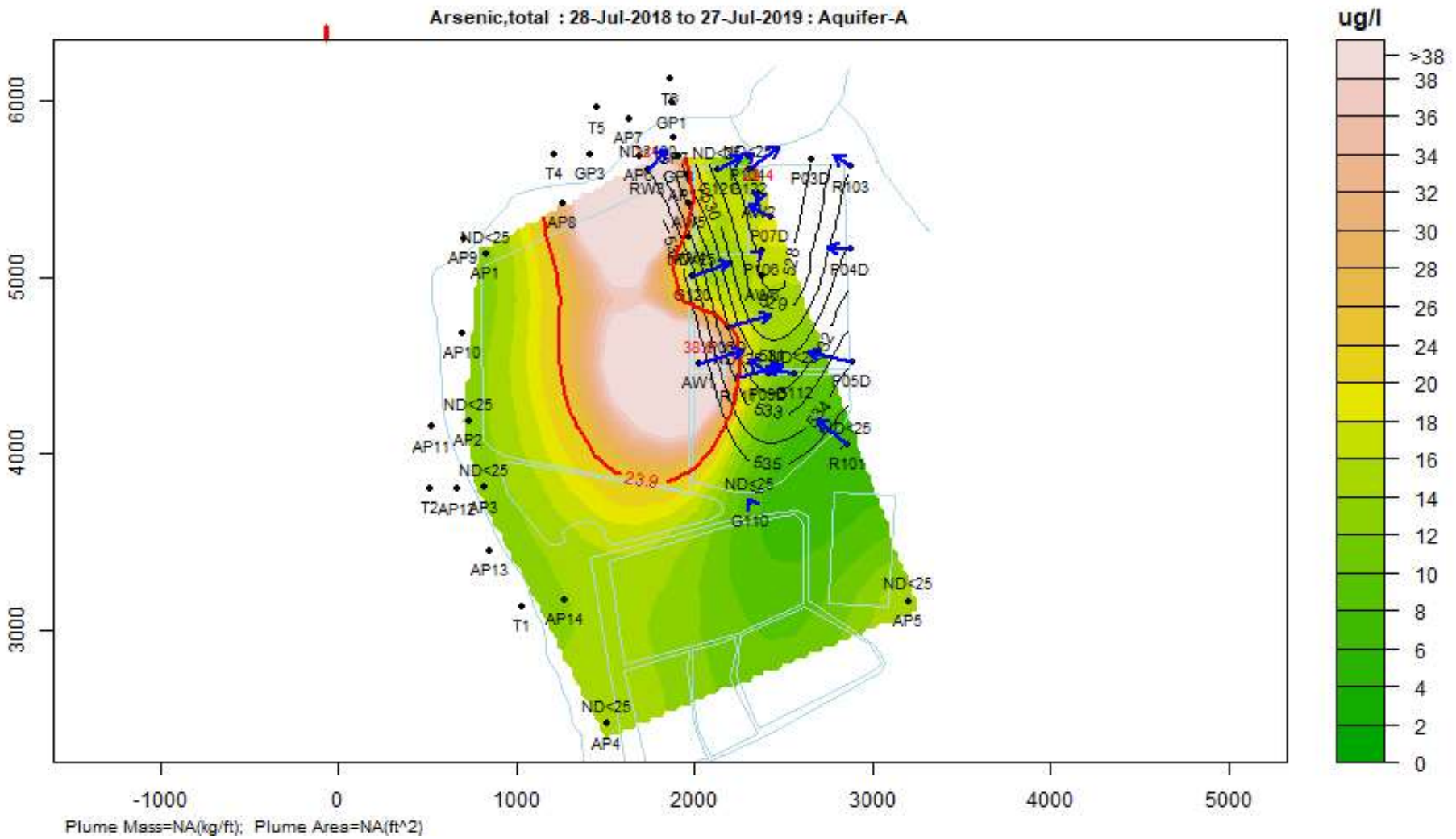
GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)

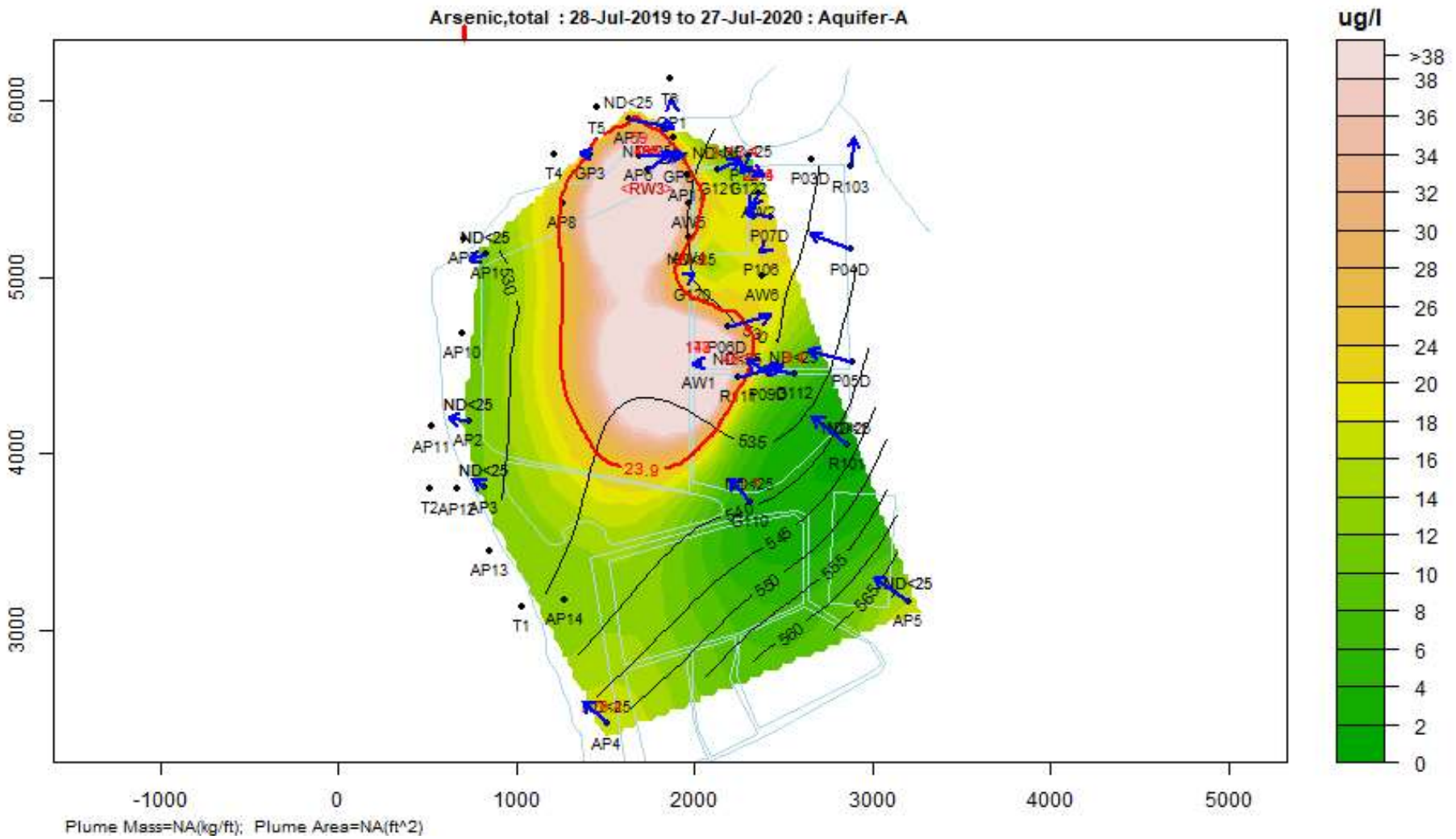
Author: Wayne.W.Jones@Shell.com Version: 3.30

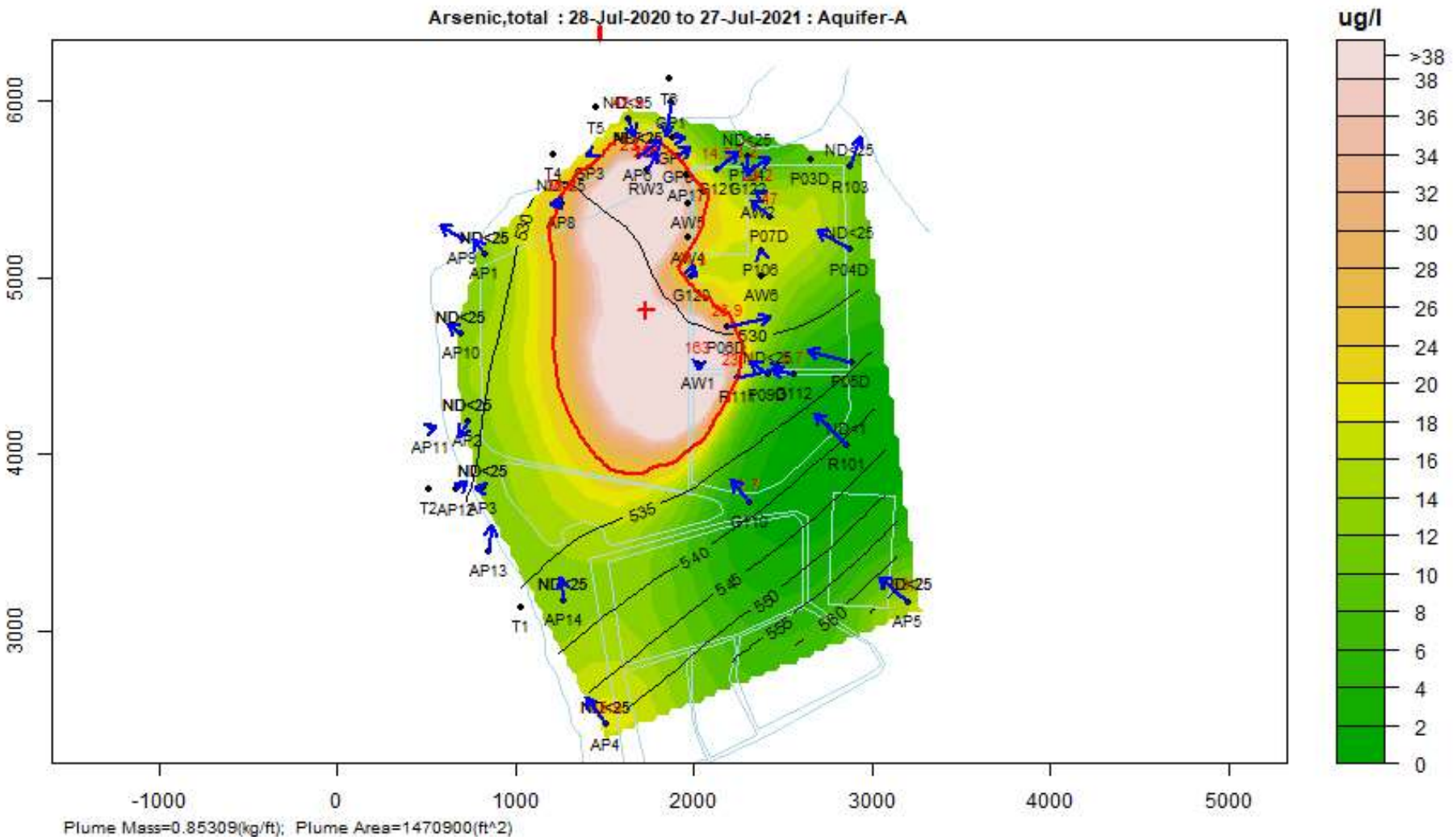
Historical Monitoring Data						Well Coordinates					GIS ShapeFiles
WellName	Constituent	SampleDate	Result	Units	Flags	WellName	XCoord	YCoord	Aquifer	CoordUnits	Filenames (*.shp)
T5	GW	5/14/2024	535.36	feet							
T5	GW	8/13/2024	529.96	feet							
T5	GW	11/13/2024	529.2	feet							
T5	GW	2/19/2025	532.67	feet							
T5	GW	5/27/2025	532.09	feet							
T5	GW	8/13/2025	530.34	feet							
T5	GW	11/13/2025	526.67	feet							
T5	GW	2/11/2026	526.15	feet							
T5	GW	4/21/2026	534.62	feet							
T5	GW	7/27/2026	532.61	feet							
T6	GW	5/14/2024	529.87	feet							
T6	GW	8/13/2024	528.44	feet							
T6	GW	11/13/2024	527.3	feet							
T6	GW	2/19/2025	528.52	feet							
T6	GW	5/27/2025	529.49	feet							
T6	GW	8/13/2025	530.17	feet							
T6	GW	11/13/2025	526.34	feet							
T6	GW	2/11/2026	525.18	feet							
T6	GW	4/21/2026	526.34	feet							
T6	GW	7/27/2026	529.61	feet							

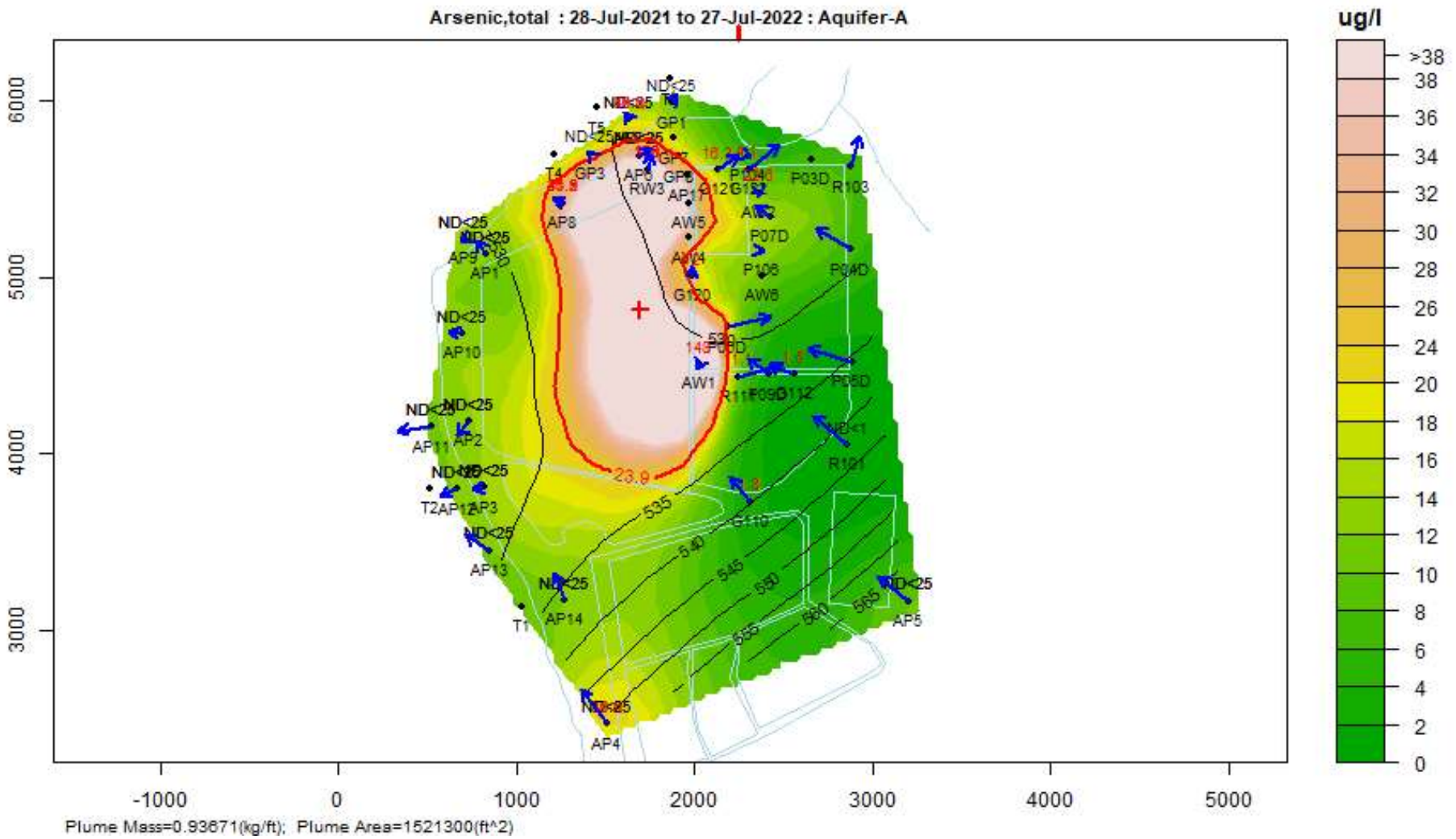

Arsenic,total : 28-Jul-2016 to 27-Jul-2017 : Aquifer-A
ug/l
>38
38
36
34
32
30
28
26
24
20
18
16
14
12
10
8
6
4
2
0
6000
5000
4000
3000
-1000
0
1000
2000
3000
4000
5000
Plume Mass=NA(kg/ft); Plume Area=NA(ft^2)
T6
T5
GP1
AP7
T4
GP3
AP6
GP7
RW3
AP8
AW5
P03D
R103
P07D
P04D
AW6
AP9
AP1
AP10
AW1
P05D
R101
AP11
AP2
T2
AP12
AP3
AP13
T1
AP14
AP5
AP4
ND<25
23.9
535
545
550
555


Arsenic,total : 28-Jul-2017 to 27-Jul-2018 : Aquifer-A
ug/l
>38
38
36
34
32
30
28
26
24
20
18
16
14
12
10
8
6
4
2
0
6000
5000
4000
3000
-1000
0
1000
2000
3000
4000
5000
T6
T5
GP1
AP7
T4
GP3
AP6
RW3
AP8
AW5
P07D
P04D
P03D
R103
AP9
AP1
G120
AW6
530
AP10
AW1
P05D
AP11
AP2
535
23.9
R101
T2
AP12
AP3
G110
540
AP13
545
550
555
T1
AP14
AP5
AP4
ND<25
155
Plume Mass=NA(kg/ft); Plume Area=NA(ft^2)

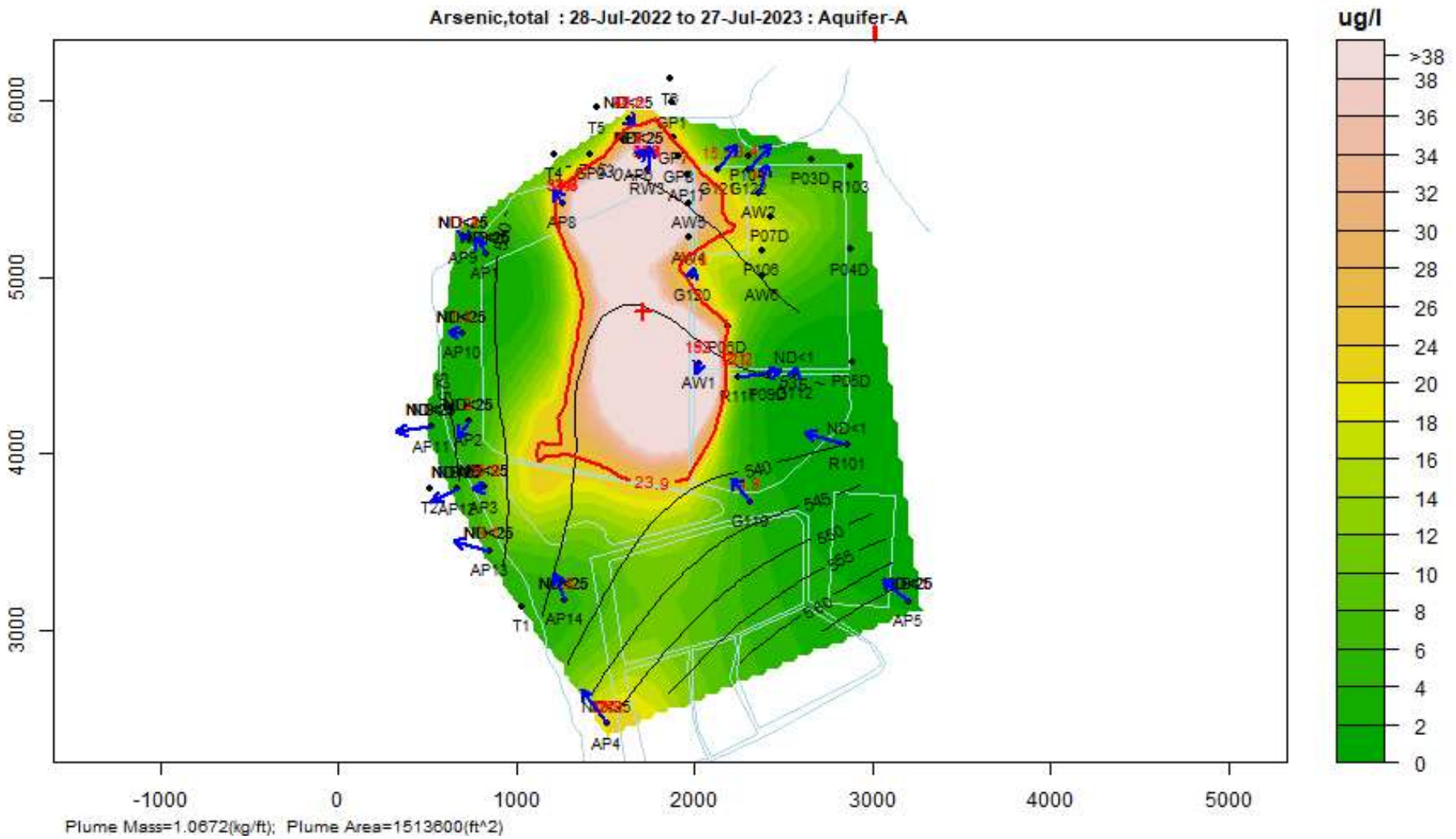

Arsenic,total : 28-Jul-2018 to 27-Jul-2019 : Aquifer-A
ug/l
>38
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
6000
5000
4000
3000
-1000
0
1000
2000
3000
4000
5000
T6
T5
GP1
AP7
T4
GP3
AP6
RW8
AP8
ND<25
AP9
AP1
AP10
ND<25
AP11
AP2
ND<25
T2
AP12
AP3
AP13
T1
AP14
ND<25
AP4
ND<25
AP5
P03D
R103
P07D
P04D
P05D
R101
G110
AW1
23.9
Plume Mass=NA(kg/ft); Plume Area=NA(ft^2)

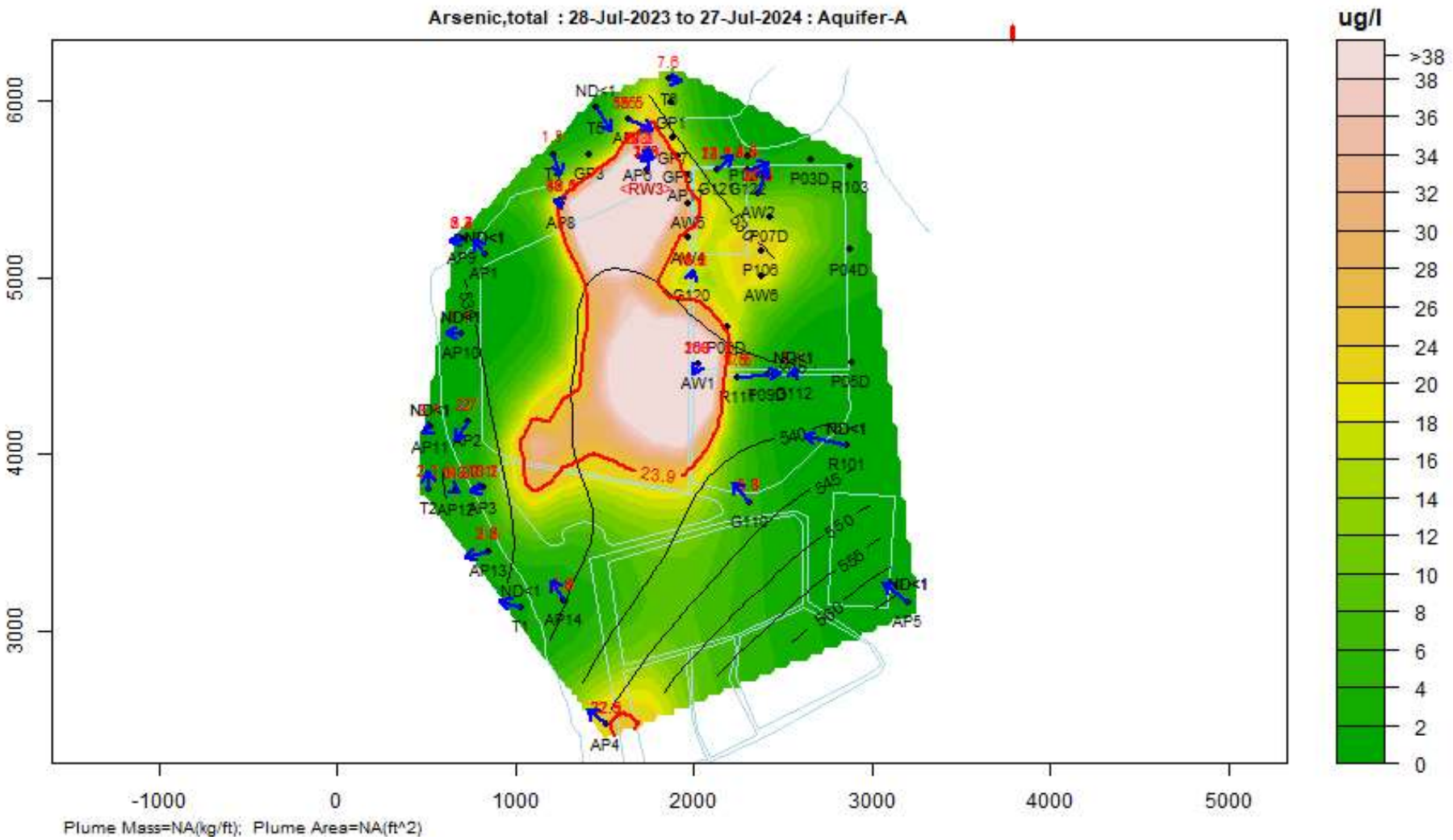

Arsenic,total : 28-Jul-2019 to 27-Jul-2020 : Aquifer-A
ug/l
>38
38
36
34
32
30
28
26
24
20
18
16
14
12
10
8
6
4
2
0
6000
5000
4000
3000
-1000
0
1000
2000
3000
4000
5000
ND<25
AP1
AP2
AP3
AP4
AP5
AP6
AP8
AP10
AP11
AP12
AP13
AP14
T1
T2
T4
T5
T6
GP1
GP3
AW1
AW5
AW6
P03D
P04D
P05D
P06D
P07D
P08
P09D
R101
R103
23.9
530
535
540
545
550
555
560
565
Plume Mass=NA(kg/ft); Plume Area=NA(ft^2)

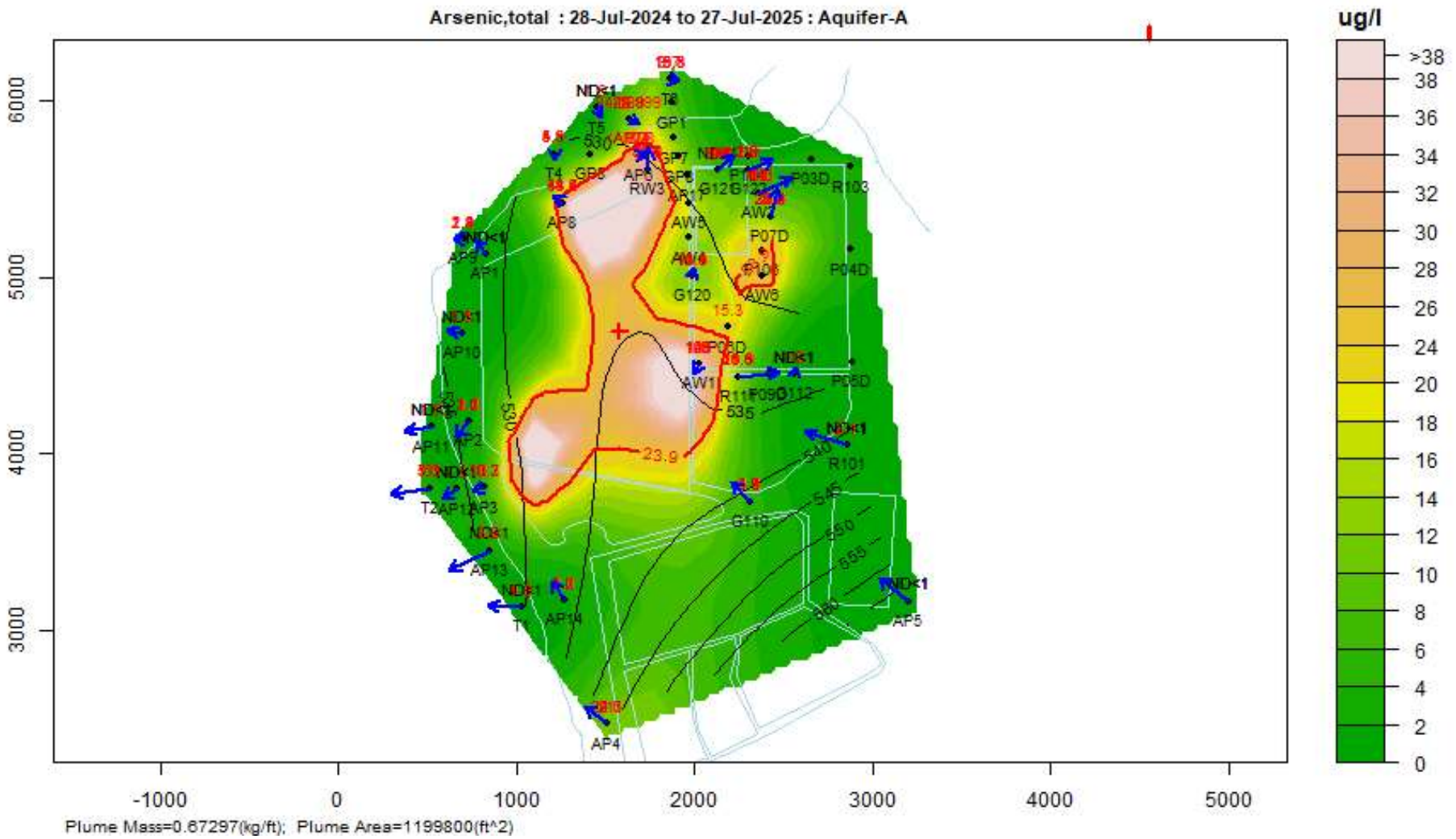

Arsenic,total : 28-Jul-2020 to 27-Jul-2021 : Aquifer-A
ug/l
>38
38
36
34
32
30
28
26
24
20
18
16
14
12
10
8
6
4
2
0
6000
5000
4000
3000
-1000
0
1000
2000
3000
4000
5000
530
535
540
545
550
555
560
ND<25
AP1
AP2
AP3
AP4
AP5
AP6
AP8
AP9
AP10
AP11
AP12
AP13
AP14
T1
T2
T4
T5
T6
RW3
AW1
AW2
AW4
AW5
AW6
P03D
P04D
P05D
P06D
P07D
P106
R101
R103
R111
R112
G120
Plume Mass=0.85309(kg/ft); Plume Area=1470900(ft^2)

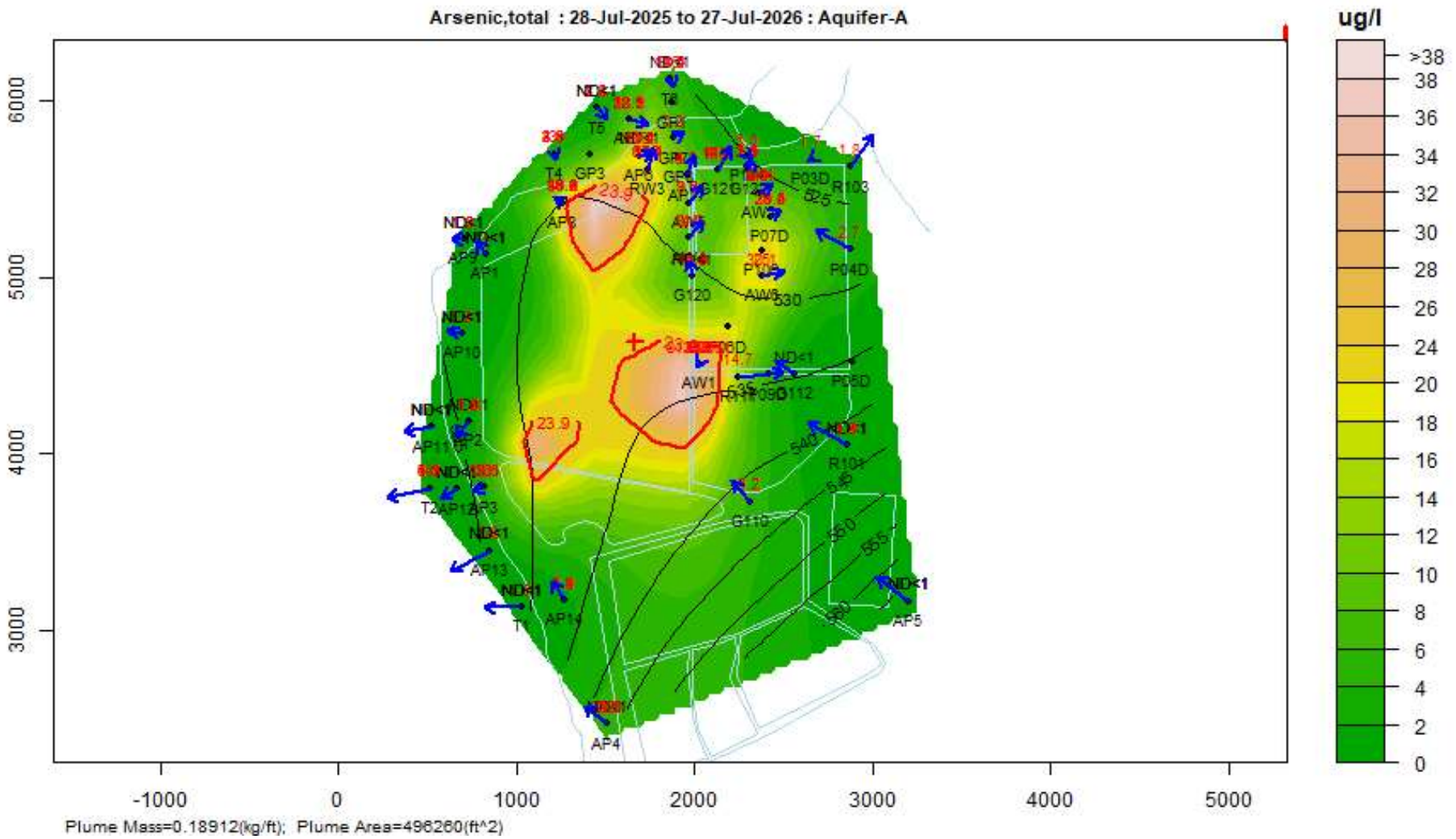


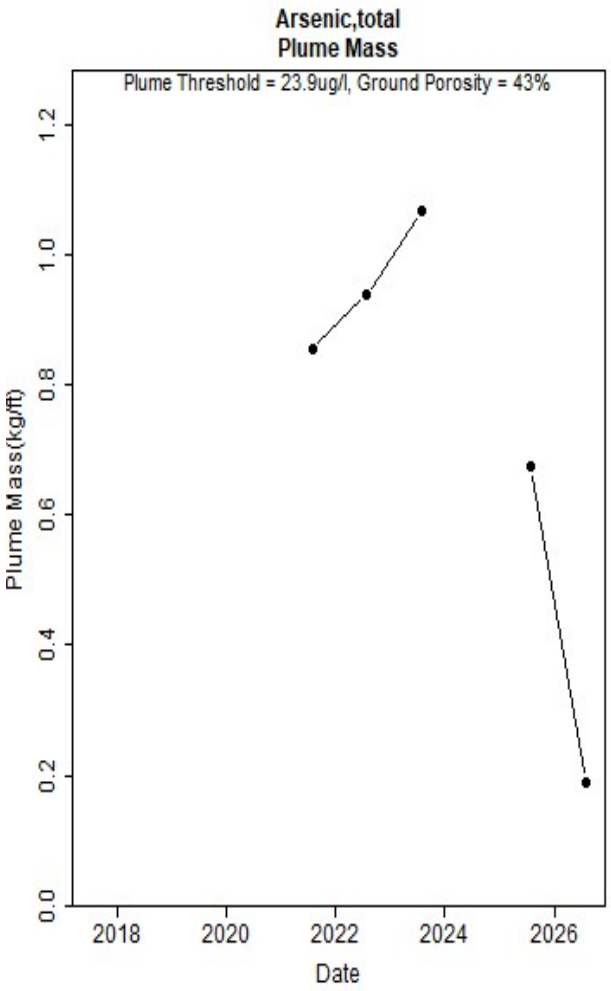
Plume Mass=0.93671(kg/ft); Plume Area=1521300(ft^2)

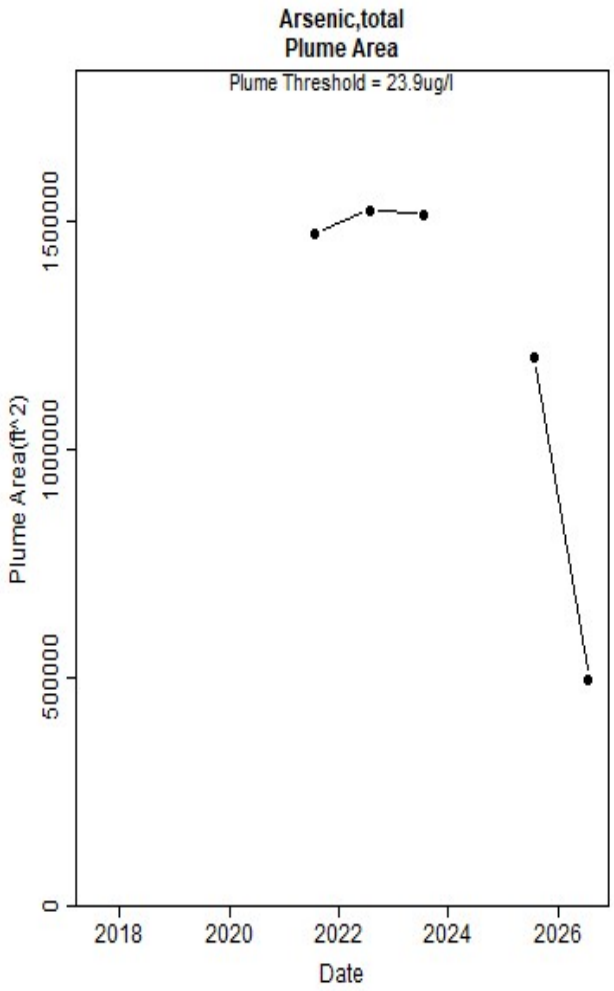

Arsenic,total : 28-Jul-2022 to 27-Jul-2023 : Aquifer-A
ug/l
>38
38
36
34
32
30
28
26
24
20
18
16
14
12
10
8
6
4
2
0
6000
5000
4000
3000
-1000
0
1000
2000
3000
4000
5000
23.9
Plume Mass=1.0672(kg/ft); Plume Area=1513600(ft^2)

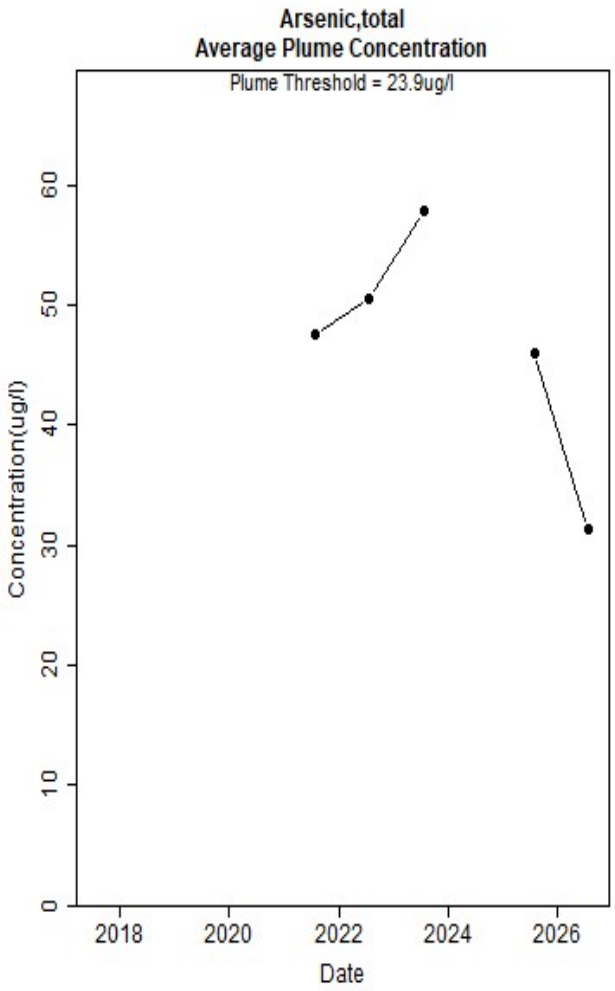

Arsenic,total : 28-Jul-2023 to 27-Jul-2024 : Aquifer-A
ug/l
>38
38
36
34
32
30
28
26
24
20
18
16
14
12
10
8
6
4
2
0
6000
5000
4000
3000
-1000
0
1000
2000
3000
4000
5000
Plume Mass=NA(kg/ft); Plume Area=NA(ft^2)
AP1
AP2
AP3
AP4
AP5
AP6
AP8
AP9
AP10
AP11
AP12
AP13
AP14
AW1
AW2
AW4
AW5
AW6
G120
G121
G122
GP1
GP3
GP7
P03D
P04D
P05D
P07D
P106
R101
R103
R111
R112
T2
T4
T5
T6
23.9
32.5
540
545
550
555
560
565
ND<1


Arsenic,total : 28-Jul-2024 to 27-Jul-2025 : Aquifer-A
ug/l
>38
38
36
34
32
30
28
26
24
20
18
16
14
12
10
8
6
4
2
0
6000
5000
4000
3000
-1000
0
1000
2000
3000
4000
5000
AP4
AP5
AP6
AP8
AP10
AP11
AP12
AP13
AP14
AW1
AW5
AW6
G120
P03D
P04D
P05D
P07D
R101
R103
RW3
T2
T4
T5
530
535
540
545
550
555
560
23.9
15.3
Plume Mass=0.67297(kg/ft); Plume Area=1199800(ft^2)


Arsenic,total : 28-Jul-2025 to 27-Jul-2026 : Aquifer-A
ug/l
>38
38
36
34
32
30
28
26
24
20
18
16
14
12
10
8
6
4
2
0
6000
5000
4000
3000
-1000
0
1000
2000
3000
4000
5000
Plume Mass=0.18912(kg/ft); Plume Area=496260(ft^2)


Arsenic,total
Plume Mass
Plume Threshold = 23.9ug/l, Ground Porosity = 43%
Plume Mass(kg/ft)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
2018
2020
2022
2024
2026
Date


Arsenic,total
Plume Area
Plume Threshold = 23.9ug/l
Plume Area(ft^2)
0
500000
1000000
1500000
2018
2020
2022
2024
2026
Date


Arsenic,total
Average Plume Concentration
Plume Threshold = 23.9ug/l
Concentration(ug/l)
0
10
20
30
40
50
60
2018
2020
2022
2024
2026
Date

APPENDIX G:
GWSDAT DOCUMENTS

Appendix G-1: Supporting GWSDAT Methodology Reference
Statistical Basis of the GWSDAT Modeling Framework

Document Title
A Software Tool for the Spatiotemporal Analysis and Reporting of Groundwater Monitoring Data

Citation
Jones, W.R., Spence, M.J., Bowman, A.W., Evers, L., and Molinari, D.A. (2014). *A Software Tool for the Spatiotemporal Analysis and Reporting of Groundwater Monitoring Data*. *Environmental Modelling & Software*, 55, 242-249.

Purpose of Inclusion
This document is provided as supporting technical literature describing the statistical framework implemented within GWSDAT.

The publication discusses:

- Spatiotemporal groundwater data analysis;
- Groundwater concentration surface generation;
- Trend analysis;
- Spatial and temporal smoothing;
- Groundwater plume visualization;
- Data treatment methods used in groundwater monitoring evaluations.

The methodology described in this publication provides the technical basis for generation of concentration surfaces and plume interpretations used in this Addendum.



Jones, W. R., Spence, M. J., Bowman, A. W., Evers, L., and Molinari, D. A. (2014) A software tool for the spatiotemporal analysis and reporting of groundwater monitoring data. Environmental Modelling and Software, 55, pp. 242-249.

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Version: Published

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Deposited on: 16 April 2015

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Environmental Modelling & Software 55 (2014) 242–249

Contents lists available at ScienceDirect

Environmental Modelling & Software

journal homepage: www.elsevier.com/locate/envsoft

A software tool for the spatiotemporal analysis and reporting of groundwater monitoring data

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ARTICLE INFO

Article history:
Received 22 May 2013
Received in revised form
15 January 2014
Accepted 16 January 2014
Available online 25 February 2014

Keywords:
Environmental monitoring
Groundwater
Open source software
R
Spatiotemporal
Geostatistics
Spatial modelling
GWSDAT

ABSTRACT

The GroundWater Spatiotemporal Data Analysis Tool (GWSDAT) is a user friendly, open source, decision support tool for the analysis and reporting of groundwater monitoring data. Uniquely, GWSDAT applies a spatiotemporal model smoother for a more coherent and smooth interpretation of the interaction in spatial and time-series components of groundwater solute concentrations. Data entry is via a standardised Microsoft Excel input template whilst the underlying statistical modelling and graphical output are generated using the open source statistical program R. This paper describes in detail the various plotting options available and how the graphical user interface can be used for rapid, rigorous and interactive trend analysis with facilitated report generation. GWSDAT has been used extensively in the assessment of soil and groundwater conditions at Shell's downstream assets and the discussion section describes the benefits of its applied use. Finally, some consideration is given to possible future developments.

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Software availability

Software name: GWSDAT (GroundWater Spatiotemporal Data Analysis Tool)
Developer: Wayne R. Jones
Contact address: Shell Global Solutions (UK) (wayne.w.jones@shell.com)
Year first official release: 2013
Hardware requirements: Standard PC
System requirements: Microsoft Windows (XP or later)
Software requirements: Microsoft Office (Excel, Word and PowerPoint) and R (www.r-project.org)
Program Size: 13 MB
Availability: www.claire.co.uk/GWSDAT
License: Free under a GNU General Public License (www.gnu.org) agreement.
Documentation and support for users: User manual, example data sets, FAQ document, presentations and posters.

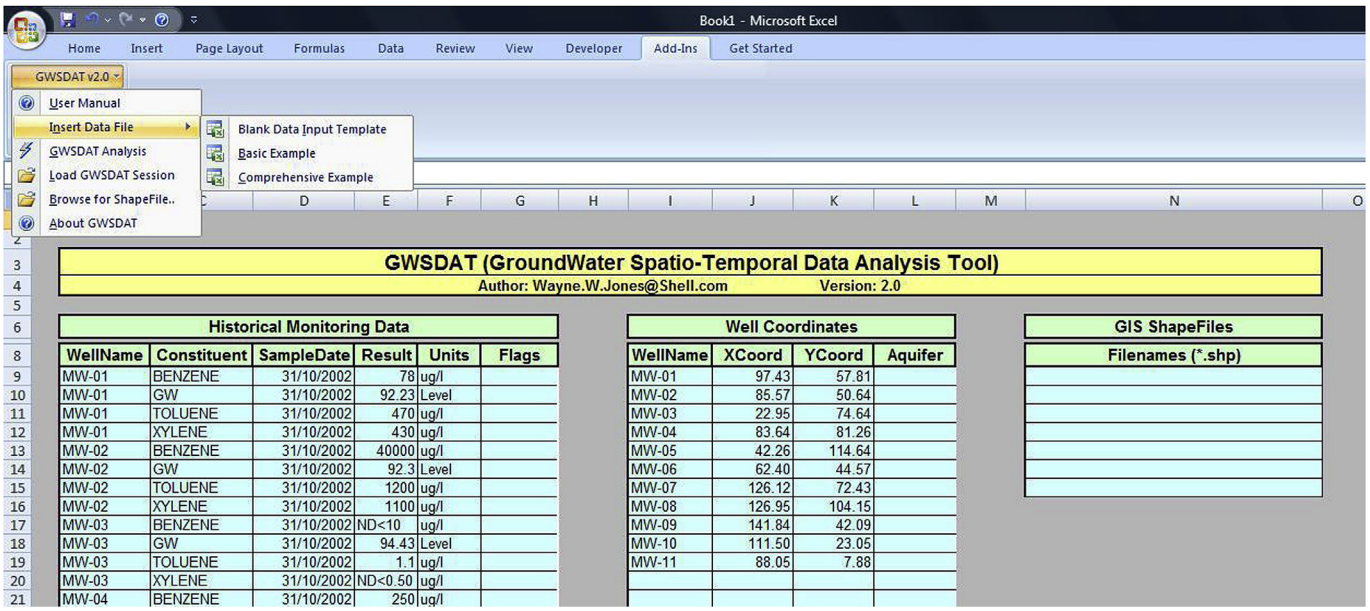
1. Introduction

1.1. Background

Groundwater is water located beneath the Earth's surface in soil pore spaces and in the fractures of rock formations. Environmental monitoring of groundwater is routinely conducted in areas where the risk of contamination is high and for protecting human health and the environment following an accidental release of hazardous constituents. Groundwater monitoring strategies are designed to establish the current status and assess trends in environmental parameters, and to enable an estimate of the risks to human health and the environment. It involves installing a network of monitoring wells to enable access to the water table across the site (Barcelona et al., 1985). Samples of groundwater are periodically collected from these wells and sent to an accredited laboratory for chemical analysis. The resulting spatiotemporal data set has to be reviewed,

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http://dx.doi.org/10.1016/j.envsoft.2014.01.020



WellName	Constituent	SampleDate	Result	Units	Flags
MW-01	BENZENE	31/10/2002	78	ug/l	
MW-01	GW	31/10/2002	92.23	Level	
MW-01	TOLUENE	31/10/2002	470	ug/l	
MW-01	XYLENE	31/10/2002	430	ug/l	
MW-02	BENZENE	31/10/2002	40000	ug/l	
MW-02	GW	31/10/2002	92.3	Level	
MW-02	TOLUENE	31/10/2002	1200	ug/l	
MW-02	XYLENE	31/10/2002	1100	ug/l	
MW-03	BENZENE	31/10/2002	ND<10	ug/l	
MW-03	GW	31/10/2002	94.43	Level	
MW-03	TOLUENE	31/10/2002	1.1	ug/l	
MW-03	XYLENE	31/10/2002	ND<0.50	ug/l	
MW-04	BENZENE	31/10/2002	250	ug/l	

WellName	XCoord	YCoord	Aquifer
MW-01	97.43	57.81	
MW-02	85.57	50.64	
MW-03	22.95	74.64	
MW-04	83.64	81.26	
MW-05	42.26	114.64	
MW-06	62.40	44.57	
MW-07	126.12	72.43	
MW-08	126.95	104.15	
MW-09	141.84	42.09	
MW-10	111.50	23.05	
MW-11	88.05	7.88	

Fig. 1. GWSDAT example data input template. The *Historical Monitoring Data* table captures the concentration data, groundwater levels and, if present, NAPL thickness. The *Well Coordinates Table* stores the location of the monitoring well. The GWSDAT add-in menu is displayed at the top left.

analysed statistically, interpreted, and the results presented to environmental regulators in a clear and understandable manner.

The most basic method of level and trend evaluation involves investigating the time-series of groundwater constituent concentrations independently on a well by well basis. The more sophisticated spatial methods, typically, involve fitting a concentration trend surface (i.e. Kriging) to evaluate spatial pattern and trend (Cameron and Hunter, 2002; Gaus et al., 2003). However, although spatiotemporal data lies at the heart of current research in statistical methods (see Cressie and Wikle (2011)), the most common practice is to independently apply spatial modelling techniques to separate monitoring events (e.g. Ricker (2008)) or apply a single spatial model to a data set which has been consolidated over a time period (e.g. Aziz et al. (2003)). The joint modelling of both spatial and time elements in a single spatiotemporal modelling framework leads to a more coherent interpretation of site groundwater characteristics (Evers et al., in press).

Whilst there is a range of freely available groundwater data analysis applications, the most sophisticated tend to be designed for large scale long term groundwater monitoring networks (Aziz et al., 2003; Cameron, 2004). These have a relatively large initial data warehousing setup burden, which may be viewed as a barrier to the more widespread use of advanced groundwater monitoring techniques to smaller more short term monitoring programmes. Similarly, whilst GIS applications (e.g. ArcGIS) have excellent visualisation tools for geographical interpretation they also have a high initial data setup cost, operator competence requirements, and perhaps surprisingly, only a limited number of geostatistical modelling techniques available.

2. Software design and aims

2.1. Development aims

To a large extent, GWSDAT has been developed to address the barriers discussed in Section 1.1. However, its most important aim is to provide a simple to use, but statistically powerful decision support tool to environmental engineers and practitioners who routinely report on the status of numerous groundwater monitoring sites. Such an application needs to be easy to setup yet powerful in its ability to objectively analyse and rapidly report on a groundwater monitoring site's characteristics.

In common with many other environmental applications, it was recognised that there would be a benefit in providing the software in an open and transparent manner because policy makers and environmental regulators generally prefer code and techniques which are fully transparent and supported by sound science (Carslaw and Ropkins, 2012).

2.2. Software architecture

GWSDAT has been designed to integrate with Microsoft Excel, a software routinely used by environmental engineers for storing and analysing environmental (e.g. soil and groundwater) data. The user entry point to GWSDAT is a custom built Excel Add-in menu (see top left of Fig. 1).

The statistical engine used to perform geostatistical modelling and display graphical output is the open source statistical programming language R (R Development Core Team, 2012). The R project is used across a wide range of disciplines and has been adopted with eagerness by the environmental sciences community (Carslaw and Ropkins, 2012). Members of the R community contribute statistical routines and functionality to this collaborative project by means of an open standardised package structure, which can be downloaded and installed from http://cran.r-project.org/web/packages/. GWSDAT makes use of several of these packages, which are all individually referenced in this article. A Graphical User Interface (GUI) is provided via the R packages *rpanel* (Bowman et al., 2007) and *tkrplot* (Tierney, 2011) which obviates the need for training GWSDAT users in the R programming language.

3. Data input

3.1. Background

Before describing the application of GWSDAT in more detail it is necessary to give a brief explanation of the nature of groundwater monitoring data. In general, routine sampling of a monitoring well involves measuring the groundwater elevation and taking a sample of the groundwater which is subsequently sent for laboratory

analysis to ascertain the dissolved concentration of a prescribed set of solutes (e.g. Toluene, Benzene). If the concentration is deemed lower than that which could be detected using the method employed by the laboratory then it is classified as a 'non-detect'. In such circumstances, the laboratory quotes the detection threshold concentration value below which the solute could not be detected.

An additional important consideration for petroleum hydrocarbon applications is the presence of a layer of Non-Aqueous Phase Liquid (NAPL), such as gasoline or diesel, on the surface of the water table. This circumstance often arises when the amount of contamination is sufficient to exceed the natural solute level of groundwater. Samples containing NAPL are not often sent for a full chemical analysis (unless performing NAPL forensics) because the levels of solute concentrations are too high for the traditional laboratory methods, which are geared towards lower concentrations. Hence, NAPL data poses the challenge of how to handle unspecified high solute concentration values and identify trends in NAPL layer thickness.

3.2. Input data format

Groundwater monitoring data is entered into GWSDAT by means of a simple standardised Microsoft Excel input sheet (Fig. 1). There is no requirement to gather any data that would not have already been recorded in a standard groundwater monitoring data set. The following summarises the GWSDAT data input format but the reader is referred to the user manual for a full and detailed explanation of GWSDAT data input specification.

Each row of the *Historical Monitoring Data* table (left hand table in Fig. 1) corresponds to a unique combination of well id, sampling date, aquifer zone, solute name and concentration. Non-detect solute data is entered using the notation 'ND < X', where X represents the laboratory reported detection threshold concentration. If present, NAPL thickness data is also entered in this table using the constituent name 'NAPL' with an appropriate unit, e.g. metres, mm. Optionally, groundwater level data is entered here (using the constituent name 'GW') as an elevation above a common datum, e.g. metres or feet above sea level or some other common reference height.

The *Well Coordinates* table (middle table in Fig. 1) stores the coordinates of the groundwater monitoring wells. Any arbitrary coordinate system with an aspect ratio of 1 can be used, i.e. a unit in the x-coordinate is the same distance as a unit in the y-coordinate.

The third optional *GIS Shapefiles* table can be populated with file locations of GIS shapefiles (Esri, 1998) for use as basemaps or site plans. Two GWSDAT input data sets of varying complexity (basic and comprehensive) are included with the software to serve as both an example of the GWSDAT data input format and provide a quick way of getting started.

3.3. Data processing

On initiation of a GWSDAT analysis, the user is asked to select from a variety of data processing options including the handling of non-detects and, if present, NAPL. In accordance with the common convention, the default option is to substitute the non-detect solute concentration data with half its detection limit. Note, however, that this can mask trends in the data and lead to erroneous estimates of summary statistics in cases with a high proportion of non-detect results (Helsel, 2004). This issue is discussed in more detail in Section 6. If NAPL is present the user is prompted to substitute NAPL data points with site data set maximum observed solute concentrations. This option is to provide a more realistic picture of the area of impacted groundwater (high concentrations) in the event that NAPL in wells prevents direct measurement of solute concentrations as discussed in Section 3.1. The data processing step is concluded with a series of data validation procedures to check for common data input errors.

4. Graphical user interface

4.1. Introduction

In the interests of user-friendliness and productivity the results of a GWSDAT analysis are interrogated and interpreted through the GWSDAT user interface (see Fig. 2). It includes a wide range of different plots for the visual inspection of groundwater monitoring data. The objective assessment of trend is achieved by the application of statistical smoothing models described in Appendix A. The following sections describe the individual components of the GWSDAT user interface in more detail.

4.2. Well trend plot

The well trend plot (see Fig. 3) enables the user to investigate time series trends of solute concentrations and groundwater level in individual wells. Sampled concentration values are displayed using orange circles for non-detect data and black solid circles for detectable data. The user can choose to overlay a linear (or log-linear) regression model fit and use the non-parametric Mann–Kendall approach to trend detection via the R package *Kendall* (McLeod, 2011). Although this approach is widely used in environmental sciences (e.g. Hirsch et al. (1982); Helsel and Hirsch (2002)) its major weakness is that it can only detect monotonic trend and in response GWSDAT adopts an additional methodology. The solid blue line in Fig. 3 displays the estimate (together with a 95% confidence interval) of the mean trend level according to a local linear regression model fit described in Appendix A.1. This non-parametric model smoothing technique is not constrained to be monotonic and can change direction as is clearly illustrated in the figure. The trend between two points in time is, informally speaking, deemed statistically significant if the associated confidence intervals do not overlap (Fig. 4).

For evaluating the impact of changing (perhaps seasonal) water table conditions groundwater elevation data can, optionally, be overlaid in this plot. The time series of observed groundwater level is represented by open circles joined by a black solid line see and the values read off from the right hand axis (see Fig. 3). If present, NAPL thickness data can also be displayed in a similar manner.

4.3. Trend and threshold indicator matrix

The trend and threshold indicator matrix is a summary of the level and time-series trend in solute concentrations at a particular time-slice of the monitoring period. The rows correspond to each monitoring well and the columns correspond to the different solutes. The date of the time-slice is displayed at the top of the plot and also indicated by a vertical grey line in the well trend plot (see Fig. 3). The user can select between the options of displaying 'Trend', 'Threshold – Absolute' or 'Threshold Statistical'.

When 'Trend' is selected the cells are coloured to indicate the strength and direction of the current trend as assessed by the instantaneous gradient of the well trend smoother (see Section 4.2) at the current time-slice. White cells indicate a generally flat trend whilst reds and greens indicate strong upward and downward trends, respectively. In the event that the trend cannot be calculated (e.g. no data) then the corresponding cell is coloured grey. Blue cells represent non-detect data.

When 'Threshold Absolute' is selected the cells are coloured according to whether the observed current solute concentrations

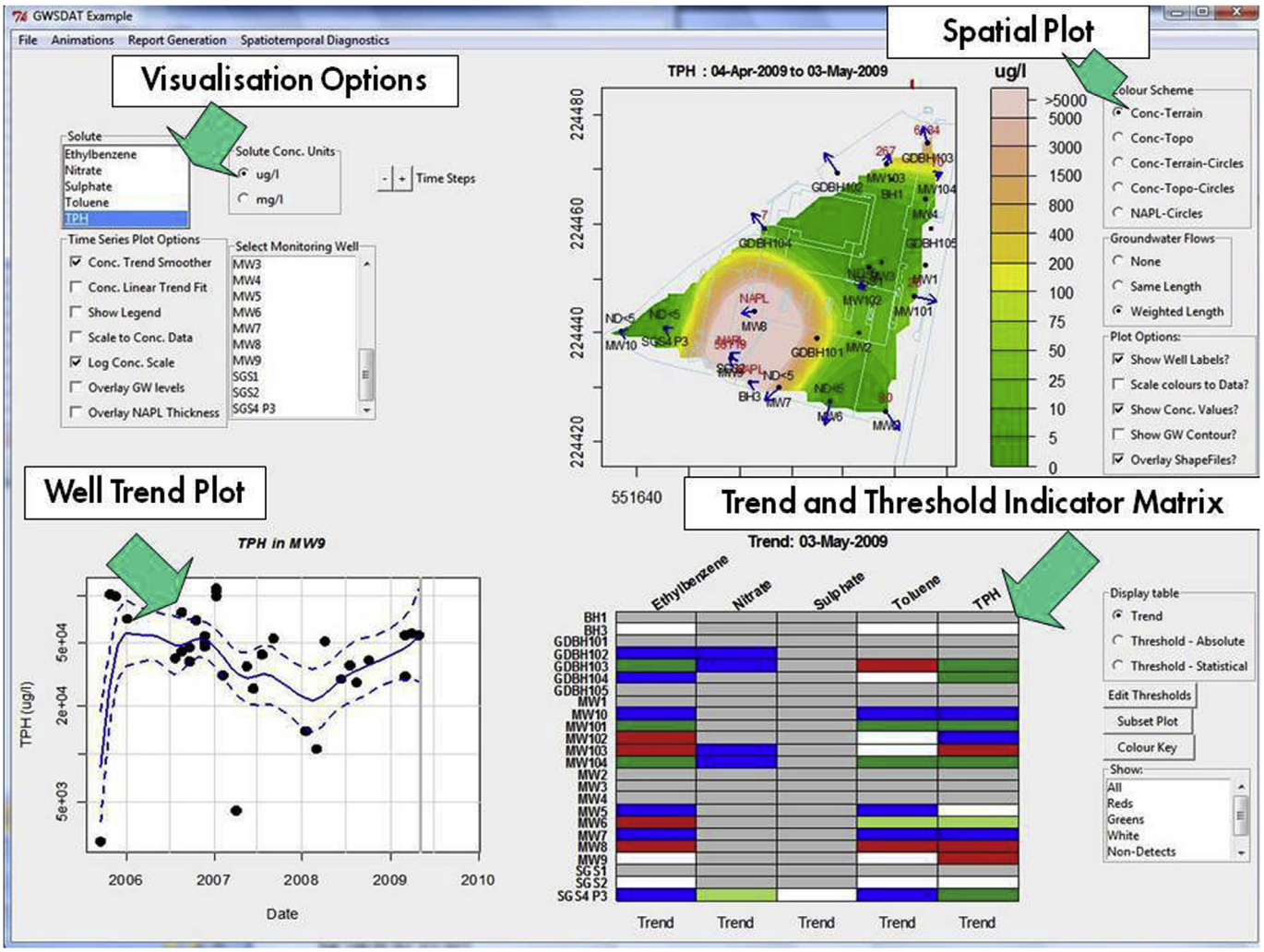


Fig. 2. The GWSDAT graphical user interface is a stand-alone, point and click, Graphical User Interface (GUI) which enables the user to perform a rapid, rigorous and interactive analysis of trends in the time-series, spatial and spatiotemporal components of the data.

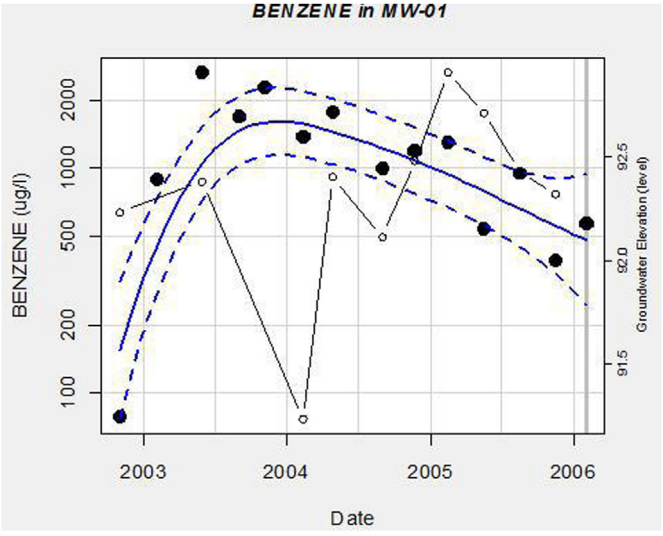


Fig. 3. Example of the GWSDAT well trend plot. The black solid circles represent observed concentration values. Overlaid in the solid blue line is a local linear regression model fit with 95% confidence interval, shown as dashed blue lines. The open circles joined by solid line represent groundwater elevation measurements which are read off from the right hand axis.

are below a user specified threshold value, such as a risk-based remedial objective. The cells are coloured red if the current solute concentration is above the threshold value and green otherwise. 'Threshold Statistical' is similar but only colours the cell green if the upper 95% confidence interval of the well trend smoother (see Section 4.2) is below the threshold value.

4.4. Spatial plot

The GWSDAT spatial plot (see Fig. 5) is for the analysis of spatial trends in solute concentrations, groundwater flow and, if present, NAPL thickness. It displays the locations of the named monitoring wells together with sample solute concentration values collected within the date interval displayed at the top of the graphic. If desired, the major site features (e.g. roads, fuel tanks), supplied in a GIS shapefile format, can be overlaid on the spatial plot as light blue lines. As the user increments forwards and backwards through the monitoring history, using the '+' and '−' *Time Steps* buttons, the spatial plot is updated.

The estimated groundwater flow direction and magnitude is depicted with blue arrows calculated using the method described in Appendix A.2. Additionally, it is possible to overlay a contour plot of groundwater elevation. This is achieved by drawing isopleths through a fitted local polynomial regression model fit implemented

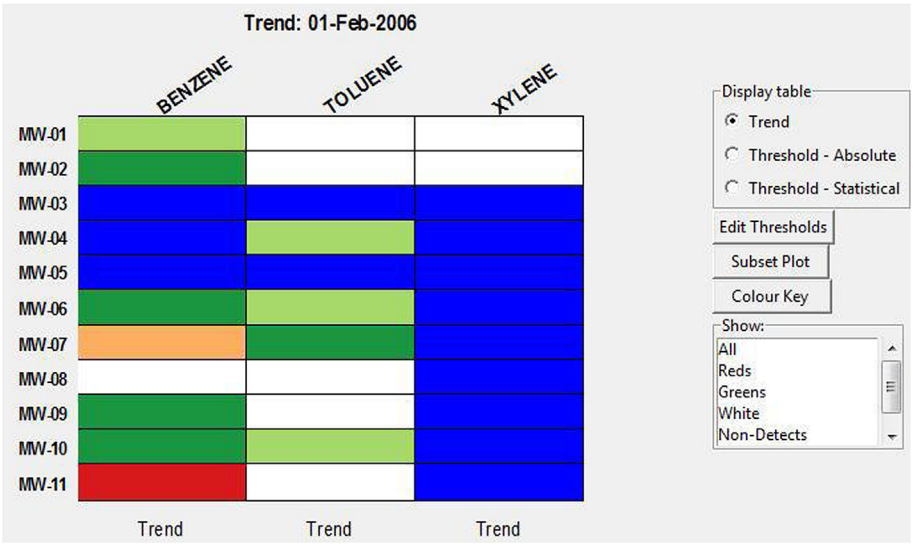


Fig. 4. Example of the GWSDAT trend and threshold indicator matrix. The rows represent monitoring wells, and columns represent the different solutes. Each cell is colour coded to represent increasing (reds), stable (white) or decreasing (greens) trends in solute concentrations. Blue cells represent non-detect data and if there is insufficient data the cell is coloured grey.

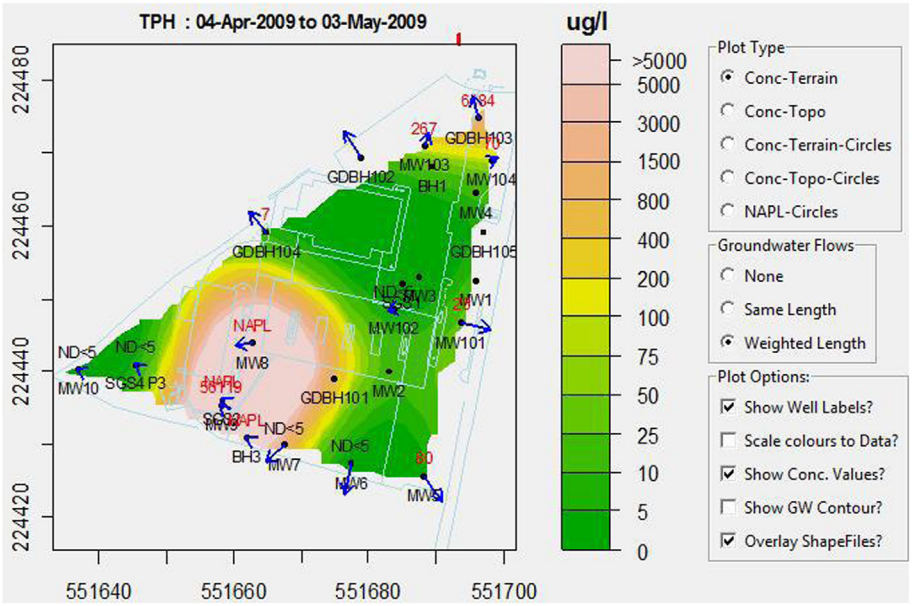


Fig. 5. Example of the GWSDAT spatial plot. The location of the named monitoring wells is depicted with black solid circles. Detect data or NAPL is displayed in a red font and non-detect in a black font above the wells. Blue arrows indicate vectors of estimated groundwater flow velocity. Spatiotemporal solute concentration smoother predictions are superposed using the colour key on the right. GIS shapefile data is overlaid using light blue lines.

using the R function *loess* – a 2D variant of the local linear regression method explained in Appendix A.1.

The spatial distribution of solute concentration is estimated by taking a time-slice through the spatiotemporal concentration smoother (discussed further in Section 4.5). The model predictions are superposed on the spatial plot with a user-specified colour key located to the right of the plot. Alternatively, if no model based predictions are required, the concentration smoother can be replaced by size scaled colour coded circles representing the magnitude of sampled solute concentration values. If NAPL is present, the additional 'NAPL-Circles' option is available which displays NAPL thickness measurements at the monitoring well locations using a similar circle based representation, i.e. a bubble-plot.

The spatial plot uses the R packages, *sp* (Pebesma and Bivand, 2005), *splancs* (Rowlingson et al., 2012) and *maptools* (Lewin-Koh et al., 2012).

4.5. Spatiotemporal trend analysis

One of GWSDAT's unique features is that the spatial and temporal components of the solute concentration data are modelled jointly in a single modelling framework described in Appendix A.3. The simultaneous statistical smoothing of both spatial and temporal components provides a clearer and more insightful interpretation of the groundwater monitoring site solute characteristics than would otherwise be gleaned from analysing these two components

separately. However, it is not an inconsiderable challenge to effectively communicate the 3-dimensional nature of spatiotemporal trend through a 2-dimensional medium of a computer monitor. Furthermore, there is an additional constraint that the output from a GWSDAT analysis is commonly used in paper-based non-interactive reports submitted to environmental regulators. For this reason, GWSDAT communicates spatiotemporal trend through automatic plotting of the full temporal sequence of spatial plots (see Section 4.4). This animation based approach provides a 'movie' clearly illustrating how both the spatial and temporal distribution of historical groundwater solute concentrations have changed over the monitoring period.

The 'animations' menu located at the top-left of the GWSDAT user interface (Fig. 2) provides three different methods for generating animations. The first method plots and records the full sequence of spatial plots in an R graphics window. The user can toggle forwards and backwards through the sequence of spatial plots using the 'Page Up' and 'Page Down' keyboard buttons. The second method is identical but additionally generates a Microsoft PowerPoint slidepack of the full sequence of spatial plots. The third method uses the R package *animation* (Xie, 2012), to generate a html animation page (with controls) of spatial plots in the user's internet browser. The html animation can be viewed independently of GWSDAT, and hence provides an excellent dynamic media for communicating results to individuals who do not have direct access to GWSDAT.

4.6. Report generation

By left-clicking on any of the GWSDAT user interface plots, an identical but expanded plot is generated in a separate R graphics window. Plots can be saved to a variety of different formats including 'jpeg', 'postscript', 'pdf', 'metafile'. Alternatively, with a single click of a mouse, plots and sequences of plots (e.g. spatiotemporal animation described in Section 4.5) can be diverted directly in to Microsoft Word or PowerPoint. This functionality, implemented using the R package *RDCOMClient* (Lang, 2012), enables the user to interactively compile a site groundwater monitoring report in an expeditious manner.

Additional report generation functionality include the 'Well Reporting' procedure, implemented using the R package *lattice* (Sarkar, 2008), which generates a matrix of graphs displaying time series solute concentration values on a well by well basis (see Fig. 6). This plot can be used to very concisely summarise the time series trends in the complete set of solutes and monitoring wells. A similar report procedure 'GW Well Reporting' also allows for the overlay of the time series in groundwater elevation at each well. Finally, the 'Latest Snapshot' procedure generates a sequence of plots (to PowerPoint if required) which reports on the most recent trends. This includes the latest spatial plot for each solute together with the most recent three variants of the 'Trend and Threshold Indicator Matrix' plot described in Section 4.3.

5. Discussion

Environmental risk-based management decisions are often based on limited understanding of groundwater data, and relatively limited statistical analysis of that data. GWSDAT has been designed and developed as a user-friendly, interactive, trend analysis tool for distilling the information from such groundwater monitoring data sets. The application has been used operationally in the monitoring and assessment of Shell's global downstream assets (e.g. refineries, terminals, fuel stations) for a period of over 4 years. Graphical output generated from GWSDAT is routinely included in reports

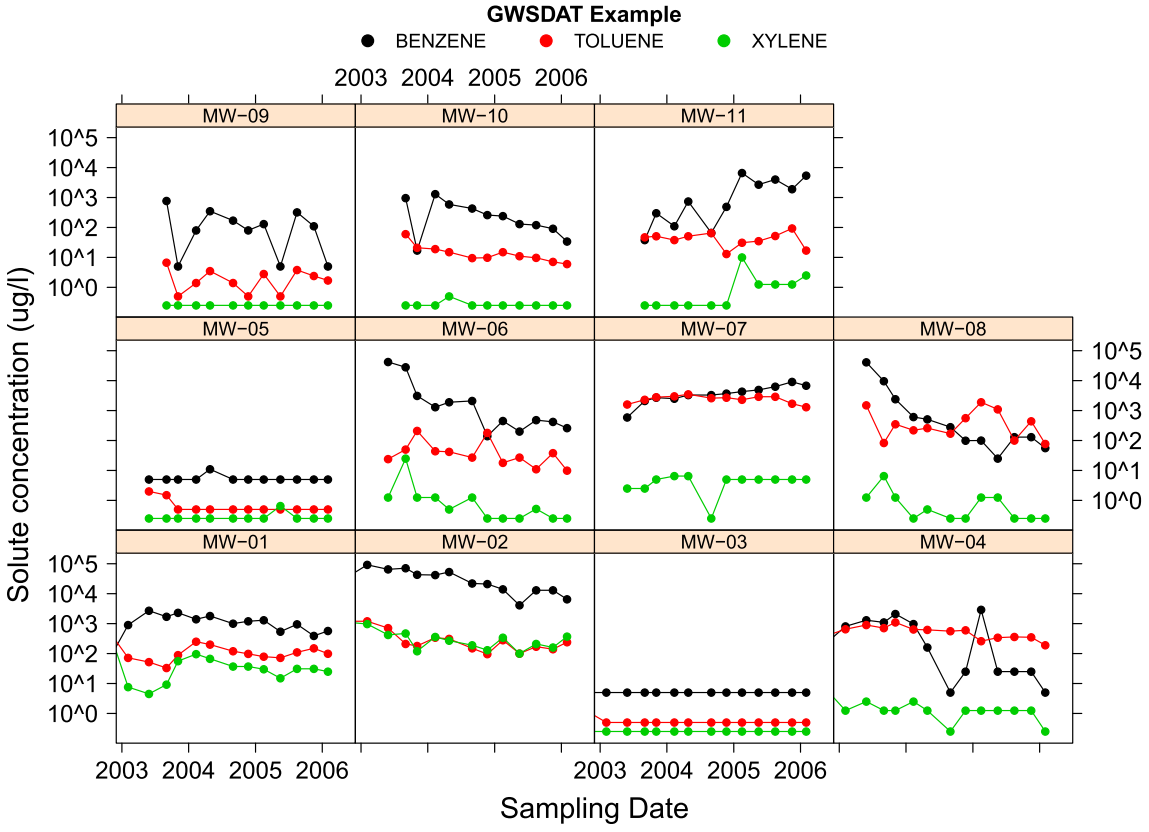


Fig. 6. Example of the GWSDAT Well report plot. The colour key at the top identifies each solute and the name of each well is displayed in a banner at the top of each of the individual time series graphs. This clearly illustrates the correlation in time series trends across the different solutes.

submitted to environmental regulators. Environmental engineers using GWSDAT have reported numerous benefits:

- Rapid interpretation of complex data sets for both small and large groundwater monitoring networks.
- Earlier identification of new spills or off-site migration.
- Reduced reliance on engineered remediation through increased use of monitored natural attenuation remedies, where groundwater data analysis supports its effectiveness.
- Earlier closeout of sites in needless long-term monitoring and/or remediation.
- Simplified preparation of groundwater monitoring reports.

6. Future developments

The major area for future development is the addition of new capabilities to GWSDAT. The assessment of solute plume stability is currently carried out by visually inspecting the evolution of the spatiotemporal solute concentration smoother. Feedback from users has highlighted the need for additional quantitative tools to supplement this graphical method. Development is currently underway to incorporate plume mass balance tools, such as those proposed in Ricker (2008), to automatically estimate plume characteristics such as area, total mass and centre of mass. The inspection of these quantities over the monitoring period will more objectively illustrate whether the plume is moving and if the plume is growing, shrinking or stable.

Future versions of GWSDAT will use spatiotemporal model standard errors to give the user a better understanding of model uncertainty and goodness of fit. The spatial distribution of model standard errors is of particular interest because it provides an assessment of the design of the well monitoring network. Areas of low monitoring density will have larger model standard errors. This not only informs the user that the predictions in this area need to be interpreted with care but also identifies potential locations where the construction of new monitoring wells would improve conceptual understanding of a site, and project decision-making. Model standard errors could also be used in the calculation of the solute plume characteristics mentioned above to provide a confidence interval on these quantities.

Whilst simple to implement, the substitution of non-detect concentration values is not without its disadvantages as discussed by Helsel (2004). These are partly mitigated in GWSDAT by offering the 'worse case' scenario of substitution with the full detection limit as opposed to the usual value of half the detection limit. However, the occurrence of different detection limits for the same solute (perhaps because different laboratories were used during the course of a long-term monitoring programme) is still troublesome as substitution with any constant fraction leads to an apparent trend in concentrations. The authors are currently researching more sophisticated censored regression techniques to handle non-detect data in the spatiotemporal modelling framework.

Acknowledgements

This work was funded by Shell Global Solutions (UK) Ltd. The authors acknowledge contributions from numerous colleagues to the development of GWSDAT: Dr Matthew Lahvis, Dr George Devaull, Dan Walsh, Curtis Stanley, and Professor Jonathan Smith of Shell Projects & Technology HSE Technology; Philip Jonathan of Projects & Technology – Analytical Services: Statistics & Chemometrics; Ewan Crawford, of Glasgow University, Scotland, UK. The views expressed are those of the authors and may not reflect the policy or position of Royal Dutch Shell plc.

Appendix A. Description of statistical modelling techniques

Appendix A.1. Well trend plot smoother

The well trend plot smoother is fitted using a non-parametric method called local linear regression. This involves solving locally the least squares problem:

$$\min_{\alpha,\beta} \sum_{i}^{n} \{y_i - \alpha - \beta(x_i - x)\}^2 w(x_i - x; h) \tag{A.1}$$

where $w(x_i - x;\ h)$ is a weight function with parameter h. The weight function gives the most weight to the data points nearest the point of estimation and the least weight to the data points that are furthest away. For the weight function GWSDAT uses a normally-distributed probability density function with standard deviation h. Local linear regression is deployed in GWSDAT using the R package *sm* (Bowman and Azzalini, 2010, 1997) and h is selected using the method published in Hurvich et al. (1998).

Appendix A.2. Groundwater flow estimation

Vectors of groundwater flow strength and direction are estimated using the well coordinates and recorded groundwater elevations. The model is based on the simple premise that local groundwater flow will follow the local direction of steepest descent (hydraulic gradient).

For a given well, a linear plane is fitted to the local groundwater level data:

$$L_i = a + bx_i + cy_i + \epsilon_i \tag{A.2}$$

where L_i represents the groundwater level at location (x_i, y_i). Local data is defined as the neighbouring wells as given by a Delaunay triangulation (Ahuja and Schacter, 1983; Turner, 2012) of the monitoring well locations. The gradient of this linear surface in both x and y directions is given by the coefficients b and c. Estimated direction of flow is given by:

$$\theta = \tan^{-1}\left(\frac{c}{b}\right) \tag{A.3}$$

and the relative hydraulic gradient (a measure of relative flow velocity) is given by

$$R = \sqrt{b^2 + c^2} \tag{A.4}$$

For any given model output interval this algorithm is applied to each and every well where a groundwater elevation has been recorded.

Appendix A.3. Spatiotemporal solute concentration smoother

The spatiotemporal solute concentration smoother is fitted using a non-parametric regression technique known as Penalised Splines (Eilers and Marx, 1992, 1996). A full and detailed explanation of applying this statistical method to groundwater monitoring data is the subject of another paper (Evers et al., 2014). However, the following outlines some of the most important aspects for the purposes of GWSDAT.

Let y_i be the natural log solute concentration at $x_i = (x_{i1}, x_{i2}, x_{i3})$ where x_{i1} and x_{i2} stand for the spatial coordinates of the well and x_{i3} represents the corresponding time point for the i-th observation with $i = 1, \ldots, n$. We start by modelling the solute concentration as

$$y_i = \sum_{j=1}^{m} b_j(\boldsymbol{x_i})\alpha_j + \epsilon_i \tag{A.5}$$

where the $b_j, j = 1, \ldots, m$ are m B-Spline basis functions, generally second or third order polynomials (Eilers and Marx, 1996). The measurement errors ϵ_i's are assumed to be independent and identically normally distributed with zero mean and variance σ^2. Rewriting Equation (A.5) in the more compact matrix notation leads to

$$\mathbf{y} = \mathbf{B}(\mathbf{x})\boldsymbol{\alpha} + \boldsymbol{\epsilon} \tag{A.6}$$

The traditional ordinary least squares approach is to minimize the objective function $S(\boldsymbol{\alpha}) = ||\boldsymbol{\epsilon}||^2 = \|\boldsymbol{y} - \boldsymbol{B}(\boldsymbol{x})\boldsymbol{\alpha}\|^2$. The well known major disadvantage of this approach is its propensity to overfit data leading to under smoothness in model predictions. To overcome this hurdle, the objective function is modified with the addition of a term that penalises the finite differences of the coefficients of adjacent B-splines. The objective function now takes the form $S(\boldsymbol{\alpha}) = \|\boldsymbol{y} - \boldsymbol{B}(\boldsymbol{x})\boldsymbol{\alpha}\|^2 + \lambda\|D_d\alpha\|^2$ where D_d is a matrix such that $D_d = \Delta^d$, the d-th differences of α, and λ is a nonnegative tuning parameter.

By minimising the new objective function for a given value of λ, we obtain the estimator of the parameters $\widehat{\boldsymbol{\alpha}} = (\boldsymbol{B}'\boldsymbol{B} + \lambda\boldsymbol{D}_d'\boldsymbol{D}_d)^{-1}\boldsymbol{B}'\boldsymbol{y}$. Note that when $\lambda = 0$, we have the standard ordinary least squares estimate for $\widehat{\boldsymbol{\alpha}}$.

Optimal selection of the penalisation parameter λ is a subtle and important matter. A value which is too small leads to 'overfitting', i.e. capturing the noise in the data. Conversely, a value which is too large leads to over smoothing of the data, i.e. 'underfitting'. Several criteria have been traditionally proposed (e.g. Hurvich et al. (1998), Wood (2006)) but the authors tackled this problem using a Bayesian modelling framework which is detailed in Evers et al. (2014).

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Appendix G-2: Supporting GWSDAT Statistical Modeling Reference
Spatiotemporal Regression and P-Spline Methodology

Document Title

Efficient and Automatic Methods for Flexible Regression on Spatiotemporal Data, with Applications to Groundwater Monitoring

Citation

Evers, L., Molinari, D.A., Bowman, A.W., Jones, W.R., and Spence, M.J. (2015). *Efficient and Automatic Methods for Flexible Regression on Spatiotemporal Data, with Applications to Groundwater Monitoring*. *Environmetrics*, 26, 431-441.

Purpose of Inclusion

This document is provided as supporting technical literature describing the Bayesian spatiotemporal regression methodology underlying GWSDAT.

The publication documents:

- Penalized spline (P-spline) regression;
- Spatiotemporal modeling techniques;
- Smoothing parameter selection;
- Groundwater contaminant concentration modeling;
- Development of continuous concentration surfaces from groundwater monitoring datasets.

The statistical methods described in this document support the concentration-surface generation and plume characterization procedures used in the GWSDAT evaluation presented in this Addendum.

Research Article Environmetrics

Received: 14 June 2013, Revised: 30 March 2015, Accepted: 9 May 2015, Published online in Wiley Online Library: 18 June 2015

(wileyonlinelibrary.com) DOI: 10.1002/env.2347

Efficient and automatic methods for flexible regression on spatiotemporal data, with applications to groundwater monitoring

L. Evers[a]*, D. A. Molinari[a], A. W. Bowman[a], W. R. Jones[b] and M. J. Spence[b]

Fitting statistical models to spatiotemporal data requires finding the right balance between imposing smoothness and following the data. In the context of P-splines, we propose a Bayesian framework for choosing the smoothing parameter, which allows the construction of fully automatic data-driven methods for fitting flexible models to spatiotemporal data. An implementation, which is highly computationally efficient and exploits the sparsity of the design and penalty matrices, is proposed. The findings are illustrated using a simulation study and two examples, all concerned with the modelling of contaminants in groundwater. This suggests that the proposed strategy is more stable that competing methods based on the use of criteria such as generalised cross-validation and Akaike's Information Criterion. © 2015 The Authors. *Environmetrics* Published by John Wiley & Sons, Ltd.

All supporting information may be found in the online version of this article.

Keywords: spatiotemporal models; Bayesian methods; smoothing; splines; groundwater

1. INTRODUCTION

Spatiotemporal data have become ubiquitous. In some settings, this has been driven by the development of affordable technology for data collection where spatially located networks of sensors collect data over time. In environmental monitoring, multiple sensors are routinely used to gather data over time, in air, water or land settings. Brain imaging using electro-encephalography or magneto-encephalography is another example where around 200 sensors each record brain signals at very high time resolution, generating large volumes of data. In many scientific contexts, measurements are increasingly made automatically, leading to high-resolution data with a strong degree of regularity, while on other occasions, visits to sites of interest by trained personnel may be required, leading to sparser and more irregular data patterns. The problem discussed in the present paper deals with measurements of groundwater collected from wells and sent for subsequent lab analysis. Barcelona *et al.* (1985) describe the practical details. As mentioned earlier, the practicalities and cost of this inevitably lead to irregularity in time and also in space.

Models for the analysis and interpretation of spatiotemporal data have developed rapidly to match the demands of the data now available and the underlying questions. Sometimes, prediction is the aim, while on other occasions, interest can be directed at assessing the mean levels of the measurement and evidence for change over time. Banerjee *et al.* (2004), Finkenstädt *et al.* (2007) and Cressie and Wikle (2011) provide excellent entry points to the large literature on spatiotemporal modelling, with the last book very helpfully giving coverage of modern hierarchical and dynamic methods in both breadth and depth. These models are usually implemented in a Bayesian setting. In the wider literature, a unifying theme is the expectation that the spatial and temporal patterns exhibited will not follow simple parametric forms, so that models, which can express flexible, but generally smooth shapes, are required. One approach is to apply flexible forms of regression, described for example by Wood (2006), in the spatiotemporal setting. Bowman *et al.* (2009) take this approach to the modelling of sulfur dioxide over Europe throughout the 1990s. P-splines, described by Eilers and Marx (1996), and more general regression splines, offer a very interesting approach through the use of relatively low-dimensional sets of basis functions, and Lee and Durban (2011) apply this to the spatiotemporal modelling of ozone over Europe. The formulation of P-splines offers an interpretation in terms of mixed effects, and Ruppert *et al.* (2003) showed a wide range of settings to which these models can be applied when the random effect interpretation is appropriate. A fully Bayesian P-splines model was introduced by Lang and Brezger (2004), with inference carried out by Markov chain Monte Carlo MCMC. Fahrmeir *et al.* (2004) adopted a model of this type in the specific setting of spatiotemporal data with an empirical Bayes approach, which returns again to a mixed-model representation. Brezger and Lang (2006) provided a wider range of models and efficient updating schemes,

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while Brezger and Lang (2008) discussed simultaneous probability statements for Bayesian P-spline models, again in the context of MCMC implementation. More recently, Wood (2011) explored the Restricted maximum likelihood (REML) approach in detail and developed a fast implementation in a generalised linear modelling framework.

The context of the application discussed in this paper is the monitoring of contamination in groundwater. It is clearly important to assess water quality and its associated risks to human health and the wider environment, and in particular, to detect sudden increases in contaminant concentration due to possible releases. The contaminants in the groundwater are measured using water samples collected from wells and sent for subsequent lab analysis. The practicalities and cost of this inevitably lead to irregularity in time and also in space, even when operating within a fixed set of sampling locations determined by the well positions. The data collection and assessment activity are generally undertaken by staff who have science or engineering backgrounds, but may not have had advanced training in statistical methods. However it is impractical that results should always be referred back to others for statistical analysis, and so there is a practical need for statistical tools that can be implemented easily and robustly as a routine part of the work of those environmental professionals. The analysis therefore needs to be fully automatic and fast to not only carry out but also to produce results, which are reliable, informative, and to aid robust project decision-making.

The aim of the present paper is to address these issues. In order to allow the construction of flexible models over space and time, P-splines are used because of their ability to provide compact representations and to express smoothness control in simple forms, as described in Section 2. A fully Bayesian spatiotemporal model is introduced in Section 3, using conjugate priors to avoid the need for MCMC implementation. In particular, the issue of selecting the degree of smoothness in the model is also addressed in order to produce a fully automatic procedure. A focus will be on issues of 'ballooning', where predictions can be high in areas where there are no data, and this is identified and addressed by appropriate choices of the number of basis functions and the type of smoothness penalty used. The need for speed is addressed through matrix decompositions, which enable the parameter that controls smoothness to be separated out from the computationally intensive parts of the calculation, along similar lines to those used by Ruppert *et al.* (2003), but also exploiting the sparsity of the design matrices associated with the spline basis.

2. SPATIOTEMPORAL SMOOTHING BY P-SPLINES

The P-spline approach to smoothing has become widely used because of its simplicity and its 'low rank' representation of the function of interest. In the simplest case where responses y_i and covariate values x_i are observed for a sample $i = 1, \ldots, n$, the model $y_i = m(x_i) + \varepsilon_i$ describes a flexible underlying relationship through the nonparametric regression function m whose form is unspecified beyond an assumption of smoothness. A basis approach assumes this function can be expressed through a linear combination $\sum_{j=1}^{p} \alpha_j \phi_j(x)$, where the functions $\phi_j(x)$ are usually taken to be B-splines (usually of order 3) because of their efficient construction from polynomial pieces. By modifying the values of the coefficients α_j, a huge range of smooth functions can be created by weighting the local P-spline basis functions, which are centred at a grid of values along the x-axis.

A simple method of extending this to the spatiotemporal setting, where data y_i are indexed over space (s_{1i}, s_{2i}) and time t_i, for $i = 1, \ldots, n$, is to express the regression function as $m(s_1, s_2, t) = \sum_j \sum_k \sum_l \alpha_{jkl} \phi_j(s_1) \phi_k(s_2) \phi_l(t)$, which corresponds to using the tensor product of the marginal B-spline bases. This uses a basis set, which is simply the product of all triples of the marginal basis functions over s_1, s_2 and t. This can be conveniently expressed in vector-matrix form as $\mathbf{Y} = \mathbf{B}\boldsymbol{\alpha} + \boldsymbol{\varepsilon}$, where $\boldsymbol{Y}$ and $\boldsymbol{\varepsilon}$ are vectors of response data and error terms, $\boldsymbol{\alpha}$ is the vector of parameters α_{jkl} and the design matrix $\mathbf{B}$ consists of the basis functions (columns) evaluated at each data point (rows). The design matrix $\mathbf{B}$ can be efficiently constructed through 'row-wise' Kronecker products of the marginal basis functions (Ugarte *et al.*, 2010; Lee and Durban, 2011). The marginal spline bases make use of equally spaced knots, as this simplifies the construction of the penalty that will be employed to regularise the spline coefficients. Tensor product splines are not the only spline-based approach for covering the spatial domain. One alternative method commonly used in this context (see e.g. Kammann and Wand, 2003) are thin-plate splines. The latter have the advantage that they can adapt to the spatial density of the data and thus may lead to a more efficient placement of the spline knots, however, at the expense of having to run an additional algorithm for their placement.

Although this model can be fitted by simple least squares, Eilers and Marx (1996) proposed to use a dense set of basis functions in conjunction with a penalty term to control the degree of smoothness in the estimate. Specifically, the parameter estimate is chosen to be the value of $\boldsymbol{\alpha}$ that minimises

$$\|\mathbf{y} - \mathbf{B}\boldsymbol{\alpha}\|^2 + \lambda \|\mathbf{D}\boldsymbol{\alpha}\|^2 \tag{1}$$

where the matrix $\mathbf{D}$ computes successive differences across the sequence of α_{jkl}'s in each of the three covariate dimensions. Second-order differences are often used. Large values of the smoothing parameter λ thereby induce smoothness in the values of $\boldsymbol{\alpha}$ and hence in the estimated function m. The solution for the basis coefficients is easily seen to be $\hat{\boldsymbol{\alpha}} = (\mathbf{B}^T\mathbf{B} + \lambda\mathbf{D}^T\mathbf{D})^{-1}\mathbf{B}^T\mathbf{y}$. The trace of the matrix $\mathbf{B}(\mathbf{B}^T\mathbf{B} + \lambda\mathbf{D}^T\mathbf{D})^{-1}\mathbf{B}^T$, which creates the fitted values from the data vector $\mathbf{y}$, is defined as the 'effective degrees of freedom' by analogy with standard linear models. This gives a more intuitive scale on which the smoothness of the estimate can be expressed. The details of these methods are described by Eilers and Marx (1996), Ruppert *et al.* (2003), Wood (2006) and many other authors. In particular, Lee and Durban (2011) and Ugarte *et al.* (2010) discuss P-splines in the spatiotemporal setting.

In all forms of flexible or nonparametric regression, the choice of the degree of smoothness for the estimator is a crucial one, and many authors have addressed this issue. Widely used approaches include cross-validation (CV) that, using spatiotemporal notation, chooses λ to minimise $\sum_{i=1}^{n} \{y_i - \hat{m}_{-i}(s_{1i}, s_{2i}, t_i)\}^2$, where the subscript $-i$ indicates that observation i is not included in the construction of the estimate. Generalised cross-validation (GCV) is a popular variation. Akaike's Information Criterion (AIC) and its variation Akaike information criterion (AICc), described by Hurvich and Tsai (1989), are also widely used as a means of balancing the goodness-of-fit of the model against

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its complexity. The general thinking is that AICc is less affected by the under-smoothing to which AIC and cross-validation are sometimes prone. Another commonly used criterion is BIC. The details of all these methods are discussed by many authors, with Wood (2006) as a good starting point.

In the groundwater monitoring setting described in Section 1, the choice of the degree of smoothing is particularly important, as it needs to be implemented in an unsupervised, automatic setting. The panels in Figure 1 show the predicted concentrations at a single time snapshot from a dataset of benzene measurements, using a P-spline spatiotemporal model. The top-left panel shows the effects of using AICc in selecting the smoothness of the estimate. A troubling feature is that there are areas of high predicted values, which are not well supported by the observed data ('ballooning'). The top-right panel shows the results when four wells are omitted. Even though the four omitted wells recorded low concentrations, omitting them causes the unsupported peaks of the posterior distribution to disappear, indicating strong sensitivity of the results to particular observations. A further source of concern is that removing these wells changes the predictions in the immediate vicinity of the wells less than predictions further away. GCV and observation-based cross-validation suffer from the same problem. The results obtained by a Bayesian approach (shown in the bottom two rows) are much less sensitive to the removal of the four wells. The results for cross-validation depend on whether the well structure is used when omitting observations. This will be discussed in more detail in Sections 5 and 6. The single most important factor that causes this 'ballooning' is the design used for collecting the data. However, this design is typically imposed by external constraints and thus cannot be changed.

Another key contributing factor to the 'ballooning' problems is the choice of the number of basis functions used. The computational advantage of using splines over other methods such as kriging depends strongly on the number of basis functions. In almost all practical applications, this number is chosen by finding a reasonable compromise between run time and memory usage. This is not a problematic issue for one-dimensional or two-dimensional data where a moderate number of basis functions (say around 25) present little computational challenge. For spatiotemporal data however, using 25 basis functions for each dimension would result in having to perform expensive matrix operations on a $15,625 \times 15,625$ matrix, which in the context discussed here is not a realistic option.

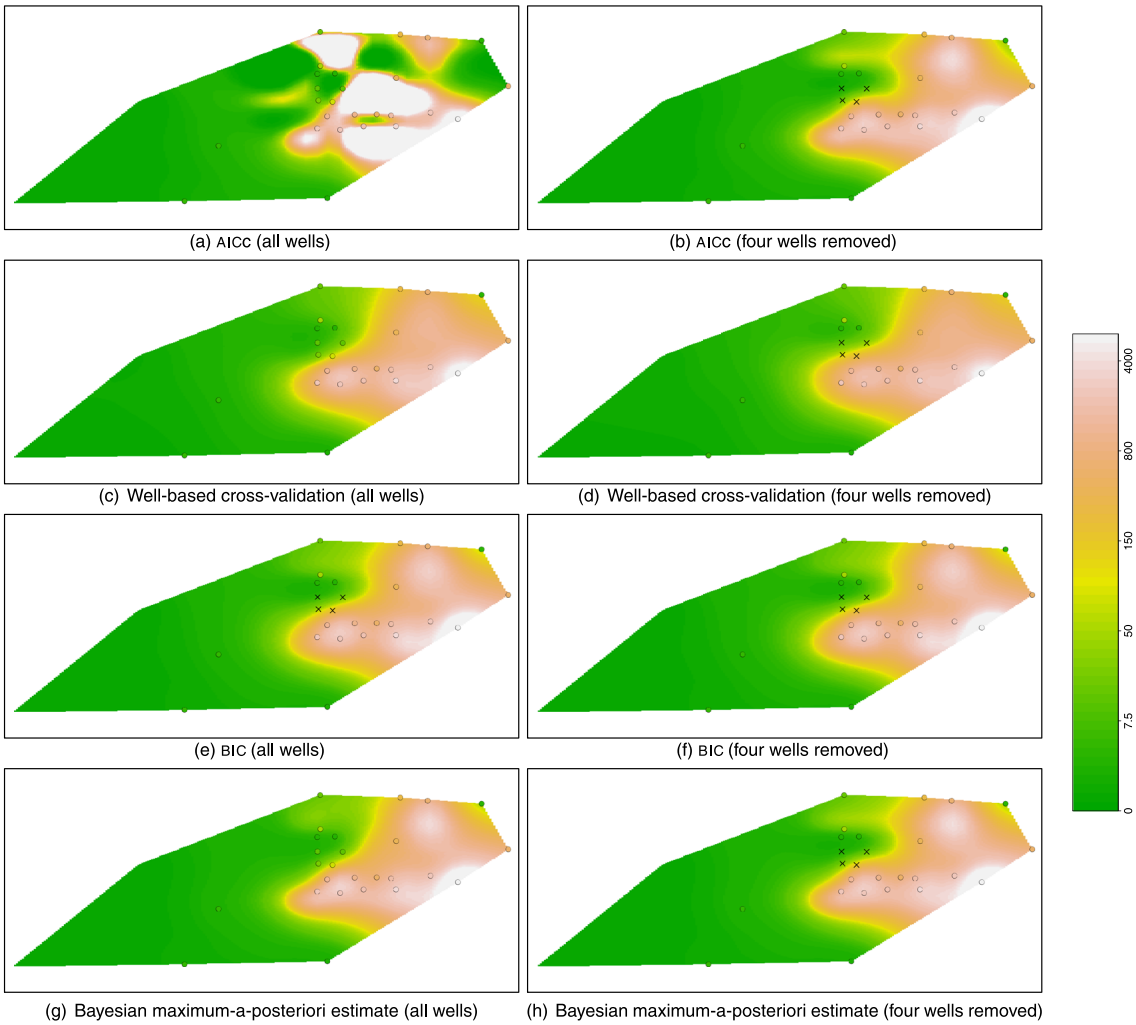


Figure 1. Predictions of the concentration (in $\mu g/\ell$) for the benzene data on one particular day (Section 6.1) using the penalisation parameter chosen by optimising the different criteria, as well as fully Bayesian model averaging. The left column was obtained by using all wells, the right column was obtained after removing four wells (marked by crosses). Using generalised cross-validation or observation-based cross-validation gives results very similar to AICc

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In the context of spatiotemporal models, a low number of basis functions are usually chosen, and this raises the question of whether it is also necessary to use a penalty to induce smoothness, given that the low number of basis functions already offers some protection against over-fitting. The results discussed in Sections 5 and 6, however, show that using a penalty is especially important in this case, as it helps to prevent 'ballooning'.

The methods of selecting smoothness and the number of basis functions used are not the only factors in the appearance of this 'ballooning' effect of high and low values. The use of a second-order smoothness penalty encourages the appearance of linear sections, especially if there is a gap in the data, as these linear sections do not attract any penalty. Depending on the data around the gap, this can lead to a high peak or deep valley with little support from neighbouring observations. Using a first-order smoothness penalty typically lessens the problem to some extent, but is, on its own, often not enough to avoid 'ballooning' altogether. Choosing a different transformation of the response variable, such as the logarithm or the square root, can, depending on the data and the transform used, also have an effect.

There is a vast literature on the selection of the smoothing parameter for spline-based models in order to avoid over-fitting or under-fitting. The focus of this work is on the problem of 'ballooning', which is a different phenomenon.

3. BAYESIAN SPATIOTEMPORAL SMOOTHING

This section sets out how a Bayesian framework can be used to select the smoothing parameter. The starting point in the classical Bayesian linear model formulation (see e.g. Denison *et al.*, 2002) is adapted to the spatiotemporal setting. If the model determined by a particular value of the penalisation parameter λ is denoted by M_λ then, using the model described earlier, the likelihood function is derived from

$$\boldsymbol{Y}|\boldsymbol{\alpha}, \sigma^2, M_\lambda \sim \mathcal{N}\left(\boldsymbol{B}\boldsymbol{\alpha}, \sigma^2 \boldsymbol{I}_n\right)$$

with $\boldsymbol{Y} \in \mathbb{R}^n$, $\boldsymbol{B} \in \mathbb{R}^{n\times m}$ and $\boldsymbol{\alpha} \in \mathbb{R}^m$. For a fixed value of smoothing parameter, a conjugate prior for the parameters $\boldsymbol{\alpha}, \sigma^2$ is the normal-inverse gamma, that is,

$$\boldsymbol{\alpha}, \sigma^2 | M_\lambda \sim \mathcal{NIG}\left(\mathbf{0}, (\lambda \boldsymbol{D}'\boldsymbol{D})^{-1}, a, b\right)$$

In Sections 5 and 6, we use $a = b = 0.0001$ to acknowledge the uncertain prior information on the parameter σ^2.

The posterior distribution of the penalisation parameter λ can be shown to be

$$f_{M_\lambda|\boldsymbol{Y}} \propto \lambda^{\text{rank}(\mathbf{D}'\mathbf{D})/2} \frac{|\boldsymbol{B}'\boldsymbol{B} + \lambda \boldsymbol{D}'\boldsymbol{D}|^{-1/2}}{\left\{2b + \boldsymbol{y}'\left[\boldsymbol{I_n} - \boldsymbol{B}(\boldsymbol{B}'\boldsymbol{B} + \lambda \boldsymbol{D}'\boldsymbol{D})^{-1}\boldsymbol{B}'\right]\boldsymbol{y}\right\}^{a+n/2}} f^{\text{prior}}_{M_\lambda}$$

This is a special case of model comparison of Bayesian linear models, here using λ as the model index; for a general result see for example, Denison *et al.* (2002, equation 2.24, which gives the general principle for the comparison of Bayes factor). One difficulty in the present context is the degenerate nature of the prior for $\boldsymbol{\alpha}$, expressed in the rank deficiency of the differencing matrix $\mathbf{D}$. This can be handled by use of an additional ridge penalty, which gives the matrix $\mathbf{D}$ full rank. The posterior distribution shown earlier can be obtained by considering the limit as this ridge penalty goes to 0. Alternatively, it is possible to decompose the regression coefficients $\boldsymbol{\alpha}$ into two components, one of which has a flat improper prior and the other a proper Gaussian prior. This approach is discussed in more detail in the Appendix.

The main difference between this approach and the random-effects formulation of Ruppert *et al.* (2003) is that both the regression coefficients and the variance are handled in a Bayesian way, resulting in a fully Bayesian model.

In Sections 5 and 6, a non-informative improper uniform prior is used for f_{M_λ}. The value of λ that maximises this posterior density, known as the MAP (*maximum a posteriori*) value, is then adopted for penalisation. Additionally, a fully Bayesian approach, numerically integrating out the penalty parameter λ, is considered.

The use of conjugate priors is a computational convenience that addresses the need for fast computation, as MCMC or other solutions required for dealing with non-conjugate priors would be infeasible, given the time constraints which apply. Only when a conjugate prior is placed on $\boldsymbol{\alpha}$ and σ^2 is it possible to compute efficiently the marginal posterior probability of a given model M_λ. The proposed methodology works with any prior placed on M_λ. The flat prior used in Sections 5 and 6 is used for convenience. The results are however not sensitive to reasonable choices for the prior on M_λ.

4. COMPUTATIONAL ISSUES

Computation of the MAP distribution requires the determinant of the posterior covariance matrix of $\boldsymbol{\alpha}$ as well as the posterior residual sum of squares, which in turn requires computation of the penalised least-squares estimator minimising the objective function (1). The penalised least-squares estimator and the determinant have to be recomputed for every value of λ under consideration. This requires matrix operations, which are $O(p^3)$, where p is the number of regression parameters. For a spatiotemporal penalised spline model using p_0 basis functions in each dimension, we have $p \sim p_0^3$; thus, the cost of the matrix operations is $O(p_0^9)$

However, the problem can be rewritten (see e.g. Wood, 2000; Ruppert *et al.*, 2003) in such a way that the expensive linear algebra operations can be performed independently of λ, and only $O(p^2)$ operations have to performed for every value of λ. This allows the MAP solution to be computed much more efficiently.

Both the matrix of basis functions $\mathbf{B}$ and the differencing matrix $\mathbf{D}$ are sparse. Exploiting this sparseness allows further improvement in computational efficiency. However, for a trivariate P-spline problem with a moderate number of knots, the matrix $\mathbf{B}$ is much more dense

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than the matrix **D**. For example, if 10 basis functions are used for each dimension, roughly 14% of the entries of **B** are non-zero, whereas less than 0.3% of the entries of **D** are non-zero. Sparsity can therefore be exploited most effectively by working initially only on the matrix **D**, in contrast to the approaches set out by Wood (2000) and Ruppert *et al.* (2003), which start by manipulating the matrix **B**. The approach set out in detail in the Appendix is loosely based on the method described by Eldén (1977). The core idea is to exploit the sparseness of the matrices for almost all matrix operations. However, each matrix decomposition creates 'in-fill', and so the matrices become increasingly dense. Only the final step, a singular value decomposition, is computed using dense methods. This implies that exploiting the sparsity of the design matrix and penalty matrix will not allow the implementation to become much more than twice as fast as the corresponding dense methods. However, in the context of this work, where the aim is to obtain results within less than a minute, this offers a significant increase in speed. In addition, exploiting the sparseness reduces the amount of memory used.

5. SIMULATION STUDY

In this section, a simple simulation study is used to compare the different methods of selecting the smoothing parameter in a systematic way. The data are simulated from a highly idealised model for the spread of a solute in water. This is based on the partial differential equation

$$\frac{\partial y}{\partial t} = D \cdot \left(\frac{\partial^2 y}{\partial s_1^2} + \frac{\partial^2 y}{\partial s_2^2} \right) + \psi_1(s_1, s_2) \frac{\partial y}{\partial s_1} + \psi_2(s_1, s_2) \frac{\partial y}{\partial s_2}$$

Here, y denotes the concentration of the solute, s_1 and s_2 denote the spatial coordinates and $t \in [0, 1]$ denotes time. The first term describes the spread of the solute in the groundwater by diffusion, with the constant D controlling how fast the solute spreads. The two further advection terms describe how the solute is affected by groundwater flow, whose direction and velocity is represented by the functions ψ_1 and ψ_2. These functions were chosen to correspond to the observed groundwater levels in the benzene example discussed in Section 6.1.

Figure S1(a) shows the assumed groundwater levels and flow, which in the simulations are assumed for simplicity to be constant over time, as well as the assumed initial spread of the solute and its evolution over time. The 'true' concentrations were obtained by interpolating the numerical solution to the differential equation, computed over a $100 \times 100 \times 100$ regular grid. Observed measurement data were generated by multiplicative Gaussian error terms, with standard deviation chosen to give a signal-to-noise ratio on the log-scale of 10 : 1. This reflects the fact that measurements of the solutes are usually quite accurate. A very small value of 0.05 was used for within-well correlation of the data, while the between-well correlation was assumed to be 0. Before the data were analysed, they were transformed using the function $\log(y + 1)$. The additive term was introduced because the simulations can produce concentrations of exactly 0. All model fitting and evaluation were performed on the transformed scale.

A P-spline model using second-order basis functions and a first-order penalty was used with 14 basis functions for easting, eight for northing and five for time. The different number of basis functions for space matches the different extents of the monitored region in easting and northing in the guiding example, while the reduced number of basis functions for time was chosen to reflect the fact that concentrations vary more quickly in space than in time. Addressing these issues through the basis functions allows a single smoothing parameter to be used in the model. Where little a priori information on solute behaviour is available, a natural default would be to choose a common number of basis functions in each dimension. The overall number of basis functions is deliberately chosen to be rather low to allow fast computations. Experimentation has shown these numbers of basis functions to be effective from this perspective, in addition to preventing 'ballooning' or over-fitting and producing good estimates of the underlying solute patterns.

Three different designs were used. The first scenario uses exactly the same well coordinates and sample dates as the benzene example discussed in Section 6.1. It consists of 1402 observations sampled at 29 well locations. The second scenario uses a much larger number of 280 randomly placed wells that are sampled much less frequently, resulting in the same number of observations. The second scenario is a much better design from a statistical point of view but is, of course, much more expensive, as establishing a new well is considerably more costly than collecting a sample from an existing one. The third scenario uses the same wells as the first scenario, but only has 100 observations in total, with each well sampled only about four times on average.

For all three scenarios, the methods were compared using the integrated squared error

$$\int \int_{\mathcal{S}} \int (\hat{m}(s_1, s_2, t) - m(s_1, s_2, t))^2 ds_1 ds_2 dt$$

The integral was computed numerically over the inside of the convex hull of the observed wells and sampling dates.

Table 1 shows the results obtained from 500 replications for all three scenarios. From the table, it is immediately clear that no one method outperforms all other methods for all three scenarios.

Out of the three scenarios presented, only scenario one is prone to 'ballooning'. In this situation, AICc and GCV show poor performance. These two criteria, as well as observation-based cross-validation, lead to severe 'ballooning'. The Bayesian approaches (BIC, MAP and model averaging) give much better performance, with no evidence of 'ballooning'. The predicted concentration surfaces obtained using the different criteria are given in Figure S2. Figure 2 (a) shows density strip plots (Jackson, 2008) of the distribution of the smoothing parameter λ for each method. This shows that the Bayesian approaches and well-based cross-validation select values of the smoothing parameter λ, which are large enough to prevent 'ballooning'. The problems with other methods are caused by values of λ, which are too low.

Although BIC performs very well if the focus is on preventing ballooning, it is prone to under-fitting. In the second scenario, which provides the 'best' data for estimating the concentrations, BIC performs significantly worse than the other methods. As Figure 2 (b) shows, this is because of selecting a value for λ, which is too large.

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Table 1. Integrated squared errors of the predictions averaged over the convex hull of the data for the three well scenarios

Criterion used to select smoothness	Scenario 1		Scenario 2		Scenario 3	
	mean	(std. err.)	mean	(std. err)	mean	(std. err)
AICc	313.326	(258.319)	0.137	(0.003)	0.870	(0.009)
Generalised cross-validation	348.947	(276.003)	0.139	(0.001)	3.780	(2.282)
obs.-based CV	3.552	(0.216)	0.141	(0.001)	1.023	(0.016)
well-based CV	0.809	(0.012)	0.138	(0.001)	0.902	(0.012)
BIC	1.028	(0.013)	0.179	(0.001)	0.875	(0.003)
Bayesian MAP	1.662	(0.020)	0.136	(0.001)	0.863	(0.005)
Bayesian model avg.	1.639	(0.019)	0.136	(0.001)	0.858	(0.005)

In all three scenarios, the MAP and the fully Bayesian approach give good results, being the best method in the second and the third scenarios.

Cross-validation is, by far, the most computationally demanding method. In the simulations, and in Section 6, 10-fold cross-validation was used. The results depend on how the cross-validation is carried out. One option is to remove entire wells rather than single observations, and in this case, cross-validation favours very large values of the penalty parameter. In contrast, if the well structure is ignored and individual observations are removed, cross-validation favours very small values of the penalty parameter. The reason for the difference is that in this dataset, 'ballooning' occurs only in space and not in time. There is a small number of wells, and these are sampled very frequently in time. Omitting observations individually typically does not create gaps in time, which are large enough to allow 'ballooning' at individual wells. Cross-validation can therefore address 'ballooning' only if a well is omitted entirely. The difference between the two variants is much less pronounced in the second and third scenarios.

The proposed model can be extended by allowing two separate smoothing parameters, one for space and one for time. Only one of these tuning parameters can be tuned using the efficient linear algebra in Section 4. Tuning the second smoothing parameter requires recalculating all the matrix decompositions described in the Appendix for each candidate value of the second smoothing parameter, which significantly slows down the computations. However, when two smoothing parameters are used in scenario one, the temporal smoothing parameter is estimated to be around 20 times the spatial smoothing parameter. This might suggest that the use of a single smoothing parameter is inappropriate, but the models with two smoothing parameters are more likely to suffer from ballooning, leading to a poorer fit. If the ratio of the smoothing parameters is chosen to minimise the mean-square error on the test data, one would choose both smoothing parameters to be roughly equal, suggesting that a single smoothing parameter helps preventing ballooning and allows a more robust estimation of the concentration surface. This supports the use of a single smoothing parameter.

6. APPLICATION TO GROUNDWATER MONITORING

6.1. Monitoring of benzene in groundwater

Benzene (C_6H_6) is a constituent of crude oil and refined petrol, which can have serious adverse health (and ecological) effects if released into the environment. A release from an underground storage tank system can result in benzene contaminating the groundwater below the storage tank system. After such releases, networks of wells are set up to monitor possible groundwater contamination. The contaminant of interest is the concentration of benzene in $\mu g/\ell$ (modelled on a log-scale). The data consist of 1402 observations, which were obtained from a network of 29 wells, with considerable irregularity in the spatial and temporal spacing of the observations. A p-spline model using second-order basis functions and first-order difference penalties was fitted, with the smoothing parameter determined using different criteria. Different numbers of basis functions were chosen for the two spatial dimensions, with 18 for easting and 11 for northing, to reflect the different spatial extents in these directions. To reflect the fact that the level of spatial variation is expected to exceed the temporal variation, a smaller number (7) of basis functions were used for the time margin. The choice of the numbers of basis functions therefore provides a simple device for allowing appropriately differential degrees of smoothing in different dimensions, while retaining the very large computational advantage of a single overall penalty parameter.

Figure 3 depicts the choice of the optimal value of the penalty parameter for this example. In the case of the Bayesian MAP approach, the optimal choice is given by the value of λ, which maximises its posterior distribution. It is noticeable that AICc, GCV and observation-based cross-validation all lead to very low estimates of the smoothing parameter, which effectively 'switches off' the penalty, leading to 'ballooning'. BIC and well-based cross-validation select a much larger value of the smoothing parameter, preventing 'ballooning'. Using a fully Bayesian approach (MAP or full model averaging) results in a smoothing parameter, which is smaller than the one selected by BIC and well-based cross-validation but is still big enough to prevent 'ballooning'. The posterior distribution of λ is typically quite narrow, so using the MAP usually gives results very similar to a fully Bayesian treatment of the smoothing parameter, which involves averaging over λ. This is borne out in this example, as well as in the simulations in Section 5. As shown in Figure 1 and discussed in Section 2, the MAP is not sensitive to the removal of the four wells, shown as crosses in the right-hand column of plots. In contrast, the values chosen by AICc, GCV and observation-based cross-validation are highly sensitive, with removal of the wells resulting in a big change in the predictions with much more credible predicted concentrations. This highlights that the well design plays a key role.

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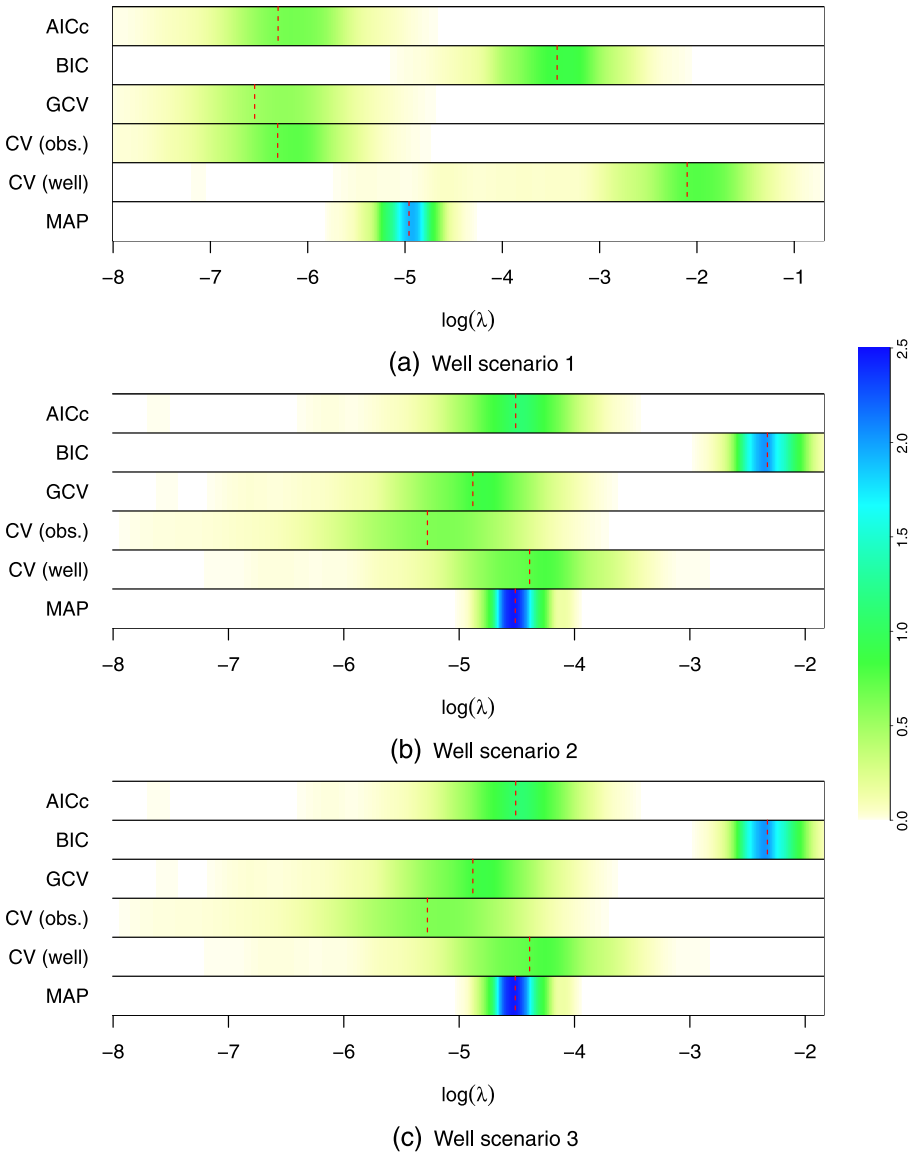


Figure 2. Density strip plots of the smoothing parameters chosen by the different methods for both scenarios. The dashed red line indicates the median

6.2. Monitoring of methyl tertiary butyl ether in groundwater

A more extensive example of the use of these techniques is provided by retrospective analysis of a dataset on a pollution event at a refinery site. MTBE (methyl tertiary butyl ether) is a petrol additive designed to reduce engine knocking and noxious emissions. MTBE is no longer in routine use at the site studied but was present in the refinery at the time of the event. On entry to groundwater, MTBE moves conservatively because of its high aqueous solubility and low retardation potential. It degrades only slowly under anaerobic conditions. Figure 4 shows a schematic plan of the site with colour-coded points to indicate the concentrations of MTBE measured at the monitoring wells at a date near the time of the MTBE release. Standard methods of analysis in this setting were to inspect individual well measurements over time to identify trends. Geographical information systems were available and these were helpful for individual time snapshots but these could not easily be adapted to show the evolving dynamics of the incident. Figure 5 (and the earlier Figure 1) was created using the `rp.spacetime` function from the current version of the `rpanel` (Bowman *et al.*, 2007) package for `R` (R Development Core Team, 2011). This shows the estimated pollution surface at four time points using the Bayesian smoothing model described in Section 3, using 18 basis functions for easting, 22 basis functions for northing, 14 basis functions for time and the MAP estimate of λ. Despite the presence of protective pumping wells at the north–west boundary of the refinery site, the threat of MTBE migrating across the site boundary and potentially reaching drinking water wells required immediate action. The first time point shown in Figure 5 corresponds to the upgrading of a line of wells used to form a flow barrier in the middle of the site. The effectiveness of these wells was greatly improved, and the resulting curtailment of the plume to the north-west is apparent. Subsequently, the source of the MTBE release was identified near the south–east corner of the site, and the model clearly tracks the dissipation and attenuation of MTBE and the end of the incident. The shape and direction of the plume are clear and consistent with the south–east/north–west gradient in groundwater flow. Figure S4 shows the estimate of the time trend for four selected wells.

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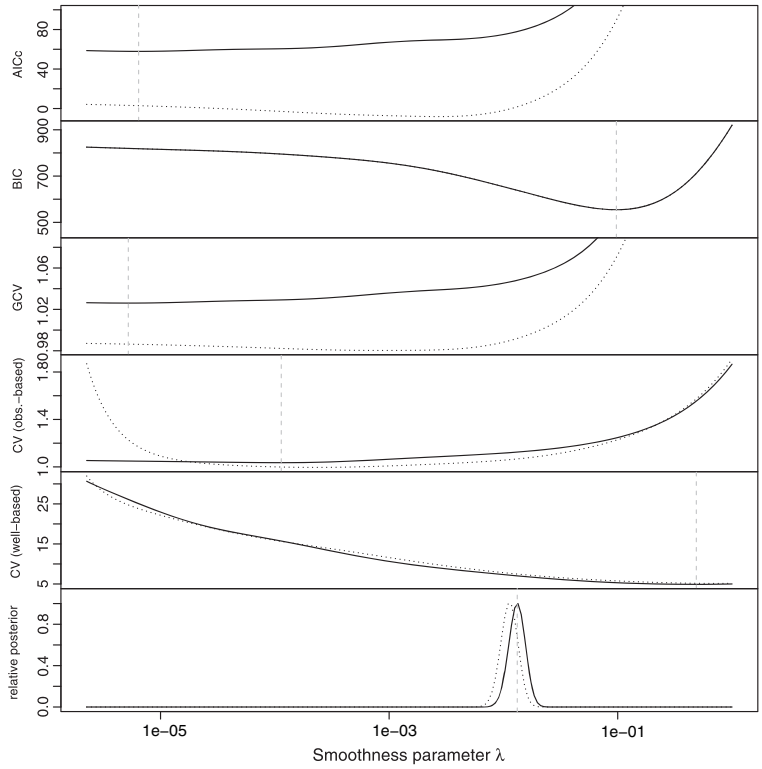


Figure 3. Different objective functions that can be used to determine the optimal amount of smoothing, applied to the benzene data. The solid lines were obtained using all wells. The dotted lines were obtained after removing four wells. The vertical dashed lines indicate the location of the minimum when all wells are used

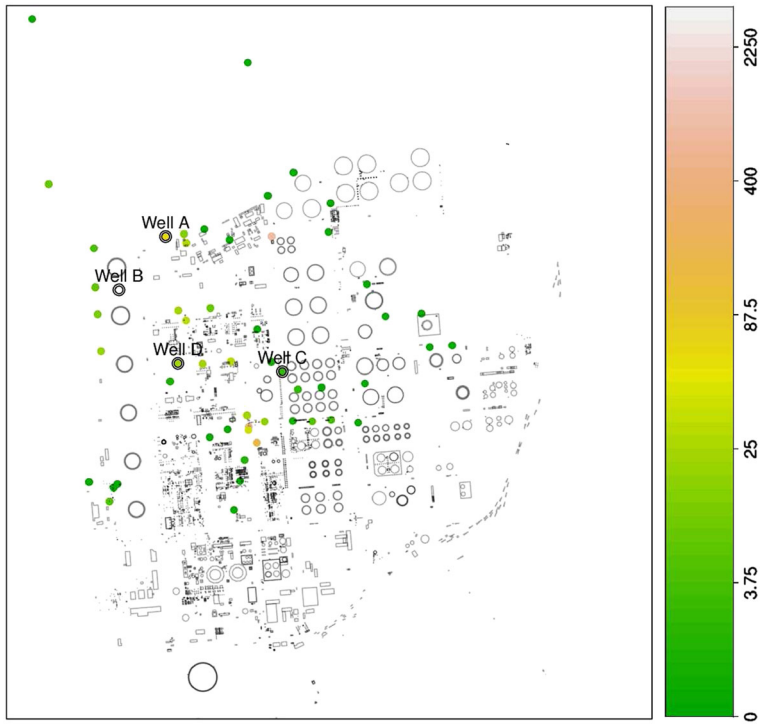


Figure 4. Plan of the refinery site and wells. The wells are colour-coded according to observed concentrations of methyl tertiary butyl ether immediately after release

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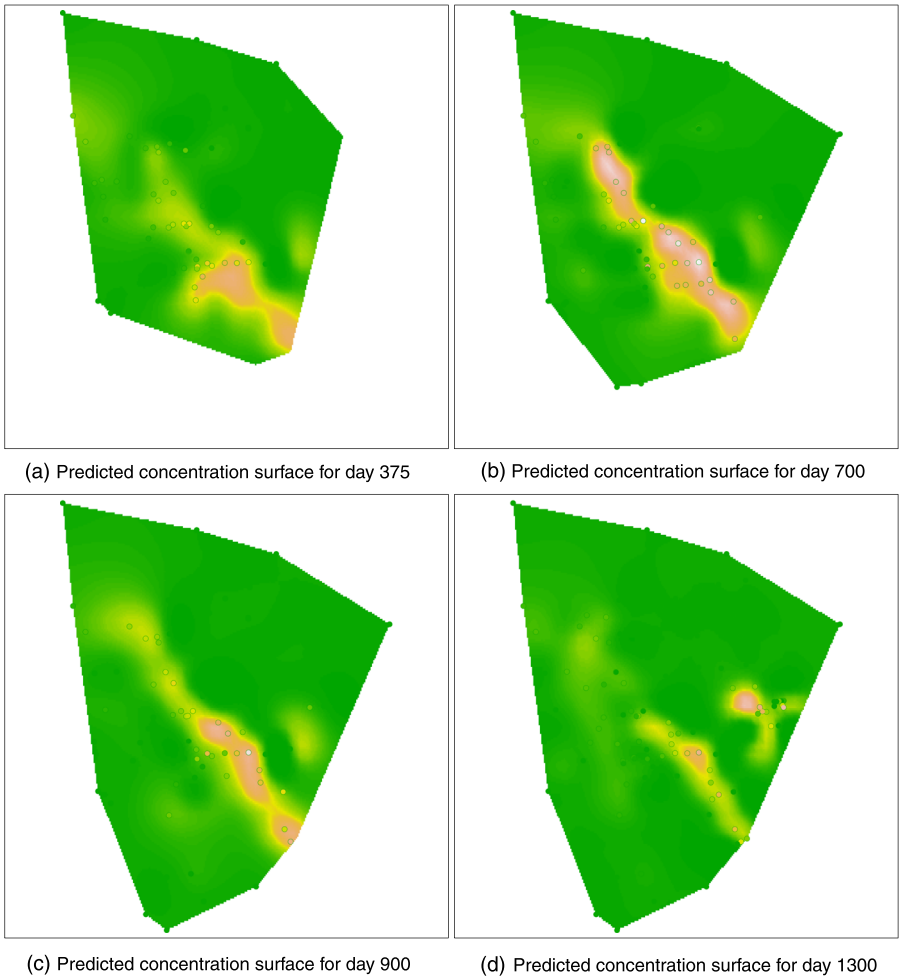


Figure 5. Predicted levels of methyl tertiary butyl ether concentration across space obtained using the maximum a posteori estimate of the smoothing parameter for four time points. The colour scale is the same as that used in Figure 4

In order to assess the effect of the number of basis functions, we have also investigated a model with fewer basis functions (14 basis functions for easting, 17 basis functions for northing and 10 basis functions for time) and a model with an increased number of basis functions (22 basis functions for easting, 26 basis functions for northing and 15 basis functions for time). The smaller model uses about half of the number of parameters of the model shown in Figures 5 and is about eight times faster, as suggested by the computational complexity of the final eigenvalue decomposition. The larger model has about twice as many parameters than the aforementioned model and takes about eight times as long to fit. The smaller model suffers from ballooning in the North East, whereas the larger model gives results similar to the model used. Plots of the estimated concentration surface obtained from these two models are available in Figure S5.

7. DISCUSSION

A fully automatic Bayesian framework for determining the smoothing parameter in spatiotemporal P-spline models has been proposed. The focus was on a situation where the key objective was to deliver, on a fast timescale, automatic and robust estimates of the distribution of a solute in groundwater and the corresponding plume geometry. In particular, there was a need to avoid spurious local extrema of the predictive surface with little support in the data ('ballooning'), which can sometimes occur in regions where the well design is sparse.

In our experience, and evidenced by the simulation study and the two real-world examples presented, the Bayesian methods studied are more stable than competing strategies based on criteria such as the AICc or GCV. While BIC is very good at avoiding 'ballooning', it can also lead to over-smoothing, to which the other Bayesian methods are less prone. If used appropriately, which is difficult to judge without prior knowledge, cross-validation can be very effective at preventing 'ballooning', but it has a rather high computational cost.

Although our focus was on spatiotemporal models, the methods can also be applied to other smoothing problems in which the use of a single smoothing parameter is appropriate, possibly after rescaling of parts of the penalty or adjustment of the number of basis functions.

The use of splines is not the only way of constructing spatiotemporal models for the contamination of groundwater. A particularly attractive alternative would be the use of a model based on the underlying physical processes. However, such models require a good understanding of the geology of the site, which in turn requires additional information that is not always readily available.

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In our experience the problem of 'ballooning' is not limited to splines. 'Ballooning' can also occur when using other techniques such as kriging with a Matérn covariance. In the latter case, the severity of the problem of 'ballooning' depends on how the shape parameter of the covariance function is chosen, and also whether the data adhere to the implied assumptions of stationarity and isotropy. The P-spline based approach has the key advantage of not requiring the latter assumption.

The methodology set out above is implemented in GWSDAT, a fully automatic tool for the analysis of groundwater contaminants developed by Shell Global Solutions (Jones *et al.*, 2014).

Acknowledgements

This work was partly funded by Shell Global Solutions (UK) Ltd. The views expressed are those of the authors and may not reflect the policy or position of their employing organisations.

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APPENDIX A: COMPUTATIONAL DETAILS

Without loss of generality, we shall assume that $\mathbf{D}$ has full row rank. If not, replace $\mathbf{D}$ by the non-zero rows of $\mathbf{R}$ from a QR decomposition $\mathbf{D} = \mathbf{QR}$.

If the differencing matrix $\mathbf{D}$ is of full column rank, we could reparametrise the problem using $\tilde{\boldsymbol{\alpha}} = \mathbf{D}\boldsymbol{\alpha}$ yielding the ridge-regression problem

$$\mathbf{y}|\tilde{\boldsymbol{\alpha}} \sim \mathcal{N}(\mathbf{B}\mathbf{D}^{-1}\tilde{\boldsymbol{\alpha}}, \sigma^2\mathbf{I}), \qquad \tilde{\boldsymbol{\alpha}} \sim \mathcal{N}(\mathbf{0}, \sigma^2\lambda^{-1}\mathbf{I})$$

which can be solved independently of λ using a singular value decomposition (see e.g. Golub and Van Loan, 1996).

However, in P-spline problems, the matrix $\mathbf{D}$ does not have full column rank. Thus, we have to identify the subspace of the covariate space on which the penalty does not act. This can be carried out using a QR decomposition of $\mathbf{D}' = (\tilde{\mathbf{Q}}_1, \tilde{\mathbf{Q}}_2)\begin{pmatrix}\tilde{\mathbf{R}}_1\\ \mathbf{0}\end{pmatrix}$. Setting $\tilde{\boldsymbol{\alpha}}_1 = \tilde{\mathbf{R}}_1'\tilde{\mathbf{Q}}_1'\boldsymbol{\alpha}$, $\tilde{\boldsymbol{\alpha}}_2 = \tilde{\mathbf{Q}}_2'\boldsymbol{\alpha}$, $\tilde{\mathbf{B}}_1 = \mathbf{B}\tilde{\mathbf{Q}}_1\tilde{\mathbf{R}}_1'^{-1}$, $\tilde{\mathbf{B}}_2 = \mathbf{B}\tilde{\mathbf{Q}}_2$ and $\tilde{\mathbf{D}}_1 = \tilde{\mathbf{R}}'$ allows rewriting the problem as

$$\mathbf{y}|\tilde{\boldsymbol{\alpha}}_1, \tilde{\boldsymbol{\alpha}}_2 \sim \mathcal{N}(\tilde{\mathbf{B}}_1\tilde{\boldsymbol{\alpha}}_1 + \tilde{\mathbf{B}}_2\tilde{\boldsymbol{\alpha}}_2, \sigma^2\mathbf{I}), \qquad \tilde{\boldsymbol{\alpha}}_1 \sim \mathcal{N}(\mathbf{0}, \sigma^2\lambda^{-1}\mathbf{I}), \qquad p(\tilde{\boldsymbol{\alpha}}_2) \propto 1$$

This rotation of the variable space allows the regression coefficient to be split into two vectors: one, $\tilde{\boldsymbol{\alpha}}_1$, with a proper standard normal prior and one, $\tilde{\boldsymbol{\alpha}}_2$, with an improper flat prior. This can be interpreted as a mixed effects model, with $\tilde{B}_2$ being the design matrix of the fixed effects and $\tilde{B}_1$ being the design matrix of the random effects.

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Finally, we perform a rotation of the observation space, such that the design matrix of $\tilde{\boldsymbol{\alpha}}_2$ only has l non-zero rows, where l is the length of the vector $\tilde{\alpha}_2$. This is achieved by computing the QR decomposition of $\tilde{\mathbf{B}}_2 = (\breve{\mathbf{Q}}_1, \breve{\mathbf{Q}}_2)\begin{pmatrix}\breve{\mathbf{R}}_1\\ \mathbf{0}\end{pmatrix}$.

Considering the response $\breve{\mathbf{y}} = (\breve{\mathbf{y}}_1', \breve{\mathbf{y}}_2')' = (\breve{\mathbf{Q}}_1, \breve{\mathbf{Q}}_2)'\mathbf{y}$ as well as setting $\breve{\mathbf{B}}_{11} = \breve{\mathbf{Q}}_1\tilde{\mathbf{B}}_1$, $\breve{\mathbf{B}}_{21} = \breve{\mathbf{Q}}_2\tilde{\mathbf{B}}_1$ and $\breve{\mathbf{B}}_{12} = \breve{\mathbf{Q}}_1\tilde{\mathbf{B}}_2$ yields the equivalent model assumption

$$\begin{pmatrix}\breve{\mathbf{y}}_1\\ \breve{\mathbf{y}}_2\end{pmatrix}\Bigg|\, \tilde{\boldsymbol{\alpha}}_1, \tilde{\boldsymbol{\alpha}}_2 \sim \mathcal{N}\left(\begin{pmatrix}\breve{\mathbf{B}}_{11} & \breve{\mathbf{B}}_{12}\\ \breve{\mathbf{B}}_{21} & \mathbf{0}\end{pmatrix}\begin{pmatrix}\tilde{\boldsymbol{\alpha}}_1\\ \tilde{\boldsymbol{\alpha}}_2\end{pmatrix}, \sigma^2\mathbf{I}\right)$$

with the same priors for $\tilde{\boldsymbol{\alpha}}_1$ and $\tilde{\boldsymbol{\alpha}}_2$ as aforementioned. The posterior distribution of $\tilde{\boldsymbol{\alpha}}_1$ and $\tilde{\boldsymbol{\alpha}}_2$ given $\breve{\mathbf{y}}$ is a normal distribution, with the penalised least-squares estimates $\widehat{\tilde{\boldsymbol{\alpha}}_1}$ and $\widehat{\tilde{\boldsymbol{\alpha}}_2}$ as mean and unscaled covariance matrix

$$\begin{pmatrix}\breve{\mathbf{B}}_{11}'\breve{\mathbf{B}}_{11} + \breve{\mathbf{B}}_{21}'\breve{\mathbf{B}}_{21} + \lambda\mathbf{I} & \breve{\mathbf{B}}_{11}'\breve{\mathbf{B}}_{12}\\ \breve{\mathbf{B}}_{12}'\breve{\mathbf{B}}_{11} & \breve{\mathbf{B}}_{12}'\breve{\mathbf{B}}_{12}\end{pmatrix}$$

Its determinant can be shown to be

$$\det(\breve{\mathbf{B}}_{21}'\breve{\mathbf{B}}_{21} + \lambda\mathbf{I}) \cdot \det(\breve{\mathbf{B}}_{12}'\breve{\mathbf{B}}_{12})$$

by using the Leibnitz formula and exploiting the fact that by construction, $\breve{\mathbf{B}}_{12}$ is invertible. The penalised least squares estimate can be found by exploiting the fact that the residual corresponding to $\breve{\mathbf{y}}_1$ can be set to $\mathbf{0}$ by setting

$$\widehat{\boldsymbol{\alpha}_2} = \breve{\mathbf{B}}_{12}^{-1}\left(\breve{\mathbf{y}}_2 - \breve{\mathbf{B}}_{11}\widehat{\tilde{\boldsymbol{\alpha}}_1}\right)$$

Thus, $\widehat{\tilde{\boldsymbol{\alpha}}_1}$ can be found by considering the reduced ridge regression problem involving only only the coefficient $\tilde{\boldsymbol{\alpha}}_1$:

$$\breve{\mathbf{y}}_2|\tilde{\boldsymbol{\alpha}}_1 \sim \mathcal{N}(\breve{\mathbf{B}}_{21}\tilde{\boldsymbol{\alpha}}_1, \sigma^2\mathbf{I}), \qquad \tilde{\boldsymbol{\alpha}}_1 \sim \mathcal{N}(\mathbf{0}, \sigma^2\lambda^{-1}\mathbf{I})$$

This is a ridge regression problem that can be solved using the singular value decomposition of $\breve{\mathbf{B}}_{21} = \mathbf{U}\mathbf{L}\mathbf{V}'$ yielding (see e.g. Golub and Van Loan, 1996)

$$\widehat{\tilde{\boldsymbol{\alpha}}_1} = \mathbf{V}\left(\frac{\mathrm{diag}(\mathbf{L}) \odot \mathbf{U}'\breve{\mathbf{y}}_2}{\mathrm{diag}(\mathbf{L})^2 + \lambda}\right)$$

where $\odot$ stands for element-wise multiplication and the fraction, sum and power are to be interpreted element-wise. The singular value decomposition can also be used to compute the determinant

$$\det(\breve{\mathbf{B}}_{21}'\breve{\mathbf{B}}_{21} + \lambda\mathbf{I}) = \det(\mathbf{L}'\mathbf{L} + \lambda\mathbf{I}) = \prod_i (L_{ii} + \lambda)$$

Up to the computation of the final singular value decomposition, all operations are performed by exploiting the sparse structure of the matrices, which allows the use of standard sparse matrix libraries. It is also worth noting that it is not necessary to compute a full Singular value decomposition (SVD). It is enough to tridiagonalise the matrix $\breve{\mathbf{B}}_{21}$ (see e.g. Eldén, 1977; Wood, 2000). Exploiting this allows to further speed-up the algorithm.

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Appendix G-3: Supporting GWSDAT Reference
Groundwater Spatiotemporal Data Analysis Tool (GWSDAT)

Document Title

Analyzing Groundwater Quality Data and Contamination Plumes with GWSDAT

Citation

Jones, W.R., Spence, M.J., and Bonte, M. (2015). *Analyzing Groundwater Quality Data and Contamination Plumes with GWSDAT*. *Groundwater*, 53(4), 513-514. DOI: 10.1111/gwat.12340.

Purpose of Inclusion

This document is provided as supporting technical literature describing the GroundWater Spatiotemporal Data Analysis Tool (GWSDAT) utilized in this Addendum.

The article summarizes GWSDAT functionality and discusses application of the software for:

- Groundwater monitoring data evaluation;
- Contamination plume characterization;
- Plume stability assessment;
- Spatiotemporal smoothing of groundwater concentration data;
- Evaluation of plume area, plume concentration, and plume mass metrics.

GWSDAT was used in this Addendum to evaluate arsenic occurrence within groundwater, develop plume maps, assess plume evolution, and calculate plume metrics discussed in Sections 5 and 7.

Groundwater

Technology Spotlight/ Yu-Feng Forrest Lin, Technology Editor

Analyzing Groundwater Quality Data and Contamination Plumes with GWSDAT

Wayne R. Jones[1], Michael J. Spence[2], and Matthijs Bonte[2]

The Groundwater Spatiotemporal Data Analysis Tool (GWSDAT) is a user-friendly, open source software tool used to analyze and report trends in groundwater quality monitoring data. GWSDAT is based on the open source statistical programming language R and Microsoft Excel. GWSDAT's primary use is for interrogation and interpretation of groundwater monitoring data derived from contaminated sites. It has specific functionality for analyzing dissolved-phase concentration and light nonaqueous phase liquid (LNAPL) thickness trends and spatiotemporal smoothing to delineate dynamic contamination plumes. The software can handle large data sets with multiple monitoring locations, variable sampling events, and differing chemical constituents. GWSDAT has been used extensively in the assessment of soil and groundwater conditions at numerous assets around the world, including retail and manufacturing sites. The following are key benefits and value-added features of GWSDAT:

- Improved data transparency to design and optimize groundwater monitoring or remediation programs;
- Early identification of new releases, migration pathways, the need for corrective action, and stable or declining trends that may aid in site closure determinations;
- Clarity on the relations between dissolved solute concentrations, LNAPL thicknesses, and groundwater elevation; and
- Rapid interpretation of complex data sets from large monitoring networks (e.g., refineries, terminals)

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doi: 10.1111/gwat.12340

The main functionalities of GWSDAT include trend analyses, data smoothing, spatiotemporal smoothing, and determination of contamination plume characteristics. Groundwater quality observation data for individual monitoring points can be fitted to a linear or log linear regression model, where the significance of a trend can be determined by using the Mann-Kendall approach, which is widely used for trend detection in groundwater and surface water studies (Bouza-Deaño et al. 2008; Wahlin and Grimvall 2010). Groundwater concentration maps are developed by using a spatiotemporal solute concentration smoother derived from a penalized-splines nonparametric regression (Eilers and Marx 1996). The simultaneous statistical smoothing over space and time generally provides a more accurate, more consistent illustration of a contamination plume when compared against contour maps of individual sampling rounds (Cressie and Wikle 2011). In general, the spatiotemporally smoothed plume will be less biased by missing sampling rounds or missing data within sample rounds (Cressie and Wikle 2011). GWSDAT calculates a number of quantitative plume metrics by using the Ricker (2008) method describing the temporal plume behavior based on the contaminant mass of the plumes, average concentration, plume footprint area, and location of the center of mass. All of these are based on a spatial integration of the plume concentrations above a predefined concentration threshold. Further details on the input and output features of GSWDAT can be found in the supporting information (Appendixes S1 and S2). Additional information on each of the methodologies (including descriptions of the R packages used, but excluding the plume metrics, which are added in the latest version of GWSDAT) can be found in Jones et al. (2014).

Software Availability

- Hardware requirements: Standard PC 1 GB RAM or more, 32-bit or 64-bit processor.
- System requirements: Microsoft Windows (XP or later)
- Software requirements: R version 3.0.0 (www.r-project.org) or higher and Microsoft Excel 2003 or higher.

- Program size: 13 MB
- Availability: Free from www.claire.co.uk/GWSDAT and http://www.api.org/GWSDAT

Acknowledgments

This work was funded by Shell Global Solutions (UK) Ltd. The views expressed are those of the authors and may not reflect the policy or position of Royal Dutch Shell plc.

Supporting Information

Additional Supporting Information may be found in the online version of this article:

Appendix S1. GWSDAT Input
Appendix S2. Results and Reporting

References

Bouza-Deaño, R., M. Ternero-Rodríguez, and A.J. Fernández-Espinosa. 2008. Trend study and assessment of surface water quality in the Ebro River (Spain). *Journal of Hydrology* 361, no. 3–4: 227–239.

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Appendix G-4: Supporting GWSDAT Case Studies and Applications
Practical Applications of GWSDAT

Document Title

Groundwater Spatiotemporal Data Analysis Tool: Case Studies, New Features and Future Developments

Citation

Jones, W.R., Rock, L., Wesch, A., Marzusch, E., and Low, M. (2022). *Groundwater Spatiotemporal Data Analysis Tool: Case Studies, New Features and Future Developments*. *Groundwater Monitoring & Remediation*, 42(3), 14-22.

Purpose of Inclusion

This document is provided as supporting technical literature describing practical applications of GWSDAT.

The publication presents multiple groundwater case studies demonstrating use of GWSDAT for:

- Plume characterization;
- Plume stability evaluation;
- Groundwater trend analysis;
- Monitoring network assessment;
- Monitoring network optimization;
- Regulatory decision support.

The paper demonstrates application of GWSDAT to a variety of contaminated groundwater sites and illustrates use of the software as a groundwater plume characterization and monitoring evaluation tool.

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Guest Editorial

Groundwater Spatiotemporal Data Analysis Tool: Case Studies, New Features and Future Developments

by Wayne R. Jones, Luc Rock, Alexandra Wesch, Emanuel Marzusch and Marnie Low

Abstract

Groundwater Spatiotemporal Data Analysis Tool (GWSDAT) is an open-source, user-friendly, software application for the visualization and interpretation of groundwater monitoring data. Since its first release, over 8 years ago, it has become increasingly well established and is now a globally adopted tool. Despite its widespread use, there is little published material considering the application of GWSDAT. The primary purpose of this article is to demonstrate the different benefits of using GWSDAT by considering a cross-section of real case studies. The first case study is an example of using GWSDAT to provide evidence to support a proposal to reduce sampling frequency. The next case study discusses the use of GWSDAT to support the recommendation for site closure. The third case study considers how GWSDAT can be used to identify gaps in a monitoring network. The final case study reports on the application of the, newly introduced, well redundancy analysis feature in GWSDAT. Finally, the road map for future developments in the optimization of monitoring network and the motivation for doing this in a spatiotemporal framework is discussed

Introduction

The GroundWater Spatiotemporal Data Analysis Tool (GWSDAT) is a user-friendly, open-source software tool used to analyze and report trends in standard groundwater quality monitoring data sets. It includes functionality to identify dissolved concentration trends and groundwater elevation fluctuations in individual wells together with the estimation of groundwater flow direction and strength. GWSDAT can also display light nonaqueous phase liquid (LNAPL) thickness trends. The most unique aspect of GWSDAT is the application of a spatiotemporal smoothing model where the spatial and temporal components of the solute concentration data are modeled jointly in a single modeling framework (Jones et al. 2014). This challenges industry convention where the most common practice is to apply a statistical model to separate monitoring events (e.g., Ricker 2008; Gong et al. 2014; Belkhiri et al. 2020) or apply a single spatial model to a data set consisting of multiple time steps within a certain time period (binning) (e.g., Aziz et al. 2003). McLean et al. (2019) demonstrated that the simultaneous statistical smoothing of both spatial and temporal components provides a clearer and more insightful interpretation of the groundwater monitoring site solute characteristics than would otherwise be gleaned from analyzing these two components separately. To the best of our knowledge, there is no other open-source "off-the-shelf" tool that use a spatiotemporal model for concentration data. The application of spatiotemporal modeling in recent literature is mostly applied to groundwater elevation rather than solute concentrations (e.g., Ruybal and Hogue 2019).

It has now been over 8 years since the first version of GWSDAT was made publicly available through the American Petroleum Institute (www.api.org/GWSDAT) and Contaminated Land Applications in Real Environments (www.claire.co.uk/GWSDAT) websites. Since then, it has continued to be maintained and developed as an open-source collaborative project between Shell plc and the University of Glasgow. The second major release included diagnostic tools to estimate plume mass, area, and average concentration through time (Ricker 2008; Jones et al. 2015). The third major release replaced the old graphical user interface with a web-based architecture which paved the way for the development of an online version (www.gwsdat.net). Users, most commonly for computational performance or data security reasons, can still opt for local installation. As well as a host of other updates, the most recent release (version 3.1) includes well redundancy analysis (http://gwsdat.net/gwsdat_manual/). This allows the user to conveniently

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doi: 10.1111/gwmr.12522

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drop a well or a combination of wells from the analysis and investigate the resultant impact on the estimated site plume dynamics. The primary intent of this tool is to understand which wells may have the most influence and provide supporting evidence that the conclusions of the analysis would not be significantly different with the omission of certain wells.

Due to its open-source design, GWSDAT has now become a standard, globally adopted software application in the groundwater monitoring industry. GWSDAT has already been downloaded over 10,000 times and is used by many engineers, environmental regulators, and students around the world. While literature is available on the underlying GWSDAT methodology (Jones et al. 2014; Molinari 2014; Evers et al. 2015; Jones et al. 2015; McLean 2018), little is available on real examples where GWSDAT has been applied. A common feedback from new and more experienced users has been the lack of case studies illustrating the use/applicability of GWSDAT. The main purpose of this article is to address this imbalance and give details on several case studies. The concluding section of this article is dedicated to the future direction of GWSDAT.

Case Studies

GWSDAT provides a variety of options to assess spatial and temporal trends within a groundwater monitoring dataset. It allows to display groundwater flow direction and relative magnitude, generate spatial maps of concentration data at specified time intervals from day, to month, to quarter, to year. Plume diagnostics is another functionality offered, which shows the temporal evolution of plume mass, area, and average concentration over time. The newest functionality added in version 3.10 is well redundancy analysis, which allows the user to take out one or more than one well from the dataset and re-evaluate spatial and temporal trends based on the reduced dataset and compare it to the original complete dataset. Based on a review of 76 sites covering 10 different countries covering the continents of Asia, Africa, and Europe (data not included), it was determined that for the majority (>80%) of the sites GWSDAT is used for concentration trend and plume stability analysis, as expected based on the design of the software. For about 20% of the sites included in the review, GWSDAT was primarily used to assess groundwater flow direction. GWSDAT was also specifically used to support (1) optimization of sampling frequency in about 20% of the cases, (2) site characterization and sampling gap assessment in about 30% of the cases, and (3) optimization of the analytical suite in about 5% of the cases. This snapshot of GWSDAT usage across almost 80 sites from around the world highlights the versatility and applicability of GWSDAT to support groundwater investigations.

To illustrate the functionalities of GWSDAT, four case studies, based on anonymized data, are presented below covering small (e.g., retail) as well as large (e.g., depot) sites (Table 1). All sites used for the case studies are within a non-fractured siliciclastic geological setting. GWSDAT's applicability in fractured geological setting is limited. The tool does not consider preferential flow-pathways, which are critical to understand in a fractured setting. Nevertheless, in a fractured geological setting, GWSDAT can still provide an efficient tool (1) to assess temporal changes and threshold exceedances within individual wells and (2) to generate spatial maps using the scaled circle plot functionality to display observed solute concentrations at the various sampling locations, at the click of a button.

Case Study #1

The objective of using GWSDAT for case study #1 was to demonstrate plume stability with the aim to optimize the sampling frequency interval. Case study #1 is surrounded by residential and commercial land use and is located nearby surface water bodies. In the mid-1990's during a site investigation, an impact with primarily BTEX was observed, which was only partially remediated via soil excavation and replacement. In the early 2000's, groundwater monitoring was implemented, and additional field investigations for further site characterization and adjustments to the groundwater monitoring network were completed in following years. BTEX concentration in groundwater at this site are impacted by fluctuations in the groundwater level, and the source of the contamination is residual contamination in the unsaturated and saturated zones. Data have shown that the plume has migrated beyond the site boundary along the groundwater flow direction (Figure 1).

Groundwater sampling at this site ranged from quarterly to bi-annual in the past. After recent completion of bi-annual sampling at 17 locations, a change in sampling frequency to annual was proposed to the regulator based on observations related to the decrease in the BTEX plume over time. The recommendation of changing the sampling frequency, which was approved by the regulator, was supported through the

Table 1

Summary of case studies

Site #	Small (e.g., retail) or large (e.g., depot) site	Objective of using GWSDAT	Site setting	Geological setting
1	Small	Plume stability—optimization in sampling interval	Residential commercial	
2	Small	Plume reduction—close-out of groundwater monitoring	Residential commercial	*Siliciclastics * non-fractured
3	Small	Plume stability—gap in monitoring network, earlier adoption of tool	Residential commercial recreational	
4	Large	Well redundancy analysis	Industrial	

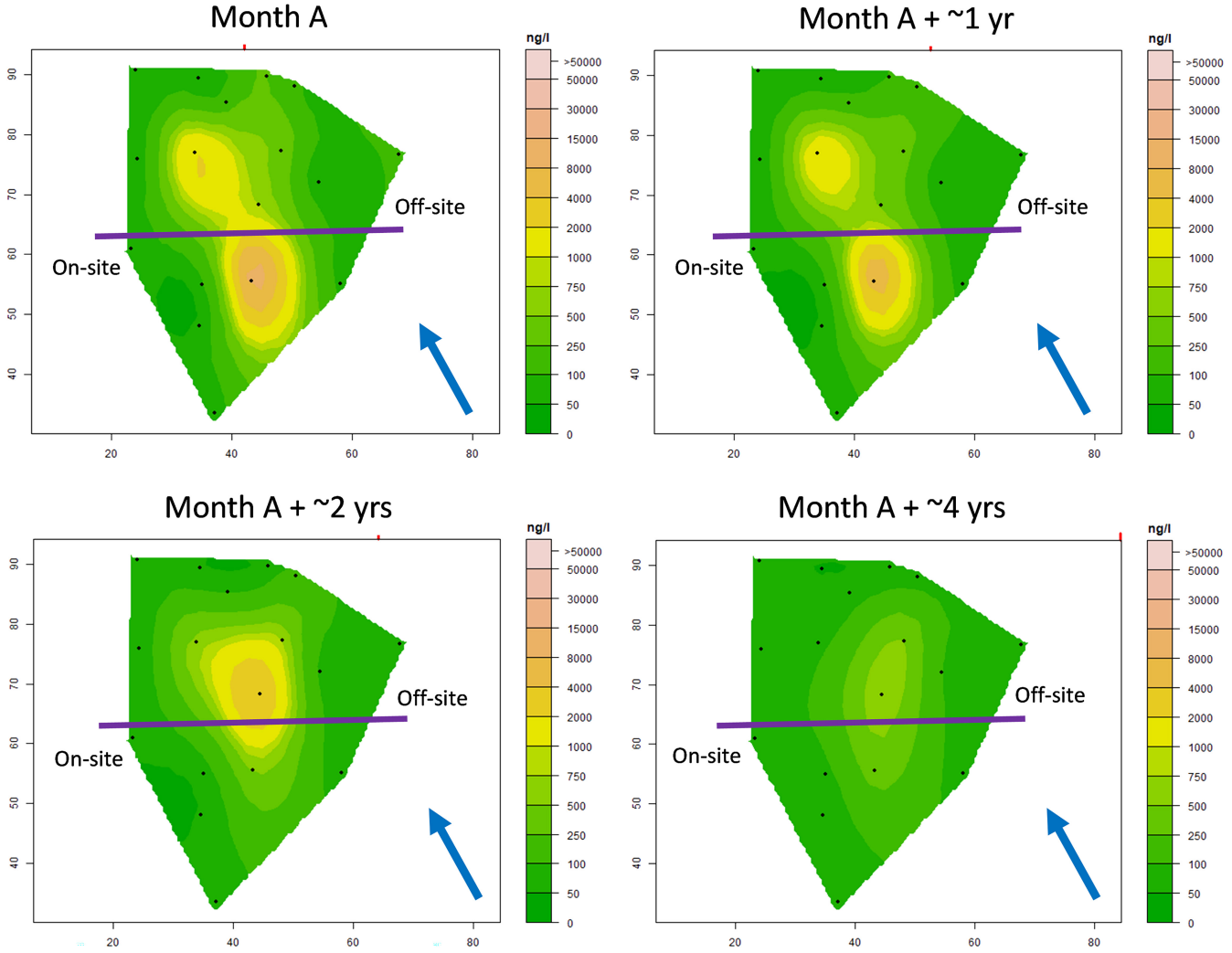


Figure 1. Time slices of the spatiotemporal plots showing historical BTEX plume evolution at case study site #1 over a four-year period. *Notes*: black dots refer to well sampling locations; site boundary shown by purple line; general groundwater flow direction at the site indicated by blue arrow.

use of GWSDAT to showcase the spatial–temporal evolution of the BTEX plume over time (Figure 1). A reduction in BTEX concentrations within the area of investigation can be observed over time. In addition, an assessment of the plume diagnostics functionality offered by GWSDAT also clearly indicated a decreasing benzene plume for a threshold value of 1 µg/L over time (Figure 2).

Case Study #2

Case study #2 falls within the category of a small site. It is in an area with residential and commercial land use, and near a drinking water protection zone. This site has been in operation for over 50 years. In the late 1990's, a site investigation determined an impact at this site by BTEX and TPH. Groundwater sampling was conducted for further site characterization, additionally, soil excavation and replacement were completed at the site. Residual BTEX contamination, however, remained at this site due to safety consideration during the remedial activities. This was documented based on verification samples taken along the excavated surfaces. Consequently, a hydraulic groundwater remediation technology was implemented for a few years. During a site investigation in the 2000's, elevated BTEX concentrations in soil and groundwater were detected, and the regulator requested further groundwater monitoring.

After completion of bi-annual sampling of groundwater at five locations over a 5-year period, it was recommended to stop the groundwater monitoring activities. Note that investigations and monitoring activities at this site go back more than 20 years. GWSDAT (Figure 3) was included in the data analysis and reporting to the regulator to demonstrate that there is no spread of the residual contamination, and that the pathway 'soil to groundwater' is not active. Within GWSDAT, it is possible to graphically represent the spatio-temporal plots using various plot types. In this case, the plot type "conc-terrain circles" was used to represent measured concentrations at each sampled well using scaled circles (Figure 3). This visual representation, obtained at the "click-of-a button" facilitated the communication to the regulator of the decreasing concentrations to below detection limit over time across the study area. After evaluation of the monitoring report, which included data over the last 5 years prior to stoppage in monitoring activities, the regulator approved of the recommendation.

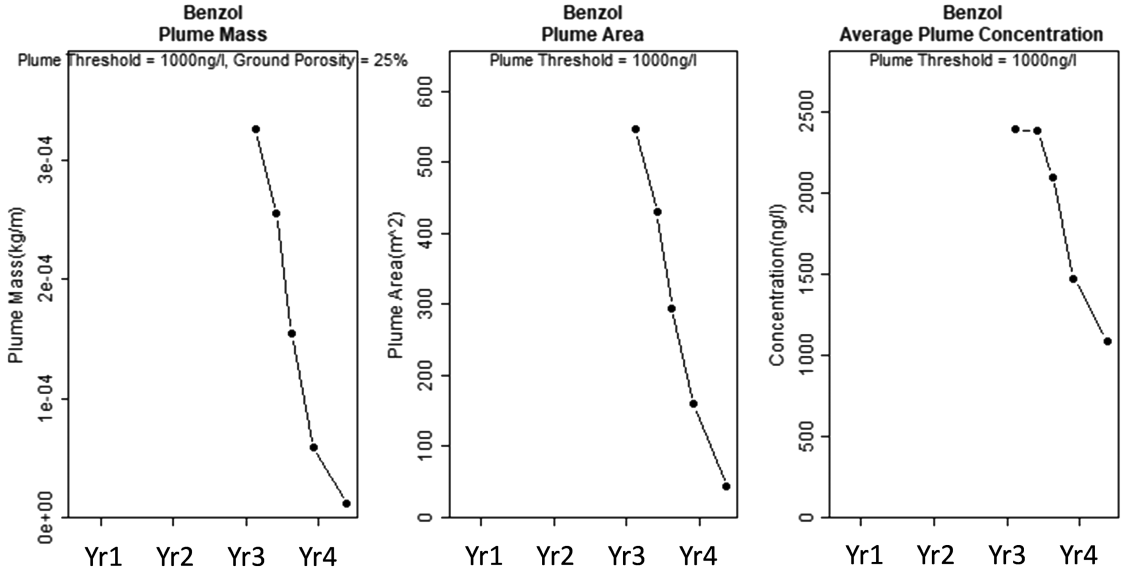


Figure 2. Plume diagnostics for benzene with a chosen threshold value of 1 µg/L at case study #1. Nb: Yr refers to year.

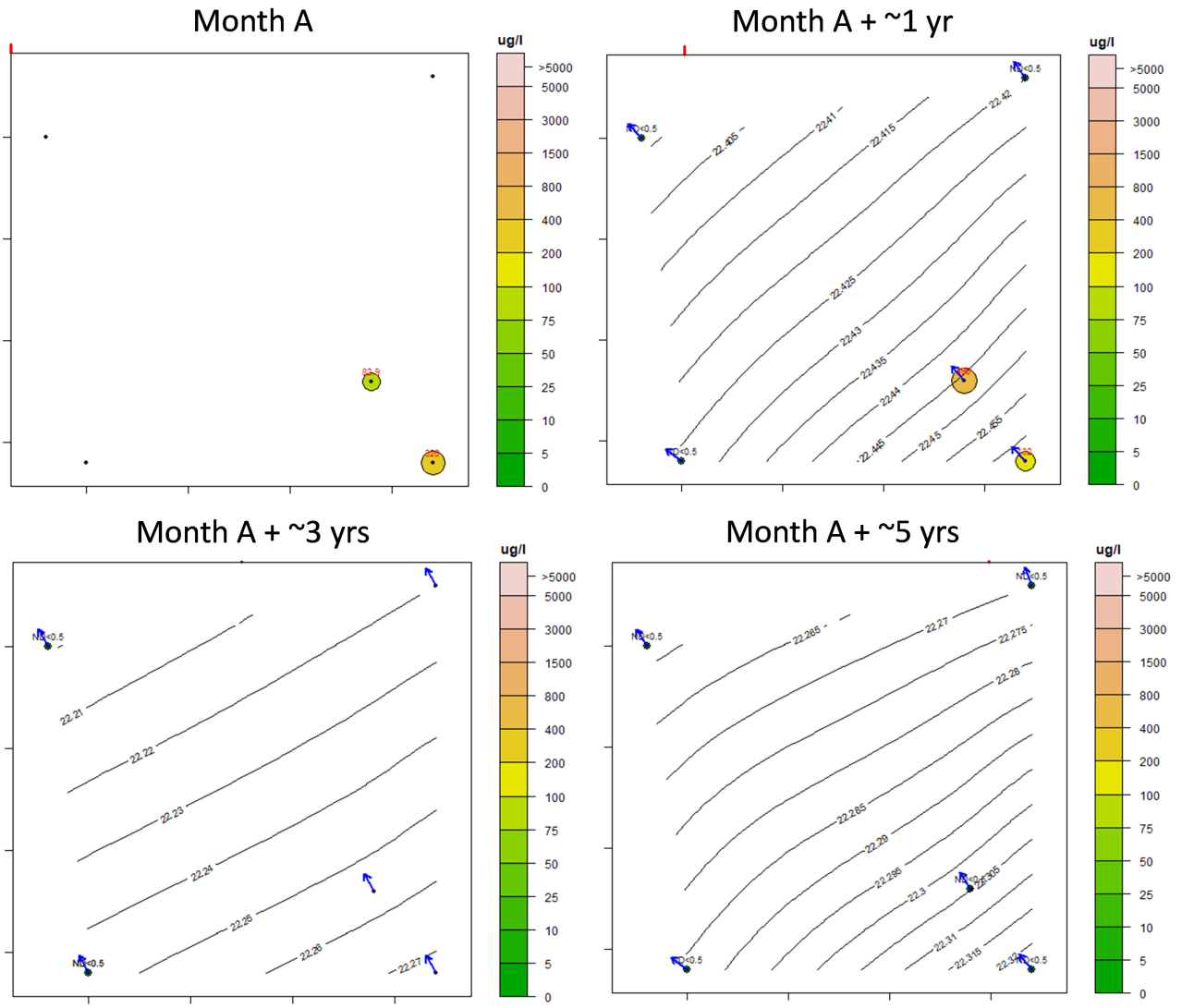


Figure 3. Time slices of the spatiotemporal plot (using plot type conc-terrain circles) showing historical BTEX concentration at case study site #2 over a five-year period. *Notes*: black dots represent well sampling locations; groundwater contours and groundwater flow direction at a specific well location also shown, no data on GW level were collected for data shown under "month A" plot. Size of circles scales with log of measured concentration with concentration range given in color key to right of graph.

Case Study #3

Similar to case studies #1 and #2, case study #3 refers to a small site. This site is surrounded by residential, recreational, and commercial land use. In the 1990's, several soil and groundwater investigations including remedial activities (such as soil excavation and replacement, as well as hydraulic measures) were undertaken at this site. Some residual contamination, however, remained at this site due to safety consideration during the remedial activities, like case studies #1 and #2. In the 2000's, additional site characterization work was completed in addition to installing new groundwater monitoring wells. Since about 2012, a regular groundwater monitoring program continued at this site to assess the evolution of TPH, BTEX, and MTBE concentrations in the monitoring wells. While groundwater monitoring data were collected over several years, GWSDAT was not part of the data interpretation workflow process for many years.

To illustrate the use of GWSDAT at this site for plume stability assessment, data for BTEX are presented covering a period of 8 years of groundwater monitoring data. Note that GWSDAT was used the first time when compiling the annual reporting for the groundwater monitoring events related to years 6 and 7 of the data presented in this case study. During compilation and assessment of the monitoring data from years 6 and 7, which integrated data from previous sampling campaigns, the following observation was made. While existing downstream wells (A, B) had no concentrations above the defined threshold, and were for almost every sampling event below the detection limit (Figure 4), there is a gap in the monitoring network in the downstream direction of groundwater flow. No wells were present in the downstream direction of wells C and D, which had concentrations above the defined threshold, especially well C (Figure 4). Two new wells were drilled, indicated by the red circles on Figure 4, during year 8, about a year after the first integration of GWSDAT in the data evaluation. The regulator agreed with the recommendation for the installation of additional groundwater monitoring wells. A sampling event after the installation of the additional groundwater monitoring wells indicated that BTEX concentrations in these wells were below detection limit (Figure 5). An evaluation of the GWSDAT spatiotemporal plots from years prior to year 8 predicted that concentrations would likely be below detection limit at the two

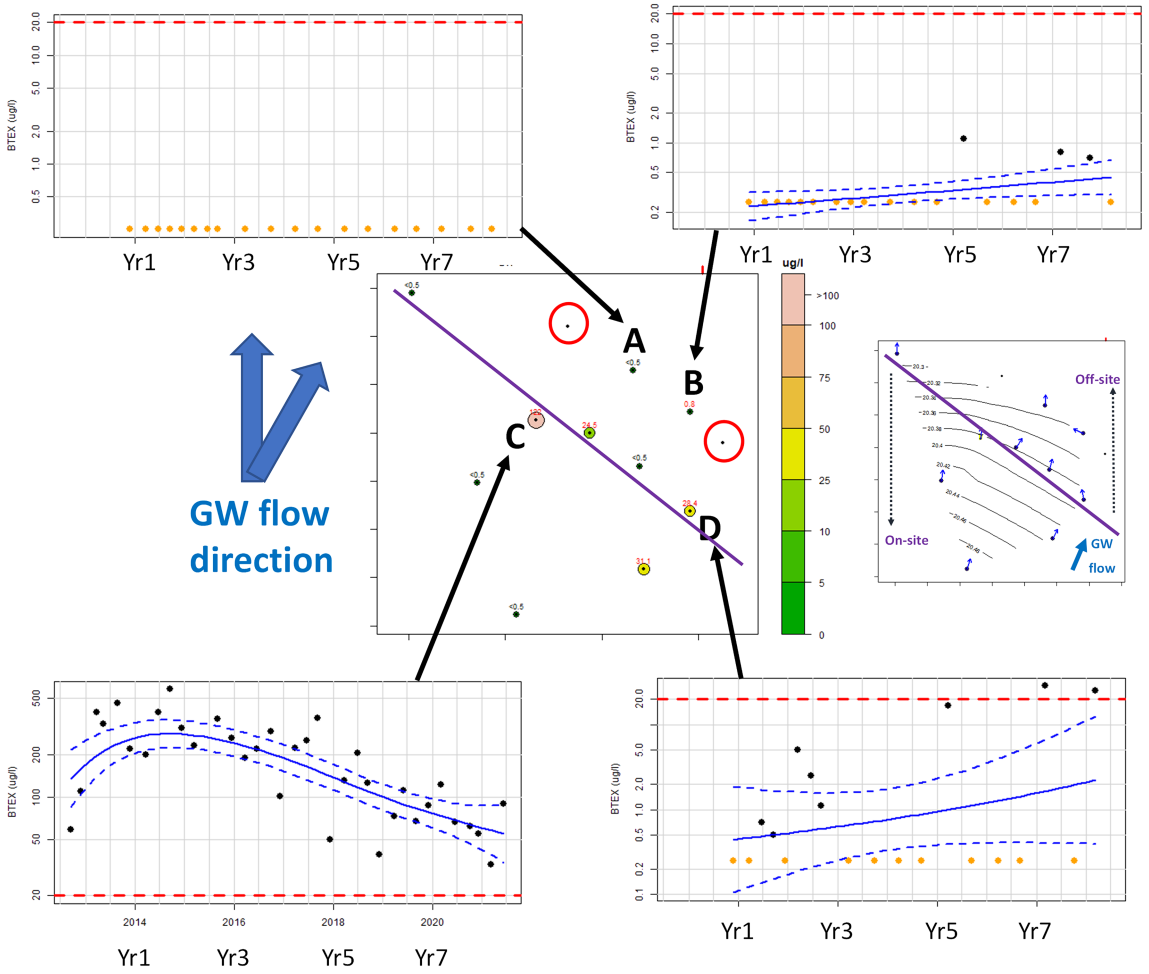


Figure 4. Time slice of spatiotemporal plot (using plot type conc-terrain circles, central plot) showing BTEX concentration including plots showing temporal evolution of concentrations at a select number of wells for case study site #2. Notes, temporal plots: red dashed line refers to user-defined value of threshold concentration value, black dots refer to actual measured concentration values, orange dots refer to non-detect data, blue solid line refers to concentration trend smoother values including upper and lower 95% confidence interval around the estimate (dashed blue line); spatial plot: purple solid line represents site boundary. Insert graph (middle right) shows groundwater contour and flow directions, including site boundary (purple solid line) and location of wells sampled (black dots).

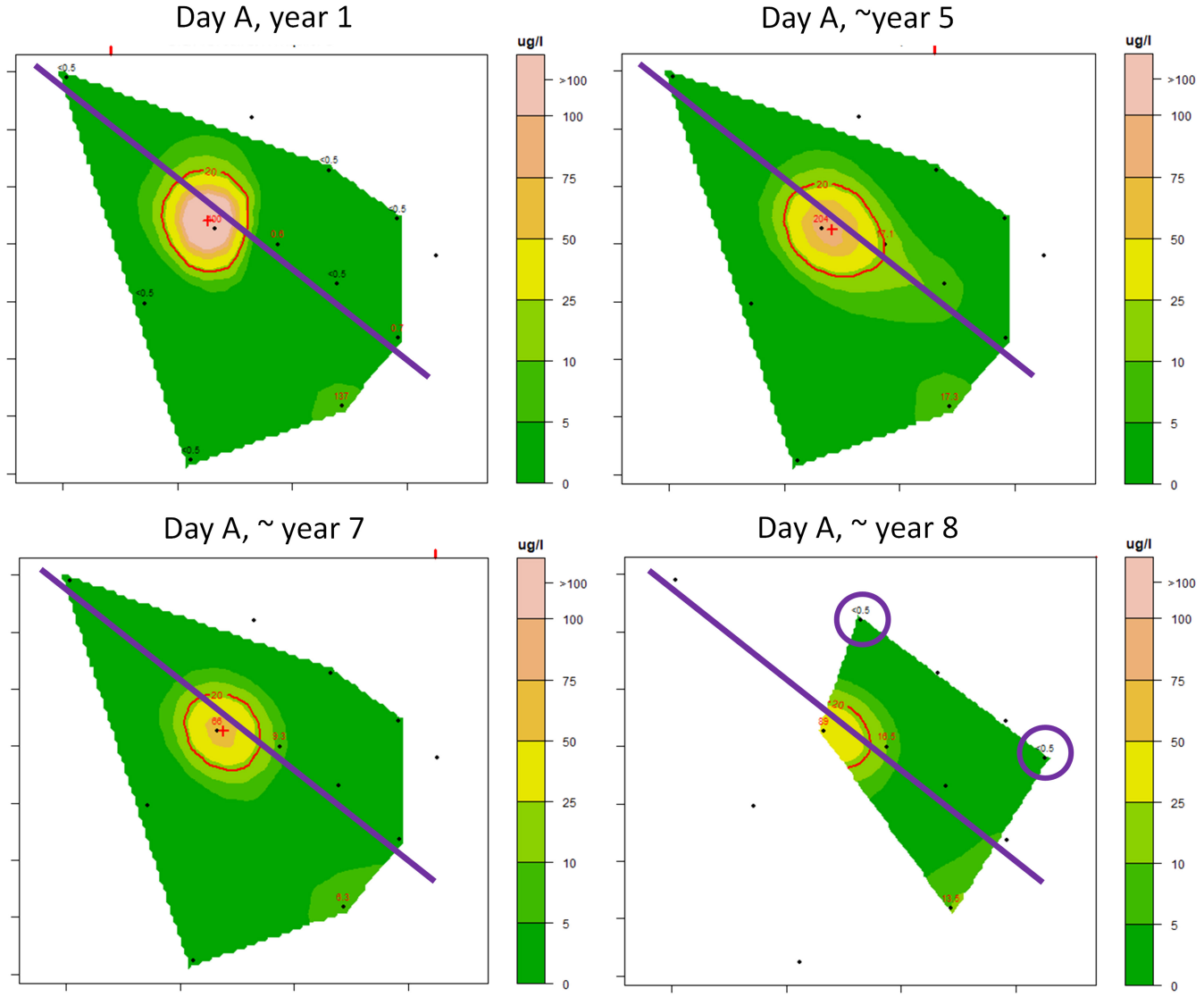


Figure 5. Time slices of the spatiotemporal plots showing historical BTEX plume evolution at case study site #3 over an eight-year period. Notes: red circle refers to predicted plume outline based on a threshold value of 20 µg/L; purple circles indicate location of two new monitoring wells installed in year 8 after evaluation of the monitoring results from years 6 and 7 with integration of monitoring results from previous years; Purple solid line represents site boundary (as per Figure 4 caption). GWSDAT predicted that concentrations in the two new wells will likely be below detection limit when looking at available historic data.

new locations chosen (Figure 5). Hence, this case study showcases that an earlier integration of GWSDAT could potentially have optimized site understanding and decision making around well sampling network and frequency earlier during the lifecycle of this project, which is still on-going. In future groundwater monitoring campaigns, GWSDAT will be an integral part of visualizing and assessing plume evolution/stability over time at this site. For instance, when using the plume diagnostic functionality, a clear trend of a decreasing BTEX plume at this site can be observed over time (Figure 6).

Case Study #4

The last case study presented in this paper relates to the application of the newly introduced well redundancy feature to a large monitoring site. This functionality allows the user to investigate the impact of omitting a well or a combination of wells and investigate the resultant impact on the estimated site plume dynamics. This is performed by independently applying the spatiotemporal smoothing model (Jones et al. 2014) to both the complete and the reduced solute concentration data sets and comparing the results. The site considered is in an industrial area and has been operational for several decades. Over the years, a few impacts to soil and groundwater have occurred, and a large network of groundwater monitoring wells exists at this site (several 10's of wells). To assess the effectiveness of the groundwater monitoring network, GWSDAT's new functionality of well redundancy analysis is being used. Three examples from this site will be presented below to cover the following two scenarios of groundwater well use:

- Scenario 1: Required wells for plume delineation
- Scenario 2: Redundant wells for plume delineation

At this site, groundwater is impacted by various CoPCs (constituents of potential concern). The examples provided here will be based on BTEX. Figure 7 provides an example

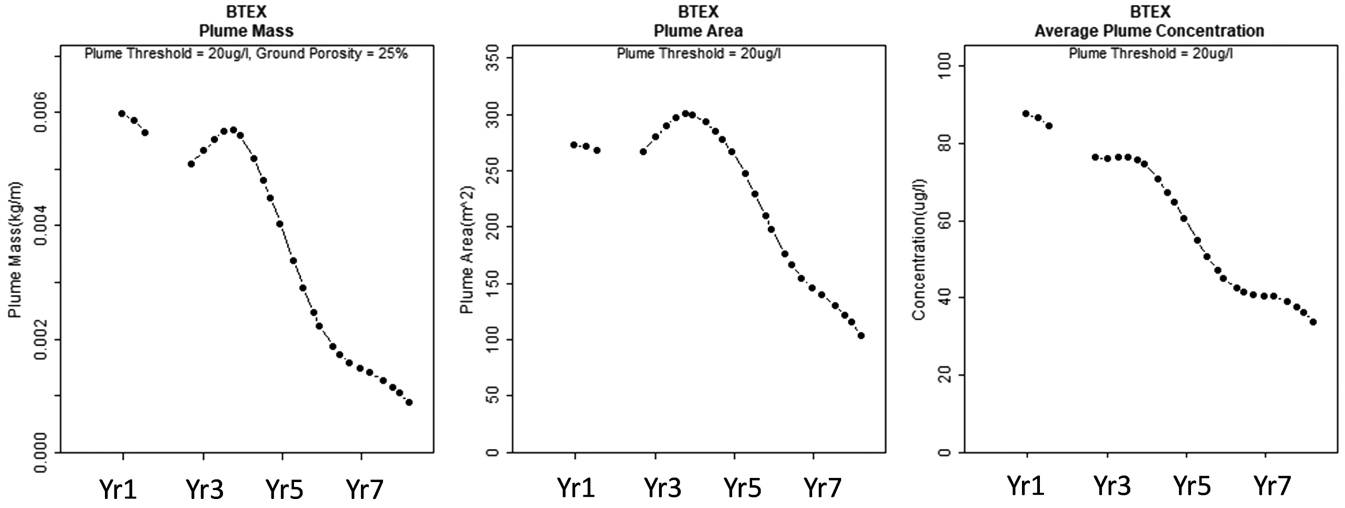


Figure 6. Plume diagnostics for BTEX with a chosen threshold value of 20 µg/L at case study #3. Nb: Yr refers to year.

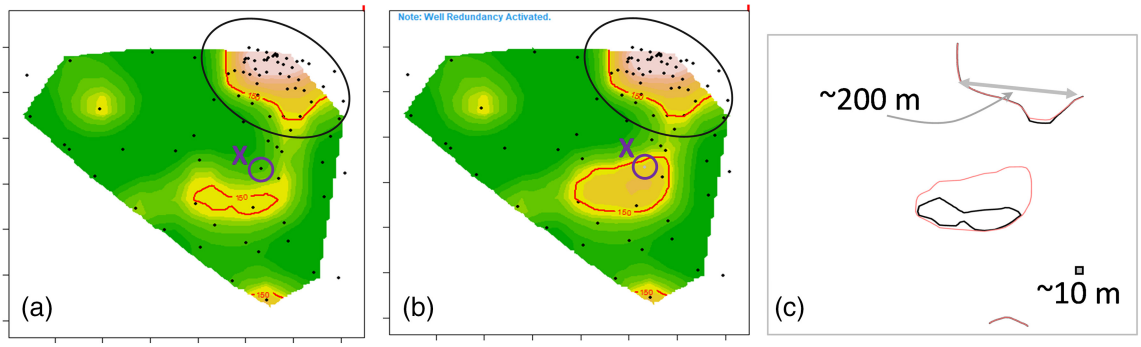


Figure 7. Time slices of a spatiotemporal plot for predicted BTEX plume delineation at case study site #4 with (a) all available data used in analysis and (b) with well redundancy functionality activated (well X removed from analysis). Red outlines show a user-chosen BTEX concentration contour to showcase. (c) Comparison of plume delineation outline (based on chosen concentration contour) for complete dataset (black line) versus reduced dataset (light red line). *Note*: black ellipsoid shows areal extent covered in Figure 8.

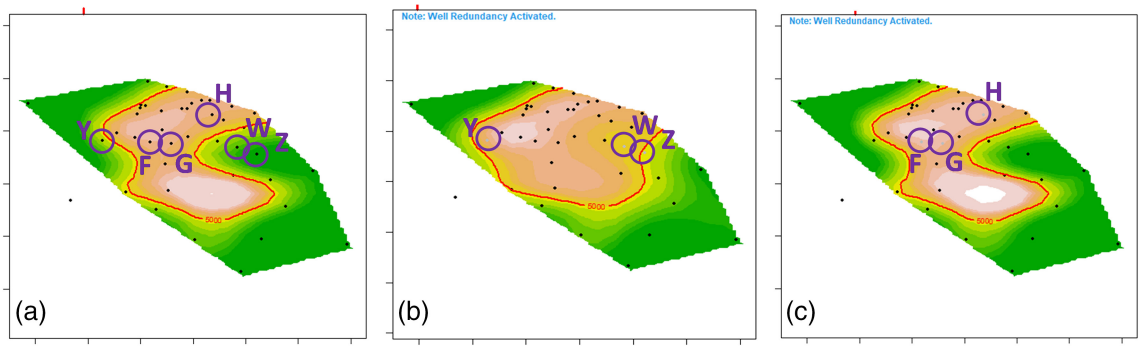


Figure 8. Time slices of a spatiotemporal plot for predicted BTEX plume delineation at case study site #4 with a) all available data used in analysis, and with well redundancy functionality activated for (b) wells Y, W, Z removed and (c) wells F, G, H removed from analysis). *Note*: red outline shows a user-chosen BTEX concentration contour to showcase the impact on plume delineation by removing wells from the data analysis; BTEX concentration below the user-chosen contour are shown in "yellow-green" colors, while concentration above are shown in orange to white colors.

of scenario 1. Figure 7a is a time-slice of the spatiotemporal model illustrating the modeled BTEX plume extent across a part of the site considering all wells available in the dataset. Figure 7b is a time-slice of the spatiotemporal model illustrating the modeled BTEX plume extent across a part of the site with the well redundancy functionality being active. As can be seen, removal of well X highlighted on the Figures 7a and b has a clear impact on the geometry of the plume.

For large sites, one needs to consider that at times there is a need to split the dataset into subsets. This is illustrated in Figure 8, which provides an example for scenario 1 (Figure 8b) and scenario 2 (Figure 8c). Figure 8 covers part of the area

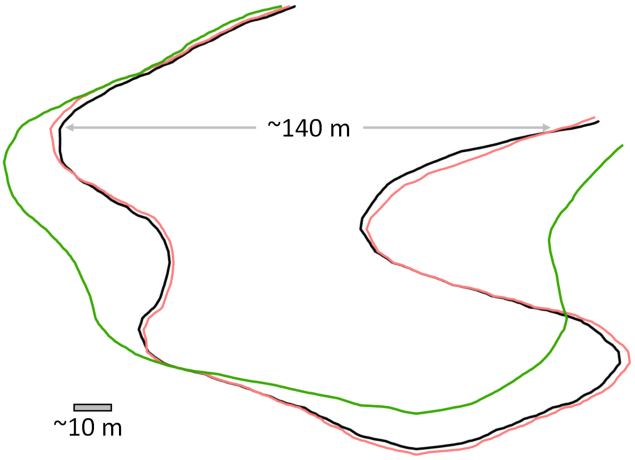


Figure 9. Comparison of plume delineation outline (based on user-chosen BTEX concentration contour) for complete dataset (black line) versus reduced datasets considered in Figure 8b (green line) and Figure 8c (light red line).

included in Figure 7 to get a more detailed understanding of the BTEX plume in that part of the site. A qualitative comparison between Figures 8a–c, highlights that wells Y, W, and Z are important for horizontal plume delineation at this site; while wells F, G, and H could potentially be removed from monitoring activities, as they have little impact on overall understanding of plume geometry (Figure 9).

Future Developments

The major area for future development is the addition of monitoring network optimization tools in GWSDAT. The aim is to support users to develop optimized groundwater monitoring strategies to create datasets that fully support site management decisions and requirements while minimizing exposure, time, and expense associated with collecting and interpreting data. Traditionally, within the environmental monitoring industry, network optimization decision support tools have predominantly been designed from either a spatial (e.g., kriging) or temporal perspective—see, for example, Aziz et al. (2003) and Cameron and Hunter (2002). These tools do not explicitly model the interaction effects across both spatial and temporal components. McLean et al. (2019) demonstrated that spatiotemporal modeling methods result in clearer more accurate plume estimations. This means that significantly smaller sample sizes can be used while retaining estimation accuracy. Hence, this observation together with the body of research in McLean (2018) provides a clear road map for additional integration of spatiotemporal network optimization tools into GWSDAT.

The well redundancy tool released in version 3.1 of GWSDAT, and illustrated in case study #4, is the first step on this journey of expanding GWSDAT's functionality for the application to network optimization. This functionality allows the user to conduct a "with and without" scenario analysis on a user-selected set of wells. Future versions will offer users more assistance by providing a list of wells ordered by an analytical assessment of which may be the most suitable for the omission. Going further forward, it is planned to complement well redundancy analysis with functionality to investigate the benefit of additional wells. This will involve optimally augmenting the existing network with new well locations such as to minimize the uncertainty in monitoring goals, for example, estimated plume extent, area, and mass.

The remaining piece of the road map to be implemented is decision support tools for efficient monitoring well sampling schemes which maximize information extraction while minimizing sampling effort. Once again, the literature in this area is primarily concerned with spatial design arguments, for example, Diggle and Lophaven (2006). The adoption of sampling design principles that accommodate the spatiotemporal nature of the data into GWSDAT will lead to even greater information extraction efficiency than that described in McLean et al. (2019). One such intuitive example of a spatiotemporal design is to sample, for instance, half of the wells spread out across the site for good spatial coverage in one sampling round and to sample the complement of these in the next sampling round. Such a design coupled with a spatiotemporal model would borrow and pool information from the combination of most recently sampled locations, both spatially and temporally, leading to good accuracy with reduced sampling effort.

Shell plc and the University of Glasgow continue to collaborate on developing new and innovative methodologies in the field of monitoring network optimization. Some aspects of this cutting-edge area of research are highly technical and consequently may not be immediately intuitive to understand as compared to, say, leave-well-out redundancy arguments. These techniques could therefore potentially be perceived as "black-box" in nature and lead to a lack of trust and consequently a lack of adoption by practitioners and regulators. To mitigate this risk the developers of GWSDAT plan to continue to work in an open manner and publish the underlying methodologies in peer-reviewed journals while always making the code open-source and completely transparent.

Acknowledgments

The authors gratefully acknowledge support from M. Adolphs, N. Arsad, B. Haring, W. Al-Ashaq, S. Teong, T-O Tai, and M. van Zutphen to gather information for this manuscript. The views expressed are those of the authors and may not reflect the policy or position of Shell plc.

Disclosure

The authors declare no competing interests.

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