BIG RIVERS ELECTRIC CORPORATION

2025 Annual Groundwater Monitoring and Corrective Action Report

D.B. Wilson Generating Station – Phase II CCR Landfill

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Contents

Executive Summary i

1.0 Introduction 1-1
- 1.1 Purpose and Scope 1-1
- 1.2 Site Description 1-1
- 1.3 CCR Rule Program Monitoring Well System 1-1
  - 1.3.1 Compliance Monitoring Wells 1-1
  - 1.3.2 Characterization Monitoring Wells 1-2

2.0 Groundwater Monitoring Activities and Results 2-1
- 2.1 Description of the Groundwater Monitoring Program 2-1
- 2.2 Characterization Monitoring Well Installation Activities 2-2
- 2.3 Groundwater Sampling Activities 2-3

3.0 Data Evaluation 3-1
- 3.1 Groundwater Flow 3-1
- 3.2 Estimated Vertical Gradient 3-1
- 3.3 Sampling Results 3-1
- 3.4 Statistical Evaluation 3-1
- 3.5 Conclusion 3-3

4.0 Certifications and Notifications to the Facility Operating Record 4-1

5.0 Key Activities Planned for 2026 5-1
- 5.1 Groundwater Monitoring 5-1
- 5.2 Remedy Selection 5-1

6.0 References 6-1

Figures

Tables

Appendix A – 2025 Monitoring Well Construction Progress Report

Appendix B – Field Sampling Forms

Appendix C – Analytical Summary Tables

Appendix D – Laboratory Analytical Reports

Appendix E – Data Validation

Appendix F – Statistical Evaluation

Figures

1. Site Location Map
2. Groundwater Monitoring Network – Federal CCR Rule Program
3. Groundwater Contour Map – April 28, 2025
4. Groundwater Contour Map – September 22, 2025

Tables

1. Summary of Monitoring Well Construction Details
2. Monitoring Well Network Groundwater Elevations
3. Estimated Vertical Hydraulic Gradients

List of Abbreviations

Abbreviation	Term/Phrase/Name
ACM	Assessment of Corrective Measures
BREC	Big Rivers Electric Corporation
CCR	Coal Combustion Residuals
CCR Rule	Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals (CCR) from Electric Utilities; Final Rule, dated April 17, 2015, amended July 30, 2018, and on September 28, 2020
CFR	Code of Federal Regulations
CiP	closure in place
GWPS	groundwater protection standard
IC	institutional control
KAR	Kentucky Administrative Regulation
KDWM	Kentucky Department for Environmental Protection, Division of Waste Management
LCL	lower confidence limit
Report	*2025 Annual Groundwater Monitoring and Corrective Action Report*
SSI	statistically significant increase
SSL	statistically significant level
TDS	total dissolved solids
Unit	Wilson Phase II Landfill
USEPA	United States Environmental Protection Agency
Wilson Station/Site	D.B. Wilson Generating Station located in Ohio County, Kentucky

Executive Summary

This *2025 Annual Groundwater Monitoring and Corrective Action Report* (Report) summarizes the groundwater monitoring and corrective action activities completed between January 1 and December 31, 2025, at the Big Rivers Electric Corporation (BREC) D.B. Wilson Generating Station's (Wilson Station/Site) Phase II Landfill (the Unit) as required by 40 Code of Federal Regulations (CFR) §257.90(e) of the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule. A Site location map illustrating the location of the Unit is presented as **Figure 1**. The program monitoring networks for the Unit, including supporting characterization and water level only monitoring wells are summarized in **Table 1** and illustrated on **Figure 2**.

Results of baseline groundwater monitoring performed in 2016 and 2017 indicated that the Unit would require initiation of assessment monitoring under the CCR Rule, as most of the Appendix III detection monitoring constituents, excluding fluoride and pH, had downgradient statistically significant increases (SSIs) over background. On February 5, 2018, BREC posted a formal notification on their publicly accessible CCR reporting website that the Unit would transition from baseline detection to an assessment monitoring program. On October 26, 2018, BREC posted a formal notification on their publicly accessible CCR reporting website that one or more Appendix IV constituent for assessment monitoring was detected at statistically significant levels (SSLs) above the established groundwater protection standards (GWPS) as required by 40 CFR §257.107(h)(6). On January 14, 2019, BREC posted a formal notification on their publicly accessible CCR reporting website that the Wilson Phase II Landfill would initiate an Assessment of Corrective Measures (ACM) per 40 CFR §257.95(g)(5), fulfilling the requirement of 40 CFR §257.107(h)(7). In June 2019, BREC finalized the ACM in which applicable remedial technologies to address cobalt impacts in groundwater were identified pursuant to Tile 40 CFR §257.96. A report summarizing the results of the ACM (AECOM, 2019b) was posted to BREC's publicly accessible CCR reporting website on July 10, 2019. A public meeting has not been held to date to discuss the results of the ACM for the Wilson Phase II Landfill. BREC is working to establish a comprehensive list of data collection needs to proceed forward with remedy evaluation for the Unit and anticipates providing additional data in future semi-annual remedy selection progress reports.

Groundwater analytical data collected during assessment monitoring at the Unit indicated that Appendix IV constituents were detected in downgradient compliance monitoring wells at SSIs over background. Per the CCR Rule requirements, GWPSs for each Appendix IV constituent were developed and the data were statistically tested for whether the concentrations represented SSLs above their respective GWPSs. SSLs identified at monitoring wells in the 2025 annual reporting period are as follows:

- Cobalt: MW-10.

Other activities and conditions for the 2025 annual reporting period include:

- Semi-annual assessment groundwater monitoring events were performed in April and September 2025;
- Installation of additional characterization monitoring wells in September 2025; and
- No program transitions (detection to assessment or vice versa) were triggered; the Unit remains in assessment monitoring.

Anticipated activities for the next 2026 annual reporting period include:

- Completion of two semi-annual assessment groundwater monitoring events; and
- Progress towards selection of a remedy for the Unit.

1.0 Introduction

At the request of BREC, Burns & McDonnell prepared this Report for the BREC Wilson Station Unit, located in Ohio County, Kentucky. This Report was prepared in accordance with §257.90(e) of 40 CFR Part 257 and 261 of the USEPA CCR Rule. The CCR Rule was established to regulate the disposal of CCR produced by electricity generating facilities (USEPA, 2015; 2018; 2020a; and 2020b).

This Report summarizes all activities related to the CCR Rule groundwater monitoring program at the Unit in 2025. The following sections present a Site background summary, a discussion of groundwater monitoring activities performed, a summary of laboratory results, statistical evaluation findings, and conclusions regarding uppermost groundwater conditions in the aquifer system subject to monitoring under the CCR Rule.

1.1 Purpose and Scope

This Report has been prepared per 40 CFR §257.90(e) to document the status of the groundwater monitoring and corrective action program at the Unit, summarize key actions completed, describe any problems encountered, discuss any actions to resolve the problems, and provide key activities for the upcoming year. This document is the ninth annual report for the Unit.

1.2 Site Description

The Wilson Phase II Landfill is located in Ohio County approximately 5 miles northwest of the town of Centertown, Kentucky (**Figure 1**). The Unit is located northwest and adjacent to Wilson Station. The current Wilson Phase II Landfill footprint is approximately 92 acres (**Figure 2**). Adjacent to the Wilson Phase II Landfill to the east is the closed Wilson Station Phase I Landfill, which is currently being regulated by Special Waste permit by the Kentucky Department for Environmental Protection, Division of Waste Management (KDWM) under Title 401 Kentucky Administrative Regulation (KAR) Section 45. The Wilson Phase II Landfill is currently active and raised above adjacent ground to a maximum elevation of approximately 532 feet above mean sea level. The original ground surface within the landfill footprint was an irregular post coal mining reclaimed surface.

1.3 CCR Rule Program Monitoring Well System

1.3.1 Compliance Monitoring Wells

Prior to the implementation of the CCR Rule, a groundwater monitoring well network was already present at the Unit in compliance with the requirements of the facility's operating permit. The existing monitoring wells are located along the perimeter of the permitted footprint for the Wilson Phase II Landfill and meet the CCR Rule requirements that downgradient monitoring wells must be located at the waste boundary of the (active) CCR unit, or as close as practicable.

Under the requirements stated in the operating permit, five (5) monitoring wells (MW-5, MW-6, MW-7, MW-8, and MW-10) were installed adjacent to the Wilson Phase II Landfill to determine the general direction of groundwater movement and to monitor groundwater at the Site. Monitoring Well MW-8 is located north of the landfill and is considered upgradient. Monitoring Wells MW-5, MW-6 (both west of the landfill), MW-7 (southwest of the landfill), and MW-10 (south of the landfill) are considered downgradient compliance

monitoring wells located near the waste boundary of the Unit. As-built construction details of each monitoring well are summarized in **Table 1**. The locations of the groundwater monitoring wells are shown on **Figure 2**. Each monitoring well has a dedicated bladder pump and tubing system installed for groundwater sampling purposes.

As stated in the CCR monitoring well network certification, the stratigraphic interval considered as the most prominent water-transmitting zone within and adjacent to the Wilson Station is material identified as reclaimed surface coal mining spoil material comprised of disrupted consolidated sandstone and shale of the Carbondale Formation. The United States Geological Survey Geologic Map of the Equality Quadrangle (Goudarzi, G.H., 1969) describes underlying Carbondale Formation bedrock as "Sandstone, siltstone, shale, coal and underclay: Sandstone, light- to medium-gray, fine-grained, massive, micaceous, locally grades into thin-bedded siltstone. Siltstone, light- to medium-gray and yellowish-brown. Shale, light- to dark-gray and brown, locally carbonaceous, in places calcareous and fossiliferous; contains sideritic nodules and lenses. Number 9 coal bed at base of the Unit averages about 4 feet thick." For purposes of compliance with the CCR Rule groundwater monitoring requirements, this disrupted sequence comprising the unconsolidated mine spoil is considered the uppermost aquifer underlying the Wilson Phase II Landfill.

Details about the monitoring network are presented in the *Monitoring Well Completion Report, D.B. Wilson Special Waste Landfill, Solid Waste Permit Number 092-00004, Ohio County, Kentucky* (Associated Engineers, Inc., April 13, 2009). Monitoring Wells MW-1, MW-2, MW-3, MW-4, P-9, and P-11 are included in the CCR program as "water level only" monitoring points.

No new CCR Rule compliance monitoring wells were installed in 2025.

1.3.2 Characterization Monitoring Wells

To address the CCR Rule assessment monitoring program requirements of 40 CFR §257.95(g)(1) at the Phase II Landfill (permitted as a CCR Landfill), five (5) characterization monitoring wells (MW-102, MW-104, MW-105, MW-110, and MW-4D) were installed in October 2018 for the characterization of groundwater at locations indicated on **Figure 2**. A *Monitoring Well Construction Progress Report* (AECOM, 2019c), included as Appendix B in the *2019 Annual Groundwater Monitoring and Corrective Action Report* (AECOM, 2020), was prepared to summarize the monitoring well installation activities and submitted to the KDWM.

In accordance with the KDWM-approved *Groundwater Assessment Plan* (Burns & McDonnell, 2021) to address the KDWM requirements of 401 KAR Chapter 45 Special Waste Section 160 (KAR 45:160) at the Phase I Landfill (permitted as a Special Waste Landfill), six (6) new characterization monitoring wells (MW-10D, MW-105R [replaced abandoned MW-105], and MW-111 through MW-114) in December 2021 through January 2022 for the characterization of groundwater at locations indicated on **Figure 2**. A *Monitoring Well Construction Progress Report* (Burns & McDonnell, 2022a), included as Appendix B in the *2022 Annual Groundwater Monitoring and Corrective Action Report* (Burns & McDonnell, 2023a), was prepared to summarize the well installation activities and submitted to the KDWM.

Ten new characterization monitoring wells were installed in 2025 and is discussed further in **Section 2.3**. Evaluation of these newly installed groundwater monitoring wells for flow direction relative to the established monitoring network will be conducted once static water level conditions are achieved. This assessment will help determine whether each new monitoring well serves a characterization purpose or is intended solely for water level monitoring.

As-built monitoring well construction details and location of each characterization well are summarized in **Table 1** and illustrated on **Figure 2**, respectively. The characterization monitoring wells, located at cross-gradient and downgradient positions east, southeast, south, southwest, and west of the Unit (away from the CCR waste boundary), support evaluation of groundwater conditions. These monitoring wells provide data the existence, quality, quantity, areal extent, and depth of groundwater degradation, as well as the rate and direction of CCR contaminant migration. The data generated from the ongoing groundwater assessment under 401 KAR 45:160 (Phase I Special Waste Landfill) and 40 CFR §257.95 (Wilson Phase II Landfill) are essential for developing a comprehensive conceptual site model. This model is necessary to determine the appropriate remedy for groundwater impacts associated with the Wilson Phase II Landfill.

2.0 Groundwater Monitoring Activities and Results

2.1 Description of the Groundwater Monitoring Program

Results of baseline groundwater monitoring performed in 2016 and 2017 indicated that the Unit would require initiation of assessment monitoring under the CCR Rule, as most of the Appendix III detection monitoring constituents, excluding fluoride and pH, had downgradient SSIs over background. On February 5, 2018, BREC posted a formal notification on their publicly accessible CCR reporting website that the Unit would transition from baseline/detection to an assessment monitoring program, fulfilling the requirement of 40 CFR §257.107(h)(4). On October 26, 2018, BREC posted a formal notification on their publicly accessible CCR reporting website that one or more Appendix IV constituents for assessment monitoring was detected at SSLs above the established GWPS as required by 40 CFR §257.107(h)(6). On January 14, 2019, BREC posted a formal notification on their publicly accessible CCR reporting website that the Wilson Phase II Landfill would initiate an ACM per 40 CFR §257.95(g)(5), fulfilling the requirement of 40 CFR §257.107(h)(7). In June 2019, BREC finalized the ACM in which applicable remedial technologies to address Appendix IV cobalt impacts in groundwater were identified pursuant to Tile 40 CFR §257.96. The ACM (AECOM, 2019b) was posted to BREC's publicly accessible CCR reporting website on July 10, 2019. A public meeting has not been held to date to discuss the results of the ACM for the Wilson Phase II Landfill. BREC is working to establish a comprehensive list of data collection needs to proceed forward with remedy evaluation for the Unit and anticipates providing additional data in future semi-annual remedy selection progress reports.

In 2025, the Unit was in assessment monitoring status. Two groundwater sampling events were conducted at the Unit in 2025, fulfilling the assessment monitoring and characterization sampling requirements of the CCR Rule. The following table summarizes the dates of the sampling events and the monitoring wells included in each event.

Groundwater Monitoring Program Summary

Event Type	Sampling Event	Dates	Monitoring Wells Sampled
Assessment	24	April 28-29, 2025	Background Monitoring Well (Upgradient) MW8 Downgradient Monitoring Wells MW-5, MW-6, MW-7, and MW-10
Characterization	14	April 28-29, 2025	Characterization Monitoring Wells MW-4D, MW-10D, MW-102, MW-104, MW-105R, MW-110, MW-111, MW-112, MW-113, and MW-114
Assessment	25	September 24, 2025	Background Monitoring Well (Upgradient) MW8 Downgradient Monitoring Well MW-5, MW-6, MW-7, and MW-10

Event Type	Sampling Event	Dates	Monitoring Wells Sampled
Characterization	15	September 23-24, 2025	Characterization Monitoring Well Wells MW-4D, MW-10D, MW-102, MW-104, MW-105R, MW-110, MW-111, MW-112, MW-113, and MW-114

Following the September 2025 sampling event, a total of 25 assessment monitoring events and 15 characterization monitoring events have been performed at Wilson Phase II Landfill since 2016. These events were reported on in the following:

- *2016-2017 Annual Groundwater Monitoring and Corrective Action Report* (AECOM, 2018);
- *2018 Annual Groundwater Monitoring and Corrective Action Report* (AECOM, 2019a);
- *Assessment of Corrective Measures under the CCR Rule* (AECOM, 2019b);
- *2019 Annual Groundwater Monitoring and Corrective Action Report* (AECOM, 2020);
- *2020 Annual Groundwater Monitoring and Corrective Action Report* (AECOM, 2021);
- *2021 Annual Groundwater Monitoring and Corrective Action Report* (AECOM, 2022);
- *2022 Annual Groundwater Monitoring and Corrective Action Report* (Burns & McDonnell, 2023a);
- *2023 Annual Groundwater Monitoring and Corrective Action Report* (Burns & McDonnell, 2024); and
- *2024 Annual Groundwater Monitoring and Corrective Action Report* (Burns & McDonnell, 2025a).

Monitoring wells were sampled following low-flow sampling techniques developed and incorporated into current operating permits, which are maintained within the operating record at the Wilson Station.

2.2 Characterization Monitoring Well Installation Activities

In July 2024, the KDWM recommended installing additional groundwater monitoring wells to enhance characterization of groundwater flow in areas south and southwest of the Phase I Special Waste Landfill, helping support ongoing groundwater assessment in compliance with 401 KAR 45:160. In September 2025 the KDWM conditionally approved a *Monitoring Well Installation Work Plan* (Burns & McDonnell, 2025d) that was implemented in September 2025 with the installation of ten (10) new characterization monitoring wells, comprising of two monitoring well pairs (MW-115/115A and MW-119/119A) and six individual monitoring wells (MW-105B, MW-110A, MW-116, MW-117, MW-118, and MW-119). The *Monitoring Well Construction Progress Report* (Burns & McDonnell, 2025e), included herein as **Appendix A**, documents the monitoring well installation activities and presents a map showing the locations of the new characterization monitoring wells along with the as-built details for each one. A summary of the monitoring well construction details of these new characterization monitoring wells is provided in **Table 1**.

No groundwater samples were collected from the new characterization monitoring wells. Once static water levels stabilize, the monitoring wells will be evaluated to determine groundwater flow direction relative to the established monitoring network. This evaluation will clarify whether each new monitoring well will function as a characterization monitoring well or be used only for water level monitoring. Monitoring wells selected for additional characterization will be incorporated into the existing sampling program and sampled during the first half of the 2026 semi-annual monitoring event under 40 CFR 257 (Wilson Phase II Landfill), using the analytical parameters specified in Appendices III and IV of 40 CFR 257. Wells designated solely for water-level monitoring will be included in the water-level gauging program and will not be sampled. Groundwater results from the new characterization wells will be presented in the 2026 Annual Groundwater

Monitoring and Corrective Action Report. This data will play an essential role in developing a comprehensive groundwater conceptual site model, including updates to the hydrostratigraphic framework, groundwater flow and contaminant transport evaluation, and geochemical and redox characterization. These refinements will support the evaluation and comparison of future groundwater remedy alternatives for the impacts associated with the Phase II landfill.

2.3 Groundwater Sampling Activities

In 2025, two assessment monitoring events and two characterization sampling events were conducted at the Unit as part of assessment monitoring and characterization sampling activities. The two characterization sampling events coincided with the semi-annual assessment monitoring program schedule under 40 CFR §257.95 (Wilson Phase II Landfill). These semi-annual groundwater sampling events were performed by BREC personnel on April 28 and 29, 2025, and September 23 and 24, 2025.

The depth to groundwater was gauged at each of the monitoring wells during the April 2025 and September 2025 sampling events using a decontaminated water level meter. The measured depth to groundwater level data and the calculated groundwater elevations during the 2025 monitoring events are summarized in **Table 2**.

Prior to groundwater sample collection, monitoring wells were purged using dedicated bladder pumps and low flow purging/sampling techniques. Monitoring wells were purged until stabilization criteria had been met in accordance with the procedures in the current operating permit. Once groundwater parameters were stabilized, the monitoring wells were sampled. No filtration of samples was conducted in the field or during laboratory procedures. Monitoring well sampling forms for each of the groundwater monitoring events are included in **Appendix B**. Groundwater samples collected during the 2025 sampling events were submitted to Pace Analytical Services, LLC in Madisonville, Kentucky for laboratory analysis for Appendix III and Appendix IV parameters, in accordance with 40 CFR §257.95(b). Laboratory analyses were performed in accordance with USEPA-approved methods. Groundwater results for compliance and characterization monitoring wells are presented in **Section 4.0** of this Report.

3.0 Data Evaluation

3.1 Groundwater Flow

The measured depth to groundwater level data and the calculated groundwater elevations during the 2025 monitoring events are summarized in **Table 2**. The calculated groundwater elevations during April and September 2025 were used to construct a piezometric surface map to illustrate groundwater flow conditions for the uppermost aquifer on **Figures 3** and **4**, respectively. These data are representative of general conditions at the Unit. Overall groundwater flow beneath the footprint of the Wilson Phase II Landfill is to the south-southeast and southwest (**Figures 3** and **4**). The predominant groundwater flow direction historically observed at the Unit is to the south-southeast and southwest. Groundwater flow beneath the Wilson Phase II Landfill is influenced by extensive historical coal strip-mining and the physical extent of mine spoil deposits. These mine spoil deposits are laterally limited by the remaining bedrock high walls left undisturbed south of the Unit along the north side of State Route 85 and beyond (west of) the western edge of the Wilson Phase II Landfill. Outside the footprint of the Unit, the groundwater flow beneath the Site includes a western component along the eastern portion of the Site, a localized southern component in the vicinity of bedrock Monitoring Wells MW-104 and MW-110 and localized northern components in the vicinity of bedrock Monitoring Wells MW-105R and MW-113.

3.2 Estimated Vertical Gradient

Reviewing comparisons of hydrologic data at paired/nested wells allows an evaluation of estimated vertical hydraulic gradients. The nested well clusters at the Site include two well pairs, Monitoring Wells MW-4/4D and MW-10/10D.

The estimated vertical groundwater gradient is calculated by the following equation:

$$\frac{\textbf{Water Elevation (shallow well) – Water Elevation (deep well)}}{\textbf{Screen Midpoint Elevation of Screen (shallow well) – Screen Midpoint Elevation of Screen (deep well)}}$$

* A positive gradient identifies a downward gradient, while a negative gradient identifies an upward gradient.

The estimated vertical gradients ranged from -0.00394 upward (MW-4/4D; April 2025) to -0.00056 upward (MW-10/10D; September 2025). The estimated vertical gradients are summarized in **Table 3**.

3.3 Sampling Results

Two assessment monitoring and characterization sampling events were completed in April and September/October 2025. Results from these sampling events are summarized in the tables included in **Appendix C**. Copies of analytical laboratory reports are included in **Appendix D**. Laboratory data was validated and all data are considered viable for reporting as qualified. Copies of data validation reports are provided in **Appendix E**.

3.4 Statistical Evaluation

As part of previous assessment monitoring performed at the Unit, background and downgradient wells for the Wilson Phase II Landfill were sampled for Appendix IV constituents from 2018 through 2024. In accordance with 40 CFR §257.95, GWPSs were established for detected Appendix IV constituents. The

previous 2024 assessment monitoring results indicated the presence of one Appendix IV constituent at SSLs above their respective GWPSs at Monitoring Well MW-10 for cobalt in both semi-annual sampling events.

In accordance with 40 CFR §257.93(f), 40 CFR §257.93(h), and 40 CFR §257.95(d)(2), statistical evaluation of the 2025 assessment groundwater data collected to date was conducted as part of developing this statistical evaluation. The evaluation was conducted to identify any 2025 SSIs over background concentrations for the Appendix III and Appendix IV parameters and any 2025 SSLs over established GWPSs for detected Appendix IV parameters. A summary of the 2025 statistical evaluation conducted on Appendix III and Assessment Appendix IV parameters is provided as **Appendix F**.

Statistical methods were chosen in accordance with 40 CFR §257.93(f) and the rationale behind why each method was selected is outlined in the *Update to Certification of Statistical Method for Evaluation Groundwater* document (Burns & McDonnell, 2022b) dated May 25, 2022. Appendix III groundwater quality data were evaluated using an inter-well approach that statistically compared constituent concentrations at downgradient monitoring wells to those present at a background monitoring well. For the Unit, Monitoring Well MW-8 is designated as the background monitoring well because it is located hydraulically upgradient of the Unit, whereas Monitoring Wells MW-5, MW-6, MW-7, and MW-10 are designated as downgradient compliance monitoring wells because they are located hydraulically downgradient of the Unit and near the CCR waste boundary.

As presented in **Appendix F**, the following Appendix III constituents were observed as SSIs with concentrations above calculated background values in downgradient compliance monitoring wells.

2025 SSIs for Appendix III Detection Monitoring Parameters	
April 2025 Sampling Event	**September 2025 Sampling Event**
Boron (MW-5, MW-6, MW-7, and MW-10)	Boron (MW-5, MW-6, MW-7, and MW-10)
Calcium (MW-5, MW-6, MW-7, and MW-10)	Calcium (MW-5, MW-6, MW-7, and MW-10)
Chloride (MW-5, MW-6, MW-7, and MW-10)	Chloride (MW-5, MW-6, MW-7, and MW-10)
Total Dissolved Solids (TDS) (MW-5, MW-6, MW-7, and MW-10)	TDS (MW-5, MW-6, MW-7, and MW-10)

The previously identified Appendix III constituent SSIs for pH (field) at MW-6 and MW-10 (noted for the first time in 2021) were not verified in 2022, 2023, 2024 and 2025. Fluoride did not have an SSI over background (consistent with historical). Based on the Appendix III SSIs, assessment monitoring is required to continue at the Unit on a semi-annual basis.

As presented in **Appendix F**, the following Appendix IV constituents were observed as SSIs with concentrations above calculated background values in downgradient compliance monitoring wells.

2025 SSIs for Appendix IV Assessment Monitoring Parameters	
April 2025 Sampling Event	**September 2025 Sampling Event**
Cobalt (MW-10)	Cobalt (MW-10)
Lithium (MW-5, MW-6, and MW-7)	Lithium (MW-5, MW-6, and MW-7)

The Appendix IV constituents with SSIs were further evaluated to determine whether they are present at SSLs over the GWPS by calculating the lower confidence limit (LCL) at 95 percent confidence for each monitoring well and constituent using all the baseline, detection, and assessment monitoring results collected to date. For a constituent to be present at an SSL over the GWPS, its LCL must be greater than the GWPS. As presented in **Appendix F**, the following Appendix IV constituents were observed at SSLs over the GWPS.

2025 SSLs Above GWPSs for Appendix IV Assessment Monitoring Parameters	
April 2025 Sampling Event	**September 2025 Sampling Event**
Cobalt (MW-10)	Cobalt (MW-10)

The LCLs for the remaining wells and Appendix IV constituents are less than the GWPS and thus are not considered SSLs. Lithium (MW-6) was reported as an SSL in both 2023 sampling events; however, it was not present as an SSL during 2024 and 2025 sampling events (the LCL was equal to the GWPS at Monitoring Well MW-6).

3.5 Conclusion

Based upon the statistical evaluation of Appendix III and Appendix IV parameters collected during assessment monitoring at the Wilson Phase II Landfill, BREC will continue assessment monitoring in 2026.

4.0 Certifications and Notifications to the Facility Operating Record

The following certifications and notifications were made to the operating record and/or were posted to BREC's publicly accessible CCR website during the 2025 reporting period:

- *2024 Annual Groundwater Monitoring and Corrective Action Report* (Burns & McDonnell, 2025a)
- Re: "1st Half 2025 Remedy Selection Progress Report" (Burns & McDonnell, 2025b);
- Re: "Statistical Evaluation of April 2025 Assessment Monitoring Groundwater Data" (Burns & McDonnell, 2025c; **Appendix F**);
- Re: "Statistical Evaluation of September and October 2025 Assessment Monitoring Groundwater Data" (Burns & McDonnell, 2026a; **Appendix F**); and
- Re: "2nd Half 2025 Remedy Selection Progress Report" (Burns & McDonnell, 2026b).

5.0 Key Activities Planned for 2026

Anticipated activities for the next 2026 annual reporting period include groundwater monitoring and progress towards selection of a remedy for the Unit.

5.1 Groundwater Monitoring

Continued semi-annual assessment monitoring of all CCR Rule program compliance and characterization monitoring wells for the Unit is planned for 2026.

New characterization monitoring wells installed in September 2025 will be evaluated once static water levels stabilize to determine groundwater flow relative to the existing network. Based on this evaluation, each monitoring well will be incorporated into the monitoring program either as a characterization monitoring well or as a water level–only gauging monitoring well. Characterization monitoring wells will be sampled during the first half of the 2026 semi-annual event under 40 CFR 257 and resulting data will be presented in the 2026 Annual Groundwater Monitoring and Corrective Action Report.

5.2 Remedy Selection

As required by 40 CFR §257.97, BREC is in the process of selecting a remedy for groundwater impacts at the Unit. Currently, BREC considers four (4) potential corrective action alternatives reported in the ACM as viable options to address groundwater impacts at the Unit that include:

- Alternative #2a: Closure in Place (CiP), Institutional Controls (ICs), Other Source Control, and Groundwater Monitoring;
- Alternative #3: CiP, ICs, Hydraulic Containment, Other Source Control (consisting of seepage collection and treatment), Ex-Situ Treatment, and Groundwater Monitoring;
- Alternative #4: CiP, ICs, Other Source Control, Physical Containment, Permeable Reactive Barrier, and Groundwater Monitoring; and
- Alternative #5: CiP, ICs, Other Source Control, In-Situ Treatment, and Groundwater Monitoring.

To evaluate each corrective action alternative, additional data collection is required. BREC is currently evaluating data collection needs in the following areas to assist with remedy selection:

1. Nature and extent of impact – groundwater trends, influence of non-groundwater remedies, etc.;
2. Physical characteristics – available data on the physical characteristics of the Wilson Phase II Landfill and the groundwater environment;
3. Performance modeling – data needed to develop digital models demonstrating the effectiveness of potential alternatives; and
4. Engineering – feasibility, cost estimates, etc.

BREC is working to establish a comprehensive list of data collection needs to proceed forward with remedy evaluation and anticipates providing additional data in future semi-annual remedy selection progress reports.

Additionally, feedback from the KDWM of the *Groundwater Assessment Report* (Burns & McDonnell, 2023b) addressing the KDWM requirements at the Wilson Phase II Landfill under a separate state regulatory program

(401 KAR 45:160), will also be used to support filling data gaps and progressing towards selection of a remedy for the Unit. The data generated from the ongoing groundwater assessment under 401 KAR 45:160 (Phase I Special Waste Landfill) and 40 CFR §257.95 (Phase II Landfill) and the groundwater data collected from the new characterization wells installed in September 2025 are critical to the development of a comprehensive site conceptual model for groundwater, which is needed to evaluate the appropriate remedy for the Phase II Landfill groundwater impacts.

The 2026 groundwater monitoring program will continue to assist in evaluating the success of the non-groundwater release remedies currently implemented at the Unit/Site and will further provide relevant and important information to be considered in supporting the evaluation of the final groundwater remedy selection.

6.0 References

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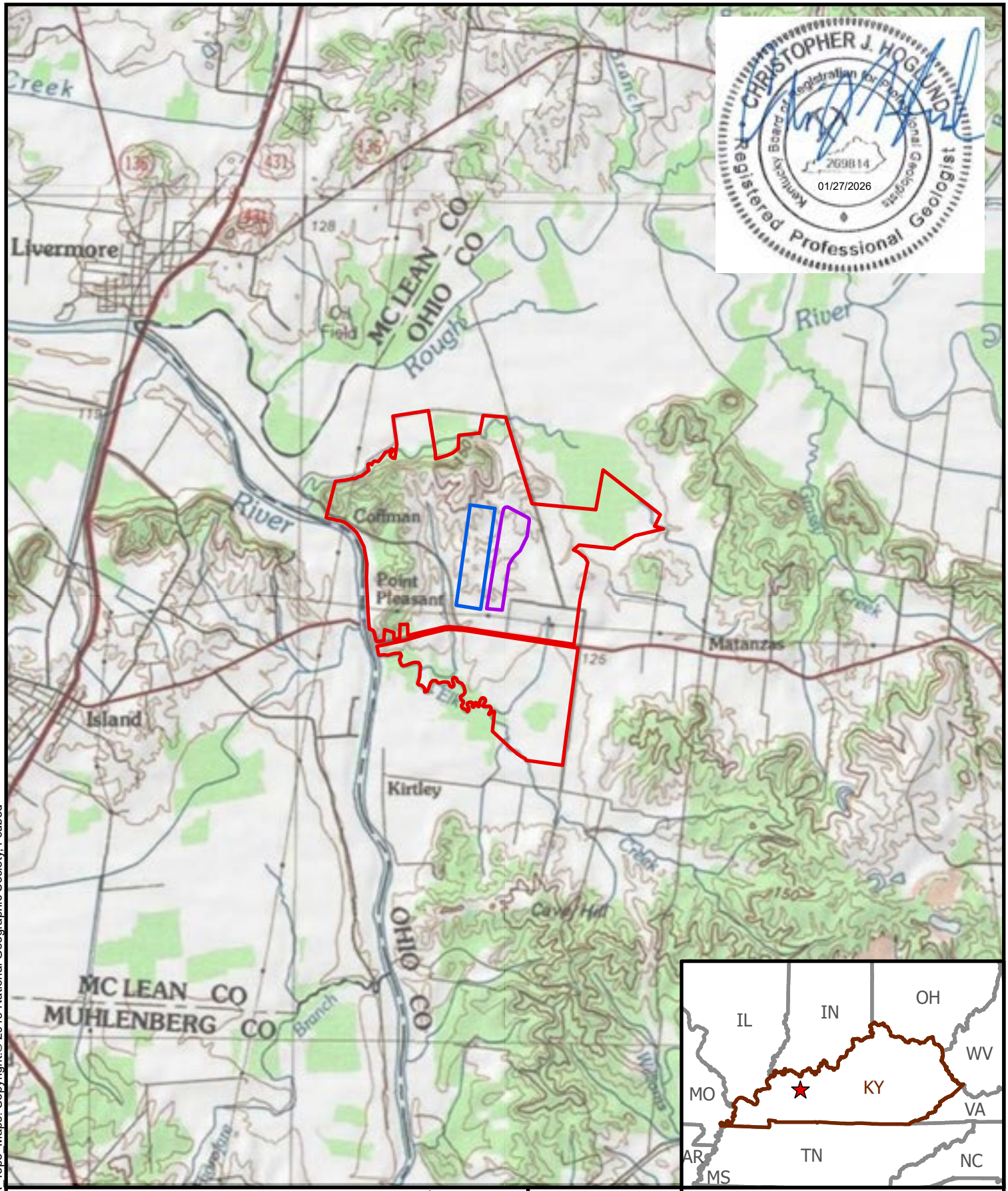
Figures



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WILSON PHASE I LANDFILL
WILSON PHASE II LANDFILL
PROPERTY BOUNDARY

Notes:
1. Boundary lines approximate.
2. Contour interval 50 feet.
3. North American Vertical Datum of 1983

NORTH

0 2,500 5,000
Scale in Feet

BURNS McDONNELL

FIGURE 1
SITE LOCATION MAP
BREC WILSON STATION
OHIO COUNTY, KENTUCKY

Source: Equality Quadrangle, Kentucky, 7.5-Minute Series (USGS, 2022)

Issued: 6/14/2024

Path: \\bmcd.burnsmcd.com\dfs\Clients\ENS\BigRiversEC\145603_WilsonGWSAPs\Studies\Geospatial\DataFiles\ArcDocs\BREC\BREC.aprx ORParab 6/14/2024
Service Layer Credits: USA_Topo_Maps: Copyright:© 2013 National Geographic Society, i-cubed

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MW-8
MW-1
MW-5
P-9
MW-2
MW-102
MW-6
MW-111
P-11
MW-7
MW-3
MW-112
MW-4
MW-10
MW-10D
MW-4D
MW-110
MW-104
MW-113
MW-105R
MW-114

LEGEND

- PROPERTY BOUNDARY
- CCR PHASE 2 FILL
- BOND INCREMENT (PHASE II LF)
- KAR PERMIT AREA
- PHASE I LANDFILL

PHASE II CCR LANDFILL PERMITTED MONITORING WELLS:

- UPGRADIENT MONITORING WELL
- DOWNGRADIENT MONITORING WELL

CHARACTERIZATION MONITORING WELLS:

- CHARACTERIZATION MONITORING WELL
- MONITORING WELL (WATER LEVEL ONLY)
- PIEZOMETER (WATER LEVEL ONLY)

N

0 800' 1600'

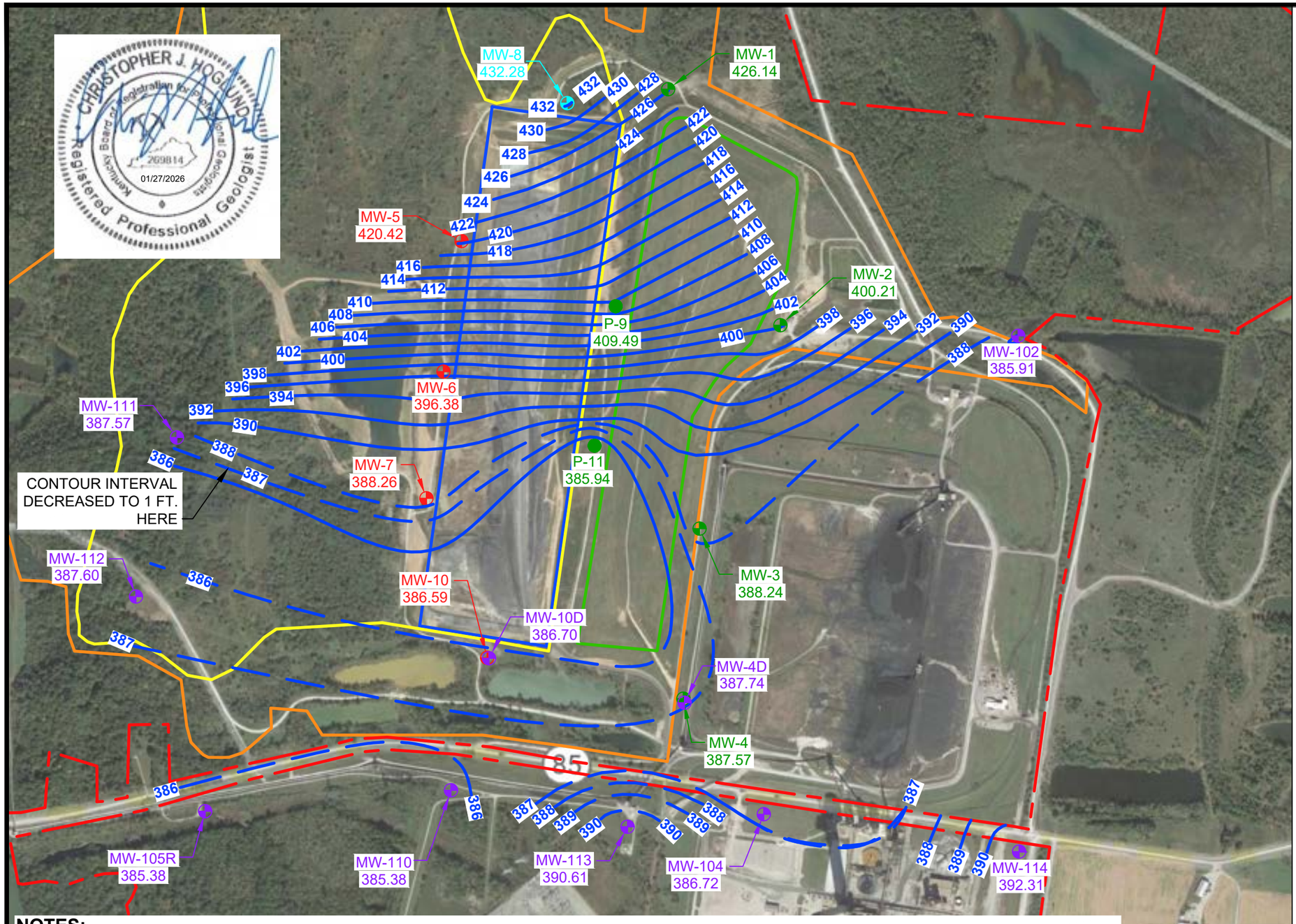
SCALE IN FEET

BURNS McDONNELL

FIGURE 2

GROUNDWATER MONITORING NETWORK
FEDERAL CCR RULE PROGRAM
BREC, WILSON STATION
OHIO COUNTY, KENTUCKY

\\BMCD.BURNSMCD.COM\DFS\CLIENTS\ENS\BIGRIVERSEC\145603_WILSONGWSAPS\DESIGN\CADD\DWGS\145603_FIG2-FEDERAL PLAN_ABMendhe_1/18/2024 1:15:45 PM_BMC-STD.ctb



LEGEND

- PROPERTY BOUNDARY
- CCR PHASE 2 FILL
- BOND INCREMENT (PHASE II LF)
- KAR PERMIT AREA
- PHASE I LANDFILL

PHASE II CCR LANDFILL PERMITTED MONITORING WELLS:

- UPGRADIENT MONITORING WELL
- DOWNGRADIENT MONITORING WELL

CHARACTERIZATION MONITORING WELLS:

- CHARACTERIZATION MONITORING WELL
- MONITORING WELL (WATER LEVEL ONLY)
- PIEZOMETER (WATER LEVEL ONLY)

386.70 GROUNDWATER ELEVATION

390 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

N

0 800' 1600'

SCALE IN FEET

NOTES:

1. GROUNDWATER ELEVATIONS MEASURED ON APRIL 28, 2025.
2. GROUNDWATER ELEVATIONS FROM SHALLOWER MONITORING WELLS USED AT NESTED WELL LOCATIONS (MW-4D AND MW-10D NOT USED IN CONTOURING).
3. MONITORING WELLS SOUTH OF THE KENTUCKY ROUTE 85 (KY 85) CORRIDOR ARE SCREENED WITHIN BEDROCK UNITS AND ARE CONTOURED AS A SEPERATE HYDROSTRATIGRAPHIC UNIT FROM WELLS SCREENED IN MINE TAILINGS (NORTH OF KY 85).

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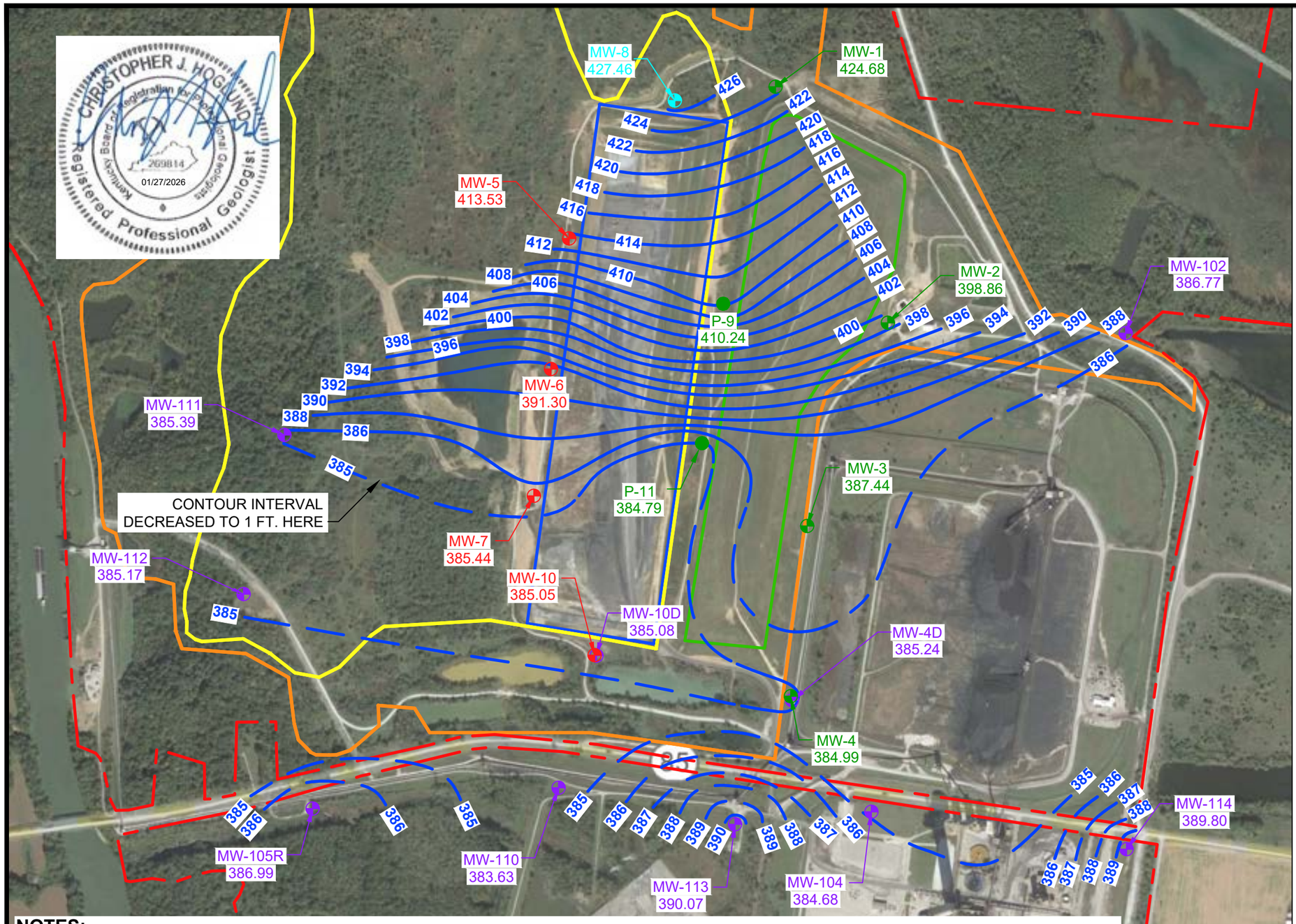
BURNS McDONNELL

FIGURE 3

GROUNDWATER CONTOUR MAP
APRIL 28, 2025
BREC, WILSON STATION
OHIO COUNTY, KENTUCKY

Z:\CLIENTS\ENS\BIGRIVERSEC\185747_WILSON2025GW\STUDIES\SITE_INVEST\DATA\1H2025\DWG\156880FPF001-1H - APRIL_2025_usyelve_11/10/2025 9:12:07 AM_BMC-STD.ctb



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LEGEND

- PROPERTY BOUNDARY
- CCR PHASE 2 FILL
- BOND INCREMENT (PHASE II LF)
- KAR PERMIT AREA
- PHASE I LANDFILL

PHASE II CCR LANDFILL PERMITTED MONITORING WELLS:

- UPGRADIENT MONITORING WELL
- DOWNGRADIENT MONITORING WELL

CHARACTERIZATION MONITORING WELLS:

- CHARACTERIZATION MONITORING WELL
- MONITORING WELL (WATER LEVEL ONLY)
- PIEZOMETER (WATER LEVEL ONLY)

386.87 GROUNDWATER ELEVATION

390 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

N

0 800' 1600'

SCALE IN FEET

NOTES:

1. GROUNDWATER ELEVATIONS MEASURED ON SEPTEMBER 22, 2025.
2. GROUNDWATER ELEVATIONS FROM SHALLOWER MONITORING WELLS USED AT NESTED WELL LOCATIONS (MW-4D AND MW-10D NOT USED IN CONTOURING).
3. MONITORING WELLS SOUTH OF THE KENTUCKY ROUTE 85 (KY 85) CORRIDOR ARE SCREENED WITHIN BEDROCK UNITS AND ARE CONTOURED AS A SEPERATE HYDROSTRATIGRAPHIC UNIT FROM WELLS SCREENED IN MINE TAILINGS (NORTH OF KY 85).

BURNS McDONNELL

FIGURE 4

GROUNDWATER CONTOUR MAP
SEPTEMBER 22, 2025
BREC, WILSON STATION
OHIO COUNTY, KENTUCKY

Tables

Table 1
Summary of Monitoring Well Construction Details
Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Well No.		Location* Lat	Long	Reference Elevation* TOIC (feet, NAD27)	GS (feet, NAD27)	Casing Length (feet, TOIC)	Size / Type (ID / Material)	Filter Pack Interval (feet, NAD27) Top	Bottom	Screened Interval (feet, NAD27) Top	Bottom	Bottom of Boring (feet, GS)
Phase I Landfill Monitoring Wells												
MW-1 (8002-9621)	U	37.4667	-87.0852	443.89	442.31	36.29	4 inch / PVC	419.6	407.6	417.6	407.6	36
MW-2 (8002-9622)	D	37.4618	-87.0820	417.11	414.60	36.01	4 inch / PVC	393.3	381.1	391.1	381.1	36
MW-3 (8002-9623)	D	37.4576	-87.0845	411.12	408.19	36.22	4 inch / PVC	387.2	374.9	384.9	374.9	36
MW-4 (8002-9624)	D	37.4546	-87.0850	408.82	406.55	31.32	4 inch / PVC	389.6	377.5	387.5	377.5	31
Phase II Landfill Monitoring Wells												
MW-5 (8005-3477)	D	37.4638	-87.0910	469.14	467.42	75.00	2 inch / PVC	404.92	391.42	402.92	392.92	76
MW-6 (8005-3476)	D	37.4614	-87.0910	433.06	431.12	53.50	2 inch / PVC	390.42	377.12	388.12	378.12	54
MW-7 (8005-3479)	D	37.4584	-87.0913	426.14	424.08	50.00	2 inch / PVC	386.58	373.18	384.58	374.58	50.9
MW-8 (8005-3475)	U / B	37.4682	-87.0883	471.60	470.01	63.46	2 inch / PVC	419.53	405.96	417.05	407.05	64.05
MW-10 (8005-3478)	D	37.4544	-87.0902	398.91	396.91	22.42	2 inch / PVC	387.16	373.83	384.99	374.99	23.08
Characterization Wells (Screening Use Only)												
MW-4D (8007-4811)	D / C	37.4542	-87.0851	410.02	407.03	96.36	2 inch / PVC	326.03	313.03	324.03	314.03	111
MW-102 (8007-2995)	D / C	37.4613	-87.0757	399.71	396.46	39.25	2 inch / PVC	372.46	360.46	370.46	360.46	36
MW-104 (8007-2994)	D / C	37.4517	-87.0826	392.87	389.76	43.43	2 inch / PVC	361.76	349.26	359.76	349.76	40
MW-105 (8007-2992)**	D / C	37.4516	-87.0973	396.74	393.56	63.31	2 inch / PVC	366.56	333.56	343.56	333.56	60
MW-105R (8007-1175)	U / C	37.4516	-87.0972	397.13	394.11	38.69	2 inch / PVC	371.11	357.94	368.67	358.67	35.33
MW-110 (8007-2996)	D / C	37.4521	-87.0907	393.54	390.56	42.76	2 inch / PVC	362.56	350.56	360.56	350.56	76 / 40
MW-111 (8007-8615)	D / C	37.4593	-87.0982	466.06	463.58	98.48	2 inch / PVC	379.81	367.08	377.81	367.81	105
MW-112 (8007-8614)	D / C	37.4559	-87.0990	403.82	401.15	54.67	2 inch / PVC	361.38	348.65	359.38	349.38	56
MW-113 (8007-1174)	U / C	37.4514	-87.0862	411.61	408.66	57.95	2 inch / PVC	365.89	349.99	363.89	353.89	94
MW-114 (8007-8613)	U / C	37.4510	-87.0760	404.18	401.46	50.72	2 inch / PVC	365.69	351.46	363.69	353.69	56
MW-10D (8007-8616)	D / C	37.4548	-87.0899	399.00	396.27	77.73	2 inch / PVC	333.50	320.77	331.50	321.50	77
Water Levels Only												
P-9 (8005-3480)	water level only	37.4622	-87.0867	432.37	429.19	38.70	2 inch / PVC	402.99	389.99	400.99	390.99	39.2
P-11 (8005-3472)	water level only	37.4593	-87.0872	446.55	444.03	68.60	2 inch / PVC	388.43	374.90	385.93	375.93	69.1

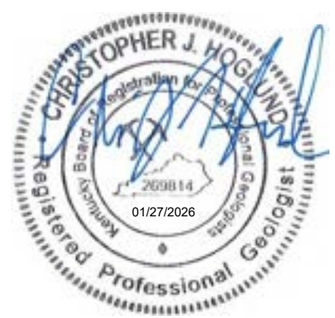

Table 1
Summary of Monitoring Well Construction Details
Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Well No.		Location* Lat	Long	Reference Elevation* TOIC (feet, NAD27)	GS (feet, NAD27)	Casing Length (feet, TOIC)	Size / Type (ID / Material)	Filter Pack Interval (feet, NAD27) Top	Bottom	Screened Interval (feet, NAD27) Top	Bottom	Bottom of Boring (feet, GS)
2025 Newly Installed Monitoring Wells												
MW-105B (8008-0536)	D	37.4516	-87.0973	396.72	393.72	26.81	2 inch / PVC	382.72	369.41	380.16	370.16	28.3
MW-110A (8008-0537)	D	37.4521	-87.0906	393.82	390.53	24.40	2 inch / PVC	381.53	368.92	379.67	369.67	25.0
MW-115A (8008-0545)	D	37.4511	-87.0805	392.79	389.95	22.69	2 inch / PVC	382.95	369.60	380.35	370.35	20.4
MW-115 (8008-0544)	D	37.4512	-87.0805	392.76	389.86	47.40	2 inch / PVC	357.86	344.86	355.61	345.61	45.0
MW-116 (8008-0543)	D	37.4521	-87.0797	412.37	409.31	33.91	2 inch / PVC	391.31	377.46	388.71	378.71	45.0
MW-117 (8008-0542)	D	37.4535	-87.0913	394.54	391.55	27.53	2 inch / PVC	379.55	366.02	377.27	367.27	25.5
MW-118 (8008-0541)	D	37.4532	-87.0970	408.57	405.35	37.93	2 inch / PVC	383.35	370.14	380.89	370.89	41.0
MW-119A (8008-0539)	D	37.4563	-87.1028	395.65	392.55	48.08	2 inch / PVC	360.55	347.07	357.82	347.82	45.5
MW-119 (8008-0538)	D	37.4564	-87.1028	395.57	392.67	69.30	2 inch / PVC	338.67	325.77	336.52	326.52	70.0
MW-120 (8008-0540)	D	37.4551	-87.0976	421.28	418.22	47.56	2 inch / PVC	385.72	373.22	383.97	373.97	45.0

Notes:

*Reference elevation of monitoring wells surveyed by Associated Engineers, Inc., Madisonville, Kentucky June 2015, November 2018, and January 2022, October 2025.

*Survey coordinates were based on the Kentucky State Plane, Kentucky Southern Zone, NAD27 datum.

** Monitoring Well MW-105 was abandoned and replaced by Monitoring Well MW-105R.

PVC = polyvinyl chloride

ID = internal diameter

TOIC = top of internal casing, or measured from (below) TOIC

GS = ground surface, or measured from (below) GS

U / B = upgradient / background

D = downgradient

C = characterization

Table 2
Monitoring Well Network Groundwater Elevations
Phase II CCR Landfill
Big Rivers Electric Corporatoin - Wilson Station
Ohio County, Kentucky

WILSON PHASE II CCR LANDFILL

OPERATING PERMIT GROUNDWATER COMPLIANCE MONITORING WELLS

	MW-5		MW-6		MW-7		MW-8		MW-10	
Reference Elevation TOIC*(ft, NAVD88)	**Downgradient 469.14**		**Downgradient 433.06**		**Downgradient 426.14**		**Upgradient/Background 471.60**		**Downgradient 398.91**	
Date Measured	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**
4/28/2025	48.72	420.42	36.68	396.38	37.88	388.26	39.32	432.28	12.32	386.59
9/22/2025	55.61	413.53	41.76	391.30	40.70	385.44	44.14	427.46	13.86	385.05

CHARACTERIZATION GROUNDWATER MONITORING WELLS

	MW-10D		MW-4D		MW-102		MW-104		MW-105R	
Reference Elevation TOIC*(ft, NAVD88)	**Characterization 399.00**		**Characterization 410.02**		**Characterization 399.71**		**Characterization 392.87**		**Characterization 397.13**	
Date Measured	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**
4/28/2025	12.30	386.70	22.28	387.74	13.80	385.91	6.15	386.72	11.75	385.38
9/22/2025	13.92	385.08	24.78	385.24	12.94	386.77	8.19	384.68	10.14	386.99

CHARACTERIZATION GROUNDWATER MONITORING WELLS

	MW-110		MW-111		MW-112		MW-113		MW-114	
Reference Elevation TOIC*(ft, NAVD88)	**Characterization 393.54**		**Characterization 466.06**		**Characterization 403.82**		**Characterization 411.61**		**Characterization 404.18**	
Date Measured	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**	**Depth to Water (feet)**	**GW Elevation (feet)**
4/28/2025	8.16	385.38	78.49	387.57	16.22	387.60	21.00	390.61	11.87	392.31
9/22/2025	9.91	383.63	80.67	385.39	18.65	385.17	21.54	390.07	14.38	389.80

Table 2
Monitoring Well Network Groundwater Elevations
Phase II CCR Landfill
Big Rivers Electric Corporatoin - Wilson Station
Ohio County, Kentucky

	CHARACTERIZATION GROUNDWATER MONITORING WELLS									
	MW-105B		MW-110A		MW-115		MW-115A		MW-116	
Reference Elevation TOIC*(ft, NAVD88)	Characterization 396.72		Characterization 393.82		Characterization 392.79		Characterization 392.76		Characterization 412.37	
Date Measured	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)
4/28/2025	na	na	na	na	na	na	na	na	na	na
9/22/2025	na	na	na	na	na	na	na	na	na	na

	CHARACTERIZATION GROUNDWATER MONITORING WELLS									
	MW-117		MW-118		MW-119		MW-119A		MW-120	
Reference Elevation TOIC*(ft, NAVD88)	Characterization 394.54		Characterization 408.57		Characterization 395.65		Characterization 395.65		Characterization 421.28	
Date Measured	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)
4/28/2025	na	na	na	na	na	na	na	na	na	na
9/22/2025	na	na	na	na	na	na	na	na	na	na

Table 2
Monitoring Well Network Groundwater Elevations
Phase II CCR Landfill
Big Rivers Electric Corporation - Wilson Station
Ohio County, Kentucy

	SUPPLEMENTAL WATER LEVEL ONLY MONITORING POINTS								PEIZOMETERS			
	MW-1		MW-2		MW-3		MW-4		North (P-9)		South (P-11)	
Reference Elevation TOIC*(ft, NAVD88)	Water Level Only 443.89		Water Level Only 417.11		Water Level Only 411.12		Water Level Only 408.82		Water Level Only 432.37		Water Level Only 446.55	
Date Measured	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)
4/28/2025	17.75	426.14	16.90	400.21	22.88	388.24	21.25	387.57	22.88	409.49	60.61	385.94
9/22/2025	19.21	424.68	18.25	398.86	23.68	387.44	23.83	384.99	22.13	410.24	61.76	384.79

1. Reference elevation of Monitoring Wells MW-1 through MW-8, MW-10, MW-10D, MW-4D, MW-102, MW-104, MW-110, and Piezometers P-9 and P-11 surveyed by Associated Engineers, Inc., Madisonville, Kentucky June 2015.
2. Reference elevation of Monitoring Wells MW-10D, 105R, and MW-111 through MW-114 surveyed by Associated Engineers, Inc., Madisonville, Kentucky January 12, 2022.
3. Survey coordinates were based on the Kentucky State Plane, Kentucky Southern Zone, NAD27 datum.
4. Characterization Monitoring Wells MW-105B, MW-110A, MW-115, MW-115A, MW-116, MW-117, MW-118, MW-119, MW-119A, and MW-120 installed September 2025.

ft = feet
GS = ground surface
GW = groundwater
na = not applicable
NAVD88 = North American Datum of 1988 in feet above mean sea level (amsl).
TOIC = top of internal casing, or measured from (below) TOIC

Table 3
Estimated Vertical Hydraulic Gradients
Phase II CCR Landfill
Big Rivers Electric Corporation - Wilson Station
Ohio County, Kentucky

Well Cluster	Top of Casing Elev. (ft, NAVD88)	Total Well Depth (ft, TOIC)	Well Screen Elevation			Screened Geologic Formation	DTW (ft, TOIC)	Water Elevation (ft, NAVD88)	Water Elevation Difference (ft)	Vertical Gradient (feet/foot)	
			Top (ft, NAVD88)	Midpoint (ft, NAVD88)	Bottom (ft, NAVD88)						
4/28/2025											
MW-4	408.82	32.53	387.50	382.50	377.50	Mine spoils	21.25	387.57	0.17	-0.00268	Upward
MW-4D	410.02	93.5	324.03	319.03	314.03	Mine spoils	22.28	387.74			
MW-10	398.91	22.42	384.99	379.99	374.99	Mine spoils	12.32	386.59	0.11	-0.00206	Upward
MW-10D	399.00	76.95	331.50	326.50	321.50	Mine spoils	12.30	386.70			
9/22/2025											
MW-4	408.82	32.53	387.50	382.50	377.50	Mine spoils	23.83	384.99	0.25	-0.00394	Upward
MW-4D	410.02	93.5	324.03	319.03	314.03	Mine spoils	24.78	385.24			
MW-10	398.91	22.42	384.99	379.99	374.99	Mine spoils	13.86	385.05	0.03	-0.00056	Upward
MW-10D	399.00	76.95	331.50	326.50	321.50	Mine spoils	13.92	385.08			

$$\text{Vertical Gradient (ft/ft)} = \frac{\text{Groundwater Elevation of (Shallow Well) - Groundwater Elevation of (Deep Well)}}{\text{(Screen Midpoint Elevation (Shallow Well) - Screen Midpoint Elevation (Deep Well)}}$$

Notes:

1. Positive vertical gradient value identifies a downward gradient, while a negative value identifies an upward gradient.

DTW = depth to water
ft - feet
NAVD88 = North American Datum of 1988 in feet above mean sea level (amsl)
TOIC = top of internal casing, or measured from (below) TOIC

Appendix A – 2025 Monitoring Well Construction Progress Report

BIG RIVERS ELECTRIC CORPORATION

Monitoring Well Construction Progress Report

Big Rivers Electric Corporation
D.B. Wilson Station, Centertown, KY
Project No. 188763
Agency Interest No. 3319
Revision 0
November 13, 2025

Contents

1.0 Introduction 1-1
1.1 Purpose 1-1
1.2 Report Outline 1-1
2.0 Site Background 2-1
2.1 Site Location and Description 2-1
2.2 Geology 2-1
2.3 Phase I Landfill Existing Monitoring Well Network 2-2
3.0 Monitoring Well Installation Activities 3-1
3.1 Pre- Investigation Activities 3-1
3.1.1 Health and Safety 3-1
3.1.2 Site Access and Permitting 3-1
3.1.3 Utility Clearance 3-1
3.1.4 DWM Notification 3-2
3.2 Work Plan Deviations 3-2
3.3 Monitoring Well Installation Activities 3-2
3.3.1 Decontamination 3-2
3.3.2 Drilling Activities 3-3
3.3.3 Geology Encountered 3-3
3.3.4 Bedrock Borehole Camera Inspection 3-4
3.3.5 Monitoring Well Construction and Installation 3-4
3.4 Monitoring Well Development 3-7
3.5 Monitoring Well Surveying 3-7
3.6 Investigation-Derived Waste 3-7
3.7 Groundwater Occurrence 3-8
3.8 Estimated Vertical Hydraulic Gradient 3-9
3.9 In-Situ Hydraulic Conductivity Testing 3-9
3.10 Groundwater Monitoring Program 3-10
4.0 References 4-1

Figures
Tables
Appendix A – DWM Work Plan Approval Letter
Appendix B – BREC 10-Day Notification Letter to DWM
Appendix C – KDOW Monitoring Well Variance Forms
Appendix D – KDOW Drilling Lubricant Variance Form
Appendix E – Field Logbook

Appendix F – Drill Logs
Appendix G – Field Photographs
Appendix H – Downhole Camera Videos (Electronic Deliverable)
Appendix I – Monitoring Well Construction Diagrams
Appendix J – Uniform Kentucky Well Construction Record
Appendix K – Monitoring Well Development Forms
Appendix L – Monitoring Well Survey Report
Appendix M – IDW Laboratory Analytical Reports
Appendix N – AQTESOLV® In-Situ Hydrualic Conductivity Test Outputs

Figures

Figure 1: Aerial Site Location Map
Figure 2: Topographic Site Location Map
Figure 3: Groundwater Monitoring Network
Figure 4: Site Geologic Map
Figure 5: Mine Spoil Isopach Map

Tables

Table 1: Summary of Monitoring Well System Construction Details
Table 2: Summary of Groundwater Depths and Elevations
Table 3: Estimated Vertical Hydraulic Gradients
Table 4: Estimated Hydraulic Conductivity

List of Abbreviations

Abbreviation	Term/Phrase/Name
amsl	above mean sea level
bgs	below ground surface
BREC	Big Rivers Electric Corporation
CCR	coal-combustion residuals
DOT	U.S. Department of Transportation
DWM	Division of Waste Management
Facility/Site	Big Rivers Electric Corporation's D.B. Wilson Station, Centertown, Kentucky
HASP	health and safety plan
IDW	investigation-derived waste
KAR	Kentucky Administrative Regulation
KDEP	Kentucky Department of Environmental Protection
KDOW	Kentucky Division of Water
PVC	polyvinyl chloride
Report	*Monitoring Well Construction Progress Report*
SW Permit	Solid Waste Permit #SW09200004
UN	United Nations
Work Plan	*2025 Monitoring Well Installation Work Plan*

Index and Certification

BIG RIVERS ELECTRIC CORPORATION
Monitoring Well Construction Progress Report
Project No. 188763

Report Index

Chapter Number	Chapter Title	Number of Pages
1.0	Introduction	2
2.0	Site Background	3
3.0	Monitoring Well Installation Activities	10
4.0	References	1
Figures		5
Tables		7
Appendix A	KDWM Work Plan Approval Letter	3
Appendix B	BREC 10-Day Notification Letter to KDWM	2
Appendix C	KDOW Monitoring Well Variance Forms	13
Appendix D	KDOW Drilling Lubricant Variance Form	2
Appendix E	Field Logbook	13
Appendix F	Drill Logs	32
Appendix G	Field Photographs	30
Appendix H	Downhole Camera Videos (Electronic Deliverable – 5 Video Files)	na
Appendix I	Monitoring Well Construction Diagrams	10
Appendix J	Uniform Kentucky Well Construction Record	53
Appendix K	Monitoring Well Development Forms	10
Appendix L	Monitoring Well Survey Report	2
Appendix M	IDW Laboratory Analytical Reports	59
Appendix N	AQTESOLV® In-Situ Hydraulic Conductivity Test Outputs	338

Certification

I, Chris Hoglund, hereby certify that I am a qualified groundwater scientist, having received a baccalaureate or post-graduate degree in the natural sciences or engineering, and having sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound judgements regarding groundwater and contaminant fate and transport.

I further certify, that the information in this document was assembled under my direct personal charge. This report is not intended or represented to be suitable for reuse by the BIG RIVERS ELECTRIC CORPORATION or others without specific verification or adaption by the Geologist.

Chris Hoglund, PG
KY Registered Professional Geologist No. 269814
Burns & McDonnell Engineering Company, Inc.
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Date: 11/13/2025

1.0 Introduction

Burns & McDonnell on behalf of Big Rivers Electric Corporation (BREC), has prepared this *Monitoring Well Construction Progress Report* (Report) for the installation of monitoring wells at the D.B. Wilson Station in Ohio County, Kentucky (Facility/Site) in accordance with *Kentucky Administrative Regulations (KAR) Title 401 Energy and Environment Cabinet – Department for Environmental Protection of the Chapter 6 Water Wells, Part 350: Monitoring Well Construction Practices and Standards (401 KAR 6:350)*. An aerial and topographic Site location map are provided as **Figures 1** and **2**, respectively.

1.1 Purpose

At the request of BREC, additional groundwater monitoring wells were installed to evaluate and characterize groundwater flow patterns in areas south, southwest, and west of the landfill. This work was conducted, in part, to address Comment #3 of the Kentucky Department of Environmental Protection (KDEP) Department of Waste Management's (DWM) Technical Notice of Deficiency No. 2 (KDEP DWM, 2025b), issued in relation to the *State-Specific Groundwater Monitoring Program* (Burns & McDonnell, 2024). The newly installed monitoring wells are intended to support BREC's compliance with the requirements of Solid Waste Permit #SW09200004 (SW Permit) issued by KDEP DWM (KDEP DWM, 2025a). Specifically, the installations align with the objectives outlined in *401, KAR Chapter 45 – Special Waste, Regulation 160: Surface and Groundwater Monitoring and Corrective Action for Special Waste Sites or Facilities* (401 KAR 45:160), Sections 2 and 5, which pertains to groundwater monitoring system design and assessment under the State Program. These wells will assist in characterizing the local groundwater flow and determining the existence, quality, quantity, areal extent, and depth of groundwater quality degradation, as well as the rate and direction of contaminant migration within the groundwater system, pursuant to 401 KAR 45:160, 401 KAR 6:350, and the SW Permit.

The groundwater monitoring well network is illustrated in **Figure 3**.

1.2 Report Outline

This Report presents a summary of the groundwater monitoring well installation activities conducted at the Site. It includes the following components:

- Site Background – **Section 2.0**;
- Monitoring Well Installation Activities – **Section 3.0**;
- References – **Section 4.0**;
- DWM Work Plan Approval Letter – Included in **Appendix A**;
- BREC 10-Day Notification Letter to DWM – Included in **Appendix B**;
- Kentucky Division of Water (KDOW) Monitoring Well Variance Request Forms – Included in **Appendix C**;
- KDOW Lubricant Variance Request Form – Included in **Appendix D**;

- Field Logbook – Included as **Appendix E**;
- Drill Logs – Included as **Appendix F**;
- Field Photographs – Included as **Appendix G**;
- Downhole Camera Videos – Included as **Appendix H** (electronic deliverable);
- Monitoring Well Construction Diagrams – Included as **Appendix I**;
- Uniform Kentucky Well Construction Record – Included as **Appendix J**;
- Monitoring Well Development Forms – Included as **Appendix K**;
- Monitoring Well Survey Report – Included as **Appendix L**;
- Investigation-derived waste (IDW) Laboratory Analytical Reports – Included as **Appendix M**; and
- AQTESOLV® In-Situ Hydraulic Conductivity Test Outputs – Included as **Appendix N**.

2.0 Site Background

Below is a summary of the Site location and description, geology, and existing monitoring well network.

2.1 Site Location and Description

D.B. Wilson Station is located in Ohio County, approximately 5 miles northwest of the town of Centertown, Kentucky (**Figure 1**). The Wilson Landfill lies north of State Route 85, east of the Green River, south of the Rough River, and west of Raymond Nall Road. The Wilson Landfill is permitted under the 401 KAR 45 for disposal of special waste, which includes utility byproducts such as fly ash, bottom ash, and scrubber sludge per Kentucky Revised Statutes 224.50-760. The landfill is divided into two distinct phases, Phase I and Phase II (**Figure 1**). Phase I is located east of an overhead power corridor that runs from north to south, while Phase II is positioned west of this power corridor. The Phase I footprint encompasses approximately 103 acres (**Figure 1**) and began receiving waste around 1984 and stopped receiving waste in approximately 2010. In contrast, the Phase II Landfill remains active. The original ground surface within the landfill footprint was an irregular, post-mining reclaimed landscape.

Both Phase I and Phase II Landfills are located on an upland plain east of the Green River, with elevations ranging from approximately 420 feet to 570 feet above mean sea level (amsl). Stormwater runoff from these areas is directed to ponds located on the south, east, and west sides of the Phase II Landfill. From these ponds, water is discharged under Kentucky Pollution Discharge and Elimination System permits, either to Elk Creek to the south or to a tributary of the Rough River to the north. Elk Creek, a primary tributary to the Green River, flows westward to the Green River.

2.2 Geology

The Phase I and Phase II Landfills lie in the Western Kentucky Coalfields section of the Interior Low Plateaus physiographic province, characterized by rolling uplands underlain by coal-bearing bedrock of the Pennsylvanian Period. The Geology underlying the Site vicinity consists of unconsolidated materials, including loess, alluvial deposits, and mine spoil, underlain by Upper to Middle Pennsylvanian-age clastic and carbonate bedrock consisting primarily of sandstone and shale.

The geologic quadrangle (**Figure 4**, Geologic map of the Equality quadrangle, Ohio County, Kentucky, 1969) for the Site vicinity, published by the United States Geological Survey, shows the surficial material to be unconsolidated Quaternary alluvium and Upper Pennsylvanian coal deposits. However, south of State Route 85 these materials consist of silty clay and clayey silt, ranging in thickness from 6 feet (MW-104) to 25 feet (MW-110), while north of State Route 85 the thickness is 36 feet (MW-102). The mine spoil deposits are primarily located north of State Route 85 in the reclaimed mine area. The spoil deposits consist of a relatively fine-grained matrix of disaggregated, unsorted mixtures of silty clay soils, with gravel-to boulder sized pieces of sandstone and durable shales resulting from historic strip-mining activities that were subsequently reclaimed with mine spoil backfill. The thickness and distribution of mine spoil, which approximates the physical limits of the uppermost water-bearing zone under the Unit, are illustrated on **Figure 5**. The base of the spoil deposits slopes from north to south, following the base of the Number 9 Coal Bed of the Carbondale Formation as illustrated on **Figure 4**, which was removed by strip mining and subsequently reclaimed with spoil backfill.

Based on borings completed at the Site, the unconsolidated materials are underlain by bedrock of the Middle Pennsylvanian Carbondale Formation. The Carbondale Formation consists of cyclic sequences of sandstones, shales, siltstones, and coals. The Carbondale sediments were deposited in a fluvial-deltaic system. As a result of the depositional environment, the sandstone units of the Carbondale tend to be lenticular bodies rather than continuous sheet-like strata. Regionally, gradational and abrupt horizontal changes in lithology are often encountered.

2.3 Phase I Landfill Existing Monitoring Well Network

The existing groundwater Monitoring Well network associated with the Phase I Landfill consists of the following:

- One (1) Upgradient Compliance Monitoring Well – MW-8 (serves as background well for the Phase I Landfill) and
- Four (4) Phase I Landfill Permitted Compliance Monitoring Wells including:
    - One (1) Upgradient Monitoring Well – MW-1 (not utilized as background well due to elevated constituent concentrations in groundwater suggesting the well is impacted)
    - Three (3) Downgradient Compliance Monitoring Wells – MW-2, MW-3, and MW-4.

The Phase I Landfill is under assessment groundwater monitoring, which includes additional monitoring wells utilized as characterization monitoring wells only and are not part of the Phase I Landfill compliance monitoring well network. These characterization wells are used for screening purposes to evaluate the existence, quality, areal extent, and depth of groundwater quality degradation, and the rate and direction of migration of contaminants in groundwater in accordance with 401 KAR 45:160 Section 5 – *Groundwater Contamination Assessment and Corrective Action*. Groundwater data from these characterization wells will be used to inform the evaluation of a future groundwater remedial action plan, in accordance with the corrective action requirements outlined in 401 KAR 45:160 Section 5. The current set of characterization monitoring wells includes:

- Characterization Monitoring Wells: MW-4D, MW-10D, MW-102, MW-104, MW-105R, MW-110, MW-111, MW-112, MW-113, and MW-114.

Other existing wells in the vicinity of the Phase I Landfill used for water level gauging purposes only to evaluate groundwater flow direction include:

- Two (2) Piezometers – P-9 and P-11 and
- Four (4) existing Monitoring Wells – MW-5, MW-6, MW-7, and MW-10.

The currently defined groundwater monitoring network is summarized in **Table 1** and illustrated on the aerial and surface geologic maps in **Figures 3** and **4**, respectively.

It is important to note that the *Construction Progress Report* (AECOM, 2019) for Characterization Monitoring Wells MW-4D, MW-102, MW-104, MW-105, and MW-110 (APE20190003) was denied by DWM on January 28, 2020, due to violations of 401 KAR 6:350. The denial letter states, "*DWM does not object to BREC using the*

subject wells for groundwater assessment screening purposes only, but the resulting groundwater data can only be provisionally accepted. Compliance data should be obtained from wells approved by DWM."

3.0 Monitoring Well Installation Activities

To support the installation of the groundwater monitoring wells, the following field activities were performed in accordance with the DWM-approved *2025 Monitoring Well Installation Work Plan* (Work Plan) (Burns & McDonnell, 2025a):

- Drilled and installed 10 monitoring wells;
- Developed nine (9) of 10 newly installed monitoring wells;
- Performed slug testing on (9) of 10 newly installed monitoring wells; and
- Conducted surveying of the newly installed monitoring wells.

The monitoring well locations are illustrated in **Figure 3**. The general approach and findings of field activities are presented below. These new groundwater monitoring wells will be included as characterization wells in the established groundwater monitoring program at the Site to evaluate the occurrence and flow direction of groundwater in the western and southwestern portions of the site. A copy of the Work Plan approval letter from the DWM is provided in **Appendix A**.

3.1 Pre- Investigation Activities

Pre-investigation activities included preparing a Site-specific health and safety Plan (HASP), obtaining onsite property access, clearing subsurface utilities, and satisfying DWM permit requirements.

3.1.1 Health and Safety

A Site-specific HASP (Burns & McDonnell, 2025b) was developed for the implementation of the monitoring well installation activities. The HASP met applicable Occupational Safety and Health Administration standards/guidelines relevant to the planned workplace field activities and also included current state safety standards and BREC-specific health and safety requirements. The HASP was used to guide safety practices for the field work of both Burns & McDonnell field personnel and Burns & McDonnell subcontractors. No health or safety incidents occurred during the well installation activities.

3.1.2 Site Access and Permitting

Site access, including access to the monitoring well locations within the existing BREC D.B. Wilson Station property, was obtained and coordinated with BREC prior to initiation of field work. No access agreements or permits were needed as all the monitoring wells are located on BREC property.

3.1.3 Utility Clearance

Prior to start of field activities, subsurface utilities were identified with assistance from BREC personnel, Kentucky One-Call (811 local 0r 1-800-752-6007), a public utility locating service, and a private utility locator. BREC was responsible for locating all on-Site utilities owned by BREC, while Burns & McDonnell contracted Ground Penetrating Radar Systems, LLC, a private utility locating firm, to further mark and clear utilities in the vicinity of the proposed monitoring well locations.

3.1.4 DWM Notification

In accordance with 401 KAR 6:350 Section 12 and SW Permit (GSTR003), BREC provided the DWM at least 10 days prior to monitoring well construction and abandonment activities associated with the DWM-approved Work Plan. Notification was provided to the DWM via a letter prepared by BREC dated August 19, 2025. A copy of the notification letter is provided in **Appendix B**. A member of the DWM was present to observe construction activities for Monitoring Wells MW-115 and MW-120.

3.2 Work Plan Deviations

The following deviations from the DWM-approved Work Plan were implemented during monitoring well installation activities:

- Monitoring Wells MW-115 and MW-115A were relocated from their originally proposed locations due to the presence of subsurface infrastructure. The new locations were selected in coordination with BREC and DWM.
- Monitoring Well MW-120 was added between Monitoring Wells MW-118 and MW-119/119A to support characterization of groundwater conditions within mine spoils near the southern high-wall of historical coal strip mining. This additional monitoring well was installed after the planned location for Monitoring Well MW-118 revealed that it was situated in native materials, outside the expected footprint of the mine spoils.
- An emergency variance was requested and approved by DWM to allow the use of bentonite pellets as the annular seal material in place of high-solids bentonite grout slurry at Monitoring Well MW-110A. The variance was requested due to the limited available thickness, approximately 5 feet above the bentonite seal.
- Emergency variances were approved by DWM to allow the number of bollards to be reduced from eight to six around clustered Monitoring Wells MW-115/115A and MW-119/119A.

Variances requests were conducted in accordance with 401 KAR 6:350 Section 7 *Variance*. Emergency variances granted by DWM were initially provided verbally and subsequently documented through email correspondence. Completed Kentucky Monitoring Well Variance Request forms were submitted by the driller to the KDOW on November 11, 2025. Copies of these variance forms, signed by the certified monitoring well driller, monitoring well owner, and the KDOW, are included in **Appendix C**.

3.3 Monitoring Well Installation Activities

To enhance the characterization of groundwater flow patterns in areas south, southwest, and west of the landfill, a total of 10 new monitoring wells were installed in accordance with the DWM-approved Work Plan to fulfill the project objectives (**Figure 3**).

3.3.1 Decontamination

Drilling equipment, tooling, and other non-disposable sampling equipment used for subsurface drilling/soil sampling and monitoring well installations were decontaminated with a water pressure washer prior to drilling operations and between boring and monitoring well locations. Centralized decontamination area was constructed near existing Monitoring Well MW-113, and all decontamination fluids were temporarily

contained within a large water trough (stock tank). Decontamination fluids were pumped from the decontamination trough and managed in accordance with IDW procedures specified in **Section 3.6**.

3.3.2 Drilling Activities

Roto-sonic drilling methods were used for borehole advancement and monitoring well construction using the standard 4"x6" Sonic Drilling System with a 6-inch outside diameter outer casing and 4 ¼-inch inside diameter interior sonic casing. Drilling and well construction/installation services were provided by Cascade Drilling LP, a Kentucky-licensed driller and DWM-certified well contractor, specifically certified in roto-sonic drilling techniques. All work was conducted in accordance with 401 KAR 6:350 *Monitoring Well Construction Practices and Standards*.

In compliance with 401 6:350 Section 3 *Monitoring Well Construction*, a Kentucky Monitoring Well Variance Request form was completed by the driller and approved by the KDOW prior to initiating field activities that permitted the use of a lubricant on the drill pipe threads. A signed copy of the variance form is included in **Appendix D**.

Continuous soil sampling was conducted at each monitoring well location using 4 ¼-inch interior sonic drill casing equipped with a 10-foot sample barrel at its base. The casing was advanced through both overburden and bedrock materials to collect subsurface soil/rock data for logging purposes. As drilling progressed, the 4 ¼-inch casing was sequentially overridden by a 6-inch isolation/conductor casing to the target depth, thereby enlarging the borehole to approximately 6 inches in diameter to facilitate monitoring well installation.

3.3.3 Geology Encountered

The retrieved continuous soil/bedrock samples from roto-sonic drilling were examined by the Burns & McDonnell field geologist. A copy of the field logbook and drill logs are included in **Appendices E** and **F,** respectively. The drilling depths of the new monitoring wells are summarized in **Table 1.**

The overburden encountered in borings completed for monitoring wells located outside of the mine spoil footprint (MW-105B, MW-110A, MW-115A, MW-115, MW-117, MW-118, MW-119A, and MW-119) was similar at each location. The upper 2 to 5 feet of overburden consisted of yellowish-brown clay with silt and trace sand. Sand content increased with depth and indurated layers become more present. Bedrock was encountered at six of 10 monitoring well locations (MW-105B, MW-110A, MW-115, MW-117, MW-118, and MW-119), with depths ranging from 1-foot below ground surface (bgs) at MW-118 to 67 feet bgs at MW-119. A mica and quartz rich sandstone was encountered as the first competent bedrock except at MW-115 and MW-119 where shale was encountered. The upper 3 to 5 feet of sandstone was weathered and highly oxidized with iron staining. The iron-stained sandstone transitioned into a light to medium gray, fine grained, quartz and mica-rich sandstone. The sandstone had few natural fractures with some healed fractures throughout; some organic inclusions/laminations were found at varying depths within the sandstone bedding. At Monitoring Well MW-115, a dark gray to black carbonaceous shale with interbedded coal was encountered, while at Monitoring Well MW-119, a light gray to gray weathered shale was observed.

Monitoring Wells MW-116 and MW-120 were installed in mine spoils. The base of the spoil deposits slopes from north to south, following the base of the Number 9 Coal Bed of the Carbondale Formation as illustrated on **Figure 4**. A mine spoil thickness/distribution (isopach) map is provided in **Figure 5**. As noted above, the mine spoil deposits are dominated by a fine-grained matrix of disaggregated, unsorted mixtures of silty clay soils, with gravel-to boulder-sized pieces of sandstone and durable shales derived from the historic strip-mining activities. Based on this composition, the mine spoils provide a relatively poor-quality

water-bearing unit. However, the spoil deposits are the uppermost water-bearing zone for groundwater monitoring purposes under 401 KAR 45:160.

Photos of the recovered soil and bedrock from each monitoring well location, along with documentation well installation activities, are included in **Appendix G**. The subsurface geology encountered during drilling guided the selection of target depths for placing monitoring well screens within either the mine spoils, overburden, or bedrock formations.

3.3.4 Bedrock Borehole Camera Inspection

At designated bedrock monitoring well locations, a downhole camera was deployed into the borehole to further evaluate the presence of fractures to support well screen placement. A submersible electric pump was deployed in the borehole to remove water to improve visibility of the bedrock sidewall. This allowed for a more detailed inspection of potential groundwater infiltration through bedrock fractures. Videos from the downhole camera inspections at bedrock Monitoring Wells MW-105B, MW-115, MW-117, and MW-118 are included in **Appendix H**. A summary of the downhole camera inspection results is summarized below.

Monitoring Well Borehole Camera Inspection Results

Monitoring Well Borehole	Downhole Camera Inspection Notes
MW-105B	No significant observations.
MW-115	Due to the groundwater yield exceeding the pumping rate, the water level remained above approximately 20 feet bgs, preventing successful video recording with the downhole camera.
MW-117	Observed groundwater infiltrating into borehole from sidewall around bottom of 6-inch override drill casing at approximately 15 feet bgs.
MW-118	Due to the groundwater yield exceeding the pumping rate, the water level remained above approximately 20 feet bgs, preventing successful video recording with the downhole camera.

3.3.5 Monitoring Well Construction and Installation

A total of 10 new monitoring wells were installed, comprising two monitoring well pairs (MW-115/115A and MW-119/119A) and six individual monitoring wells (MW-105B, MW-110A, MW-116, MW-117, MW-118, and MW-119), with their locations illustrated in **Figure 3**.

Monitoring Wells MW-105B and MW-110A were placed near existing deeper bedrock monitoring wells to create new clustered monitoring well pairs. Specifically, MW-105B was installed approximately 10 feet west of Monitoring Well MW-105R, while Monitoring Well MW-110A was positioned about 10 feet east of Monitoring Well MW-110.

Table 1 summarizes the construction details for the newly installed wells, with corresponding screened formations described below.

New Monitoring Well Screened Formations

New Monitoring Well	Screened Formation
MW-105B	Bedrock (Sandstone)
MW-110A	Alluvial Clay
MW-115A	Alluvial Clay (shallow well)
MW-115	Bedrock (Shale)
MW-116	Mine Spoils
MW-117	Bedrock (Shale)
MW-118	Bedrock (Sandstone)
MW-119A	Alluvial Clay (shallow well)
MW-119	Alluvial Sand (deep well)
MW-120	Mine Spoils

Monitoring well construction and installation services were provided by Cascade Drilling LP, a Kentucky-licensed driller and DWM-certified well contractor, specifically certified in roto-sonic drilling techniques. All work was conducted in accordance with 401 KAR 6:350 *Monitoring Well Construction Practices and Standards*. Monitoring well construction adhered to requirements of 401 KAR 6:350 Section 7 and 401 KAR 45:160 Section 3(3). In accordance with 401 KAR 6:350 Section 12, 2-inch diameter monitoring wells were approved by DWM as an alternate specification, without the need for a variance.

Before installing the monitoring wells at the targeted depths, a minimum 6-inch-thick filter pack sand cushion was placed in the bottom of each borehole. The monitoring well filter packs consisted of P.W. Gillibrand Co., Inc. sand (clean, uniform, 12/20-grade silica sand).

Monitoring well materials consisted of 2-inch diameter Schedule 40 polyvinyl chloride (PVC). No glues or solvents were used in the construction of the monitoring wells. Monitoring wells were constructed with 10-foot long, 0.010-inch machine-slotted screens. The monitoring well casing, screen, and end cap were threaded together to construct each monitoring well and placed in the associated borehole through the 6-inch sonic casing, with the end cap set on top of the filter pack sand cushion. For Monitoring Well MW-119 (the only monitoring well greater than 50 feet in depth), the casing was equipped with centralizers with the lowermost centralizer placed at the bentonite seal, and subsequent centralizers were placed every 10 feet thereafter proceeding upwards to 16 feet bgs. Filter pack sand was placed around each monitoring well screen and extended from the bottom of the monitoring well to approximately 2 feet above the top of each monitoring well screen. The sand filter packs were placed by the gravity free-fall method with the depth of sand continuously monitored during placement downhole with a weighted tape measure to confirm bridging was not occurring and that the targeted top of sand placement depths were achieved.

At each monitoring well, an approximate 2-foot-thick bentonite seal was placed immediately above the sand filter pack, and consisted of Polymer Drilling Systems Pel-Plug 3/8-inch coated, time-release bentonite pellets. The bentonite pellets were placed using the gravity free-fall method while continuously monitoring installation depths during placemen downhole with a weighted tape measure to confirm bridging was not occurring and that the targeted top of bentonite placemen depth was achieved. Most of the bentonite seals were allowed to hydrate per manufacturer's recommendation of minimum 4 hours before placing the annular seal. Monitoring Wells MW-105B, MW-117, MW-119A, and MW-119 were hydrated for only 2 hours prior to

placement of the annular seal. To evaluate the effectiveness of this shortened hydration period, two field tests were conducted at Monitoring Wells MW-115 and MW-118 using purged groundwater from the respective monitoring wells. The results indicated that adequate hydration of the bentonite pellets was achieved within the 2-hour timeframe. Furthermore, the absence of high-solids bentonite grout slurry observed during development in the monitoring wells that underwent a 2-hour hydration period for the bentonite pellets supports the conclusion that this duration was adequate for establishing effective bentonite seals.

Annular seals consisted of Haliburton's Quik-Grout®, a high-solids bentonite grout slurry. The grout was placed above the hydrated bentonite seal at each monitoring well using a tremie grout pipe per 401 KAR 6:350 Section 7 *Materials for Monitoring Wells and Temporary Monitoring Wells*, with the bottom of the pipe placed approximately 0.5- to 1.0-foot from the top of the bentonite seal. The grout pipe remained at depth until the high-solids grout reached approximately 3 feet bgs. The grout was allowed to settle and if needed, additional grout was added to achieve a final minimum grout depth of 3 feet bgs.

Monitoring wells were completed above the ground surface in accordance with 401 KAR 6:350 Section 8 *Surface Completion*. Each monitoring well casing was constructed to protrude approximately 2.5 feet above ground surface and was fitted with a locking steel protective cover. The protective covers were installed by first pouring concrete slurry into the borehole on top of the annular seal and then pushing the protective covers into the wet concrete slurry, approximately 3 feet bgs. A 3-foot square, 6-inch-thick concrete pad was constructed around each protective cover, with the protective cover centered within the pad. The concrete surface pads were installed in separate pours after the installation of the protective surface covers. The concrete pads were sloped outward to provide a means for water to flow from the pads and two (2) ¼-inch weep holes were drilled into opposite sides of each steel protective cover, approximately ½-inch above the concrete pads. Four (4) bollard posts were installed outside the corners of each well pad to provide protection from vehicle or equipment strikes. The bollards were not located within or in contact with the surface well pad and consisted of 3-inch diameter steel pipes that were 5-foot in length, extending approximately 3 feet above ground surface and 2 feet bgs. The bollards were coated with high-visibility yellow paint and filled with concrete. A water-tight well cap was installed in the top of each well casing, and a minimum clearance of approximately 1-inch was maintained between the top of each well casing and the protective cover to provide secure, unobstructive closure of the lids. Kentucky Water Well identification tags were affixed to the inside of each protective cover lid, as outlined below.

New Monitoring Well Kentucky Water Well Identification Tags

New Monitoring Well	Kentucky Well ID No.
MW-105B	8008-0536
MW-110A	8008-0537
MW-115A	8008-0545
MW-115	8008-0544
MW-116	8008-0543
MW-117	8008-0542
MW-118	8008-0541
MW-119A	8008-0539
MW-119	8008-0538
MW-120	8008-0540

The monitoring well construction details and monitoring well diagrams for the new monitoring wells are provided in **Table 1** and **Appendix I**, respectively. Photos of the typical monitoring well construction and installations activities are included in **Appendix G**. A uniform Kentucky Well Construction Record was completed by Cascade Drilling LP for each new monitoring well and submitted to DWM. Copies of the monitoring well construction records are provided in **Appendix J**.

3.4 Monitoring Well Development

Monitoring well development was performed on nine of the 10 newly installed monitoring wells to remove fine-grained material from the monitoring well screens and filter packs. Monitoring Well MW-115A was installed dry and was not developed due to slow recharge and water level not reaching static before completion of field activities. Redevelopment will be conducted by a certified driller once sufficient water has entered the well to allow for proper development procedures. Development was accomplished by surging and pumping the monitoring wells using a submersible pump.

Most of the monitoring wells were each developed a minimum of three times, with the monitoring well being pumped dry during each development event due to the low yield from the screened alluvium or bedrock. High yield conditions were observed at Monitoring Wells MW-115 and MW-120 resulting in these wells being developed without purging dry by removing at least three saturated borehole well volumes. Field water quality parameters of pH, specific conductivity, temperature, and relative turbidity were measured at the beginning and throughout well developments. For low-yielding wells, final water quality parameter readings were recorded after the monitoring well was nearly dry. Data collected during the development of each monitoring well was documented on a Well Development Record form. Copies of these records are included in **Appendix K**.

3.5 Monitoring Well Surveying

Surveying was performed by Associated Engineers, Inc. of Madisonville, Kentucky, a Kentucky-licensed Professional Land Surveyor, on September 24, 2025. The monitoring well locations were surveyed horizontally to the nearest 0.1-foot and referenced to a local coordinate system (northing and easting) using the Kentucky State Plane, Southern Zone and also included latitude/longitude coordinates. The monitoring well locations were surveyed vertically using an established surveyed benchmark referenced to the North American Datum 1927. The ground surface elevation at each monitoring well location was measured to the nearest 0.1-foot relative to mean sea level and reported using a Facility-specific datum from an established surveyed benchmark. The top of the monitoring well PVC riser pipe was surveyed to the nearest 0.01-foot relative to mean seal level. The survey report prepared by Associated Engineers, Inc. is provided in **Appendix L**.

3.6 Investigation-Derived Waste

Excess soil cuttings resulting from the drilling operations through soil overburden (non-mine spoils) were placed of on the ground surface near the respective boring or well location. Excess soil cuttings composed of mine spoil material, generated during drilling at Monitoring Wells MW-116 and MW-120, were containerized in U.S. Department of Transportation (DOT)-approved and United Nations (UN)-rated 55-gallon steel drums and staged on site.

Liquid IDW, primarily consisting of decontamination water and groundwater purged during monitoring well development, was also temporarily stored in DOT-approved and UN-rated 55-gallon drums on Site.

Samples of IDW were collected as outlined below.

IDW Sampling Summary

Material	Samples	55-Gallon Drums	Laboratory Analysis (Method)
Mine Spoil Drill Cuttings	2 composites	2	RCRA 8 Metals (SW846-6020A) TCLP RCRA 8 Metals (SW846-1311/6020A) pH (SW846-9045) Flashpoint (SW846-1010) Total Solids (2540 G-2015) Paint Filter Test (SW846-9095B) Arsenic, Boron, Calcium, Cobalt, Lithium, Mercury (EPA 200.7/245.1) SPLP Arsenic, Boron, Calcium, Cobalt, Lithium, Mercury (SW846-1311; EPA 200.7/245.1) Chloride & Sulfate (SW846-9056) SPLP Chloride & Sulfate (SW846-1311; SW846-9056)
Liquids	6 composites	27	RCRA 8 Metals (SW846-6020A) pH (SM 4500-H+ B-2011) Flashpoint (SW846-1010) Odor (2150B-2011) Color (2120 E-1997) Total Solids (2540 B/G-2015)

EPA – Environmental Protection Agency
RCRA – Resource Conservation and Recovery Act
SM – Standard Methods
SPLP – Synthetic Precipitation Leaching Procedure
TCLP – Toxicity Characteristic Leaching Procedure

Laboratory analytical results of the mine spoil drill cuttings and the liquid IDW are provided in **Appendix M**. Based on laboratory TCLP metals concentrations, flashpoint measurements, and pH values, the results indicate that both the mine spoil and liquid IDW do not exhibit hazardous waste characteristics and are therefore classified as non-hazardous. BREC will dispose of the IDW following waste profiling based on the characterization sampling results.

3.7 Groundwater Occurrence

Groundwater level data was collected from newly installed monitoring wells on September 19, 2025; however, all monitoring wells may not have been at a static condition. Additional groundwater level data was collected by BREC from both the existing and newly installed monitoring wells on October 30, 2025. Groundwater levels were measured using a decontaminated, battery-operated, electronic water level probe. Groundwater depth and elevation data are provided in **Table 2**.

3.8 Estimated Vertical Hydraulic Gradient

Vertical hydraulic gradients can be estimated using hydrologic data obtained from paired/clustered monitoring wells. Two newly installed clustered well pairs containing groundwater include Monitoring Wells MW-115a and MW-115, and MW-119a and MW-119.

The estimated vertical groundwater gradient is calculated as follows:

$$\frac{\textbf{Groundwater Elevation (shallow well) – Groundwater Elevation (deep well)}}{\textbf{Midpoint of Screen Elevation (shallow well) – Midpoint of Screen Elevation (deep well)}}$$

* A positive value identifies a downward gradient, while a negative value identifies an upward gradient.

The estimated vertical hydraulic gradients are provided in **Table 3** and summarized below.

Estimated Vertical Hydraulic Gradients Summary

Monitoring Well Pair	Calculated Vertical Gradient (feet/foot)	Vertical Gradient
MW-105B/105R	0.0009	Downward
MW-110A/110	-0.0256	Upward
MW-115A/115	0.1176	Downward
MW-119A/119	0.8277	Downard

3.9 In-Situ Hydraulic Conductivity Testing

In-situ hydraulic conductivity testing ("slug test") was performed on most newly installed monitoring wells, following well development, except of Monitoring Well MW-115A (installed dry; water level not at static during well developments). The slug test procedure was conducted using mechanical slug testing methods with a vented pressure transducer.

Slug test data was analyzed using AQTESOLV® computer software, incorporating field data collected from in-situ hydraulic conductivity tests performed at each well. Hydraulic conductivity estimates were calculated using the Bouwer and Rice (1976) and Hvorslev (1951) methods, appropriate for unconfined and semi-confined aquifer conditions. For the high-permeability mine spoil wells that exhibited oscillatory (underdamped) responses during slug testing, the Springer-Gelhar (1991) and Bulter (1998 and 2002) methods were applied to analyze the slug test results. In select monitoring wells showing overdamped responses, the Kansas Geological Survey Model developed by Hyder et. al. (1994), was used for analysis.

The computed hydraulic conductivity results, along with time vs. displacement plots, are provided in **Appendix N**. The calculated hydraulic conductivities from the slug tests are summarized in **Table 4**, alongside results from previous tests conducted at existing monitoring wells, as further outlined below.

Estimated Horizontal Hydraulic Conductivity Summary

Lithologic Unit	Minimum K (cm/sec)	Maximum K (cm/sec)	Average K (cm/sec)	Geometric Mean K (cm/sec)
Alluvial Clay	$2.52x10^{-5}$	$2.87x10^{-5}$	$2.70x10^{-5}$	$2.69x10^{-5}$
Alluvial Sand	$2.34x10^{-3}$	$2.53x10^{-3}$	$2.94x10^{-3}$	$2.88x10^{-3}$

Mine Spoils	$5.19x10^{-4}$	$2.92x10^{-1}$	$9.31x10^{-2}$	$3.18x10^{-2}$
Shale (Carbonaceous)	$4.42x10^{-4}$	$9.95x10^{-4}$	$7.18x10^{-4}$	$6.63x10^{-4}$
Sandstone	$4.77x10^{-6}$	$3.61x10^{-5}$	$1.93x10^{-5}$	$1.74x10^{-5}$

cm/sec – centimeters per second

K – hydraulic conductivity

3.10 Groundwater Monitoring Program

Evaluation of the newly installed groundwater monitoring wells for flow direction relative to the established monitoring network (compliance and characterization wells) will be conducted once static water level conditions are achieved. This assessment will help determine whether each new monitoring well serves a characterization purpose or is intended solely for water level monitoring.

4.0 References

AECOM, 2019, *Monitoring Well Construction Progress Report CCR Monitoring Program, Phase II Landfill, D.B. Wilson Generating Station, Ohio County, Kentucky, Agency Interest No. 3319, Application I.D. No. AIN20140001*. June 25th and revised December 17th.

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Burns & McDonnell, 2025b. *Safety & Health Program, Big Rivers Electric Corporation., D.B. Wilson Station*. August 2025.

Butler, J.J., Jr., 2002. A simple correction for slug tests in small-diameter wells, Ground Water, vo. 40, No. 3, pgs. 303-307.

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Goudarzi, Gus H., 1969, Geologic Map of the Equality Quadrangle, Western Kentucky, Kentucky Geological Survey, GQ-815.

Hyder, Z., Butler, J.J. Jr., McElwee, C.D., and Liu, W., 1994, Slug Tests in Partially Penetrating Wells, Water Resources Research, Vol. 30, No. 11, pgs. 2945-2957.

KAR, Title 401 Energy and Environmental Cabinet, Department for Environmental Protection, Chapter 6 Water Wells, Section 350, *Monitoring Well Construction Practices and Standards* (401 KAR 6:350).

KAR, Title 401 Energy and Environmental Cabinet, Department for Environmental Protection, Chapter 45 Special Waste Section, Section 160, *Surface and Groundwater Monitoring and Corrective Action for Special Waste Sites or Facilities* (401 KAR 45:160).

KDEP, DWM, 2025a. Solid Waste Permit #: SW09200004, Big Rivers Electric Corp – DB Wilson Station Landfill, Agency Interest ID #: 3319, Permit Issuance Date: January 21, 2025.

KDEP DWM, 2025b. Re: Groundwater Monitoring Plan Modification, Technical Notice of Deficiency (NOD) No. 2, Big Rivers Electric Corporation D.B. Wilson Station, Agency Interest No. 3319, Application I.D. No. APE20220005, Ohio County. March 12, 2025.

Springer, R.K., and Gelhar, L.W., 1991. *Characterization of Large-Scale Aquifer Heterogeneity in Glacial Outwash by Analysis of Slug Tests with Oscillatory Response*, Cape Cod, Massachusetts, U.S. Geological Survey, Water Resources Investigation Report 91-4034, pg. 36-40.

Figures

LEGEND

- Active Phase II CCR Landfill
- Inactive Phase I Landfill
- Property Boundary
- Elk Creek

NOTES

1. Boundary lines approximate.

BASEMAP: Nearmap 2015

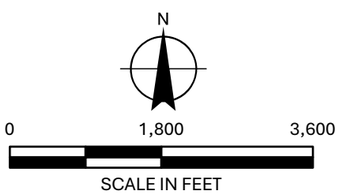
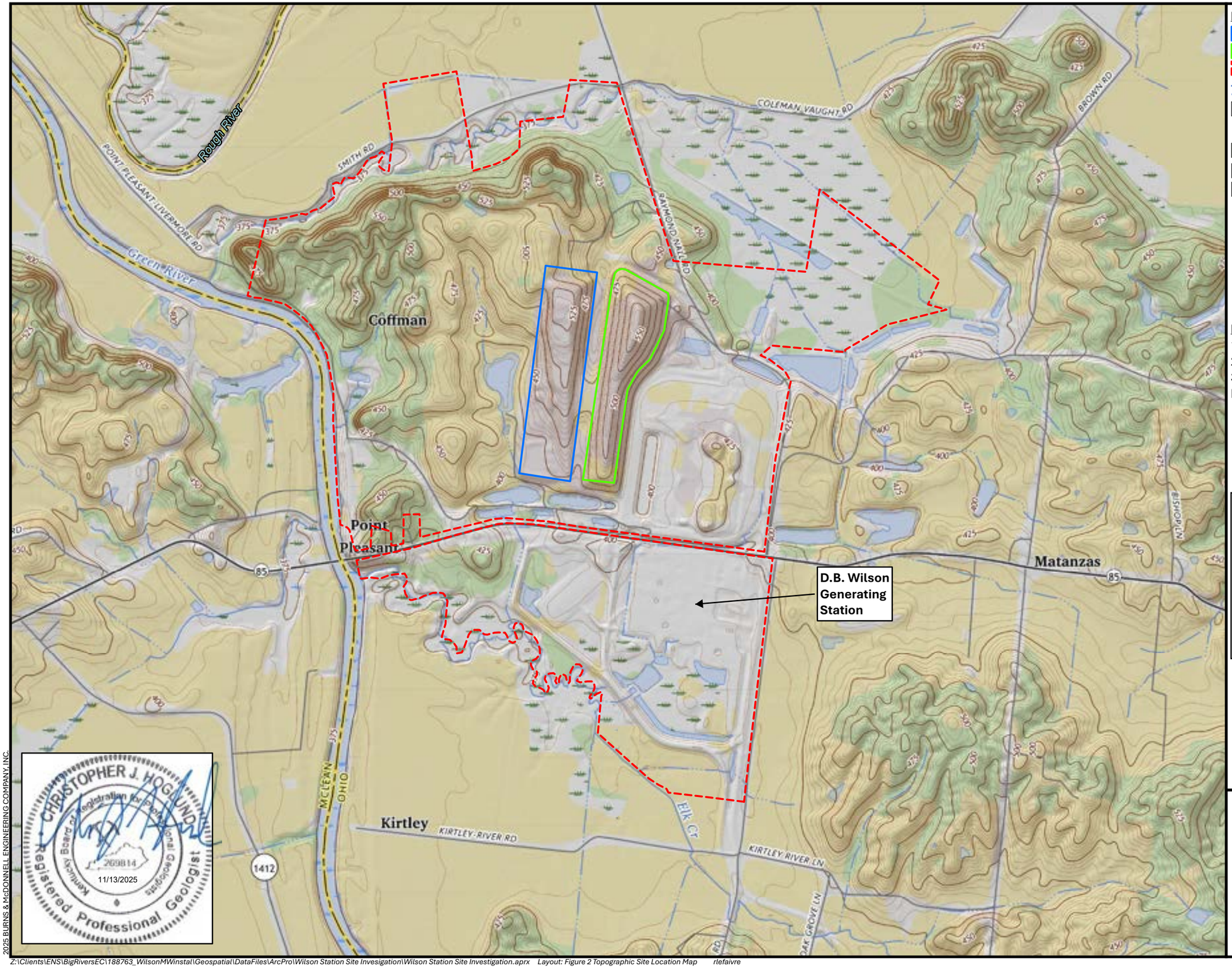


Figure 1
Aerial Site Location Map
Big Rivers Electric Company
Ohio County, Kentucky

BURNS McDONNELL

2025 BURNS & McDONNELL ENGINEERING COMPANY, INC.



LEGEND

- Active Phase II CCR Landfill
- Inactive Phase I Landfill
- Property Boundary
- Intermittent Stream
- Marsh or Swamp
- Perennial Lake/Pond
- Woodland
- Built-up Area

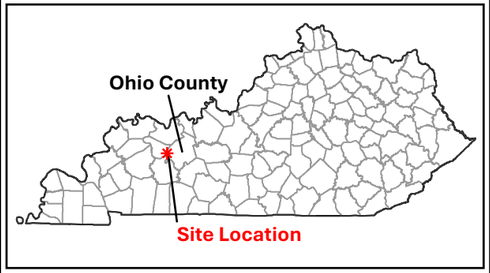
ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
State Route	

NOTES

1. Boundary lines approximate.
2. Contour intervals in 5 feet.
3. Elevations in North American Vertical Datum 1988.

BASEMAP: Nearmap 2015



N

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SCALE IN FEET

CHRISTOPHER J. HOGLUND
Kentucky Board of Registration for Professional Geologists
269814
11/13/2025
Registered Professional Geologist

Figure 2
Topographic Site Location Map
Big Rivers Electric Company
Ohio County, Kentucky

BURNS McDONNELL

2025 BURNS & McDONNELL ENGINEERING COMPANY, INC.

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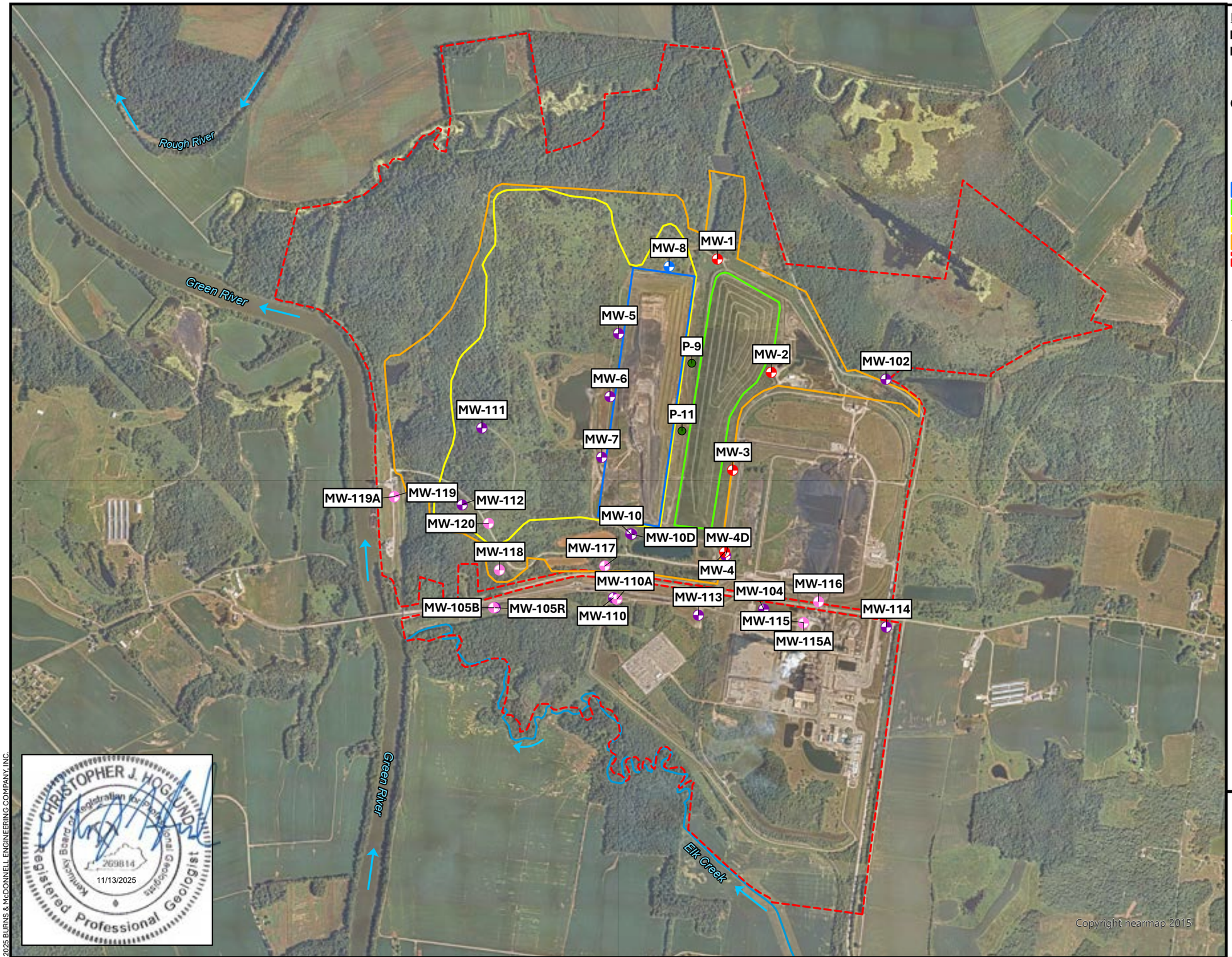
Source: USGS 7.5-Minute Topo, Kentucky 2025. Adjoining Quadrangles: Glenville, Utica, Livermore, and Equality.



LEGEND

Phase I Landfill Permitted Compliance Monitoring Wells

- Downgradient Monitoring Well
- Upgradient Monitoring Well

Other Monitoring Wells

- Newly Installed Monitoring Well
- Monitoring Well (Screening and Water Level Purposes)
- Piezometer (Water Level Only)
- Active Phase II CCR Landfill
- Inactive Phase I Landfill
- Planned CCR Phase II Landfill Area
- KAR Permit Area
- Property Boundary
- Surface Water Flow Direction
- Elk Creek

NOTES

1. Boundary lines approximate.

BASEMAP: Nearmap 2015

N

0 1,500 3,000

SCALE IN FEET

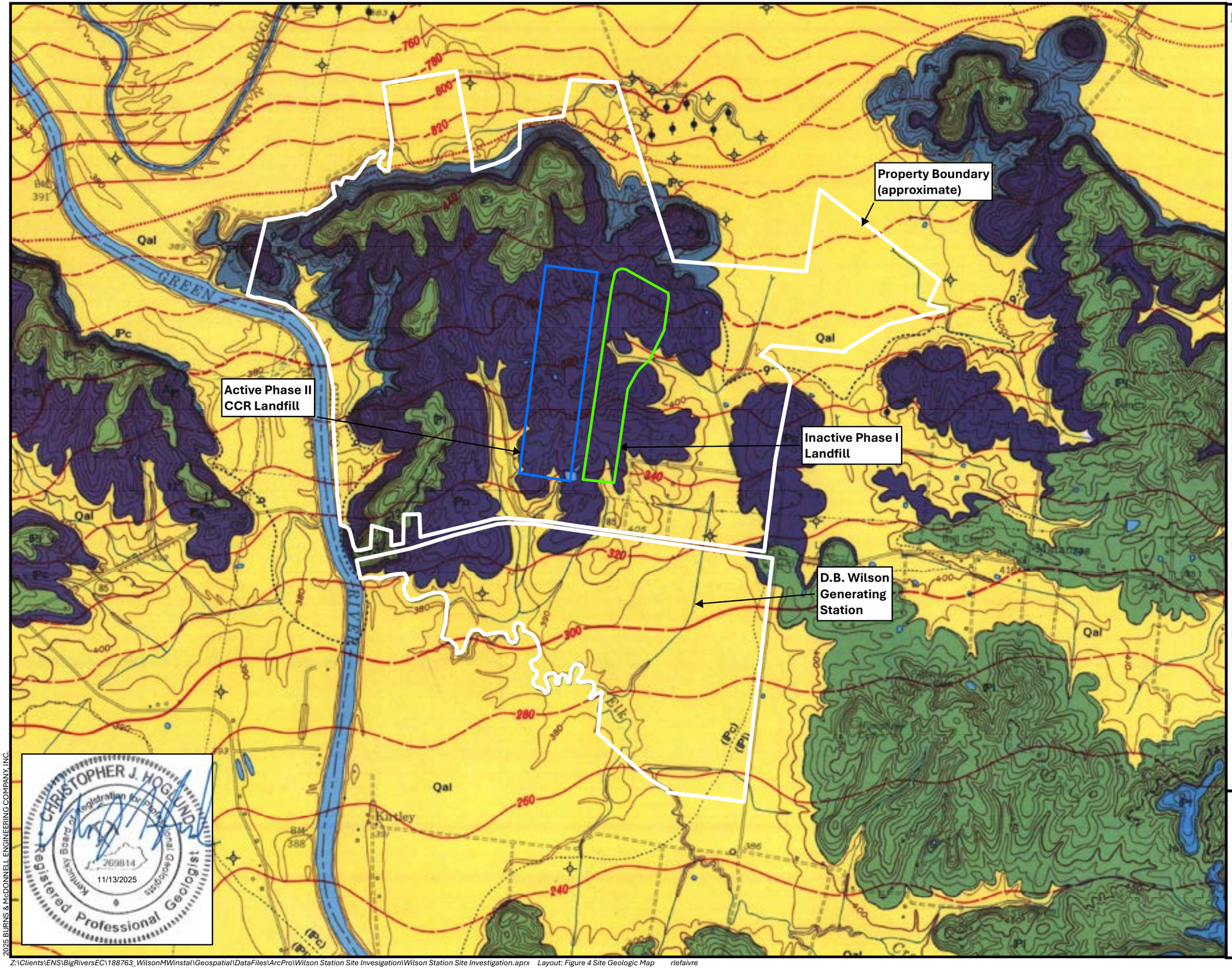
Figure 3
Groundwater Monitoring Network
Big Rivers Electric Company
Ohio County, Kentucky

BURNS McDONNELL

CHRISTOPHER J. HOGLUND
Kentucky Board of Registration for Professional Geologists
269814
11/13/2025
Registered Professional Geologist

2025 BURNS & McDONNELL ENGINEERING COMPANY, INC.

Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstall\Geospatial\DataFiles\ArcPro\Wilson Station Site Invesigation\Wilson Station Site Investigation.aprx Layout: Figure 3 Groundwater Monitoring Network rlefaivre



LEGEND

QUATERNARY

Qal — Alluvium

Qt — Terrace deposits

PENNSYLVANIAN

Upper Pennsylvanian / Middle Pennsylvanian

Lisman and Carbondale Formations

15, No. 15 coal bed
14a, No. 14a coal bed
ls, limestone marker bed
14, No. 14 coal bed
12, No. 12 coal bed
11, No. 11 coal bed
9, No. 9 coal bed
c, unnamed coal bed

Tradewater Formation

m, chert marker bed

CARBONIFEROUS

Figure 4
Site Geologic Map
Big Rivers Electric Company
Ohio County, Kentucky

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269814
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Registered Professional Geologist

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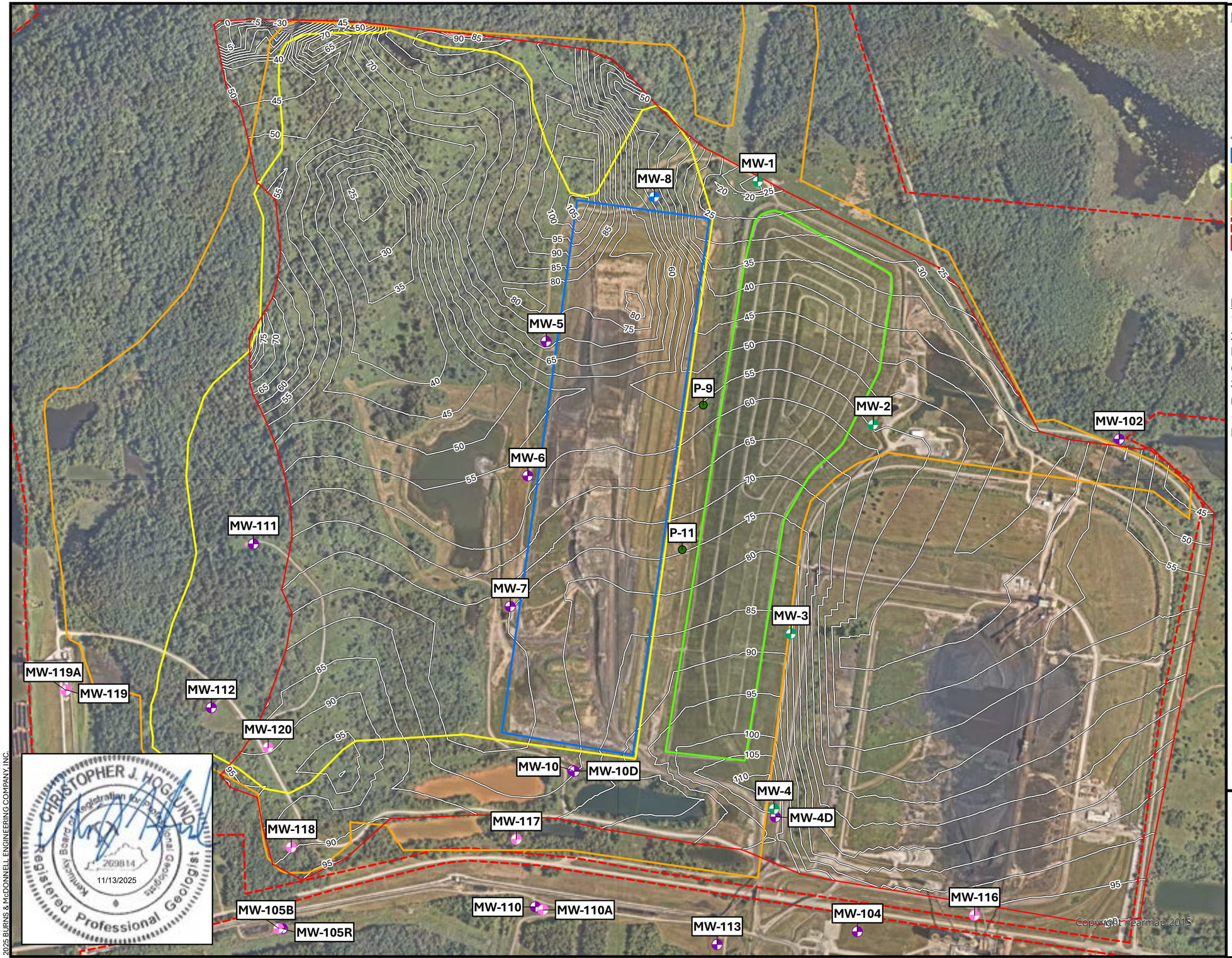
Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstall\Geospatial\DataFiles\ArcPro\Wilson Station Site Invesigation\Wilson Station Site Investigation.aprx Layout: Figure 4 Site Geologic Map rlefaivre

Source: Geologic Map of the Equality Quadrangle, Western Kentucky. Goudarzi, D.H., 1969. U.S. Geological Survey. Geologic Quadrangle Map GQ-815.



LEGEND

- Phase I Landfill Downgradient Compliance Well
- Upgradient Monitoring Well
- Newly Installed Monitoring Well
- Characterization Monitoring Well
- Piezometer (Water Level Only)
- Thickness of Mine Spoils (5')
- Active Phase II CCR Landfill
- Planned CCR Phase 2 Landfill Area
- Closed Phase I Special Waste Landfill
- KAR Permit Area
- Property Boundary
- Interpreted Extent of Mine
- Surface Water Flow Direction

NOTES

1. Boundary lines approximate.
2. Mine spoil isopach contour lines obtained from Figure 4 Mine Spoil Isopach Map in the *2020. Groundwater Assessment Plan* (AECOM, 2020).
3. Monitoring well MW-118 observed to be outside mine spoils footprint during drilling.

BASEMAP: Nearmap 2015

N

0 700 1,400

SCALE IN FEET

Figure 5
Mine Spoil Isopach Map
Big Rivers Electric Company
Ohio County, Kentucky

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CHRISTOPHER J. HOGLUND
Registered Professional Geologist
Kentucky Board of Registration for Professional Geologists
269814
11/13/2025

2025 BURNS & McDONNELL ENGINEERING COMPANY, INC.

Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstall\Geospatial\DataFiles\ArcPro\Wilson Station Site Invesigation\Wilson Station Site Investigation.aprx Layout: Figure 5 Mine Spoil Isopach Map rlefaivre

Tables

Table 1
Summary of Monitoring Well Construction Details
Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Well No.		Location* Lat	Long	Reference Elevation* TOIC (feet, NAD27)	GS (feet, NAD27)	Casing Length (feet, TOIC)	Size / Type (ID / Material)	Filter Pack Interval (feet, NAD27) Top	Bottom	Screened Interval (feet, NAD27) Top	Bottom	Bottom of Boring (feet, GS)
Phase I Landfill Monitoring Wells												
MW-1 (8002-9621)	U	37.4667	-87.0852	443.89	442.31	36.29	4 inch / PVC	419.6	407.6	417.6	407.6	36
MW-2 (8002-9622)	D	37.4618	-87.0820	417.11	414.60	36.01	4 inch / PVC	393.3	381.1	391.1	381.1	36
MW-3 (8002-9623)	D	37.4576	-87.0845	411.12	408.19	36.22	4 inch / PVC	387.2	374.9	384.9	374.9	36
MW-4 (8002-9624)	D	37.4546	-87.0850	408.82	406.55	31.32	4 inch / PVC	389.6	377.5	387.5	377.5	31
Phase II Landfill Monitoring Wells												
MW-5 (8005-3477)	D	37.4638	-87.0910	469.14	467.42	75.00	2 inch / PVC	404.92	391.42	402.92	392.92	76
MW-6 (8005-3476)	D	37.4614	-87.0910	433.06	431.12	53.50	2 inch / PVC	390.42	377.12	388.12	378.12	54
MW-7 (8005-3479)	D	37.4584	-87.0913	426.14	424.08	50.00	2 inch / PVC	386.58	373.18	384.58	374.58	50.9
MW-8 (8005-3475)	U / B	37.4682	-87.0883	471.60	470.01	63.46	2 inch / PVC	419.53	405.96	417.05	407.05	64.05
MW-10 (8005-3478)	D	37.4544	-87.0902	398.91	396.91	22.42	2 inch / PVC	387.16	373.83	384.99	374.99	23.08
Characterization Wells (Screening Use Only)												
MW-4D (8007-4811)	D / C	37.4542	-87.0851	410.02	407.03	96.36	2 inch / PVC	326.03	313.03	324.03	314.03	111
MW-102 (8007-2995)	D / C	37.4613	-87.0757	399.71	396.46	39.25	2 inch / PVC	372.46	360.46	370.46	360.46	36
MW-104 (8007-2994)	D / C	37.4517	-87.0826	392.87	389.76	43.43	2 inch / PVC	361.76	349.26	359.76	349.76	40
MW-105 (8007-2992)**	D / C	37.4516	-87.0973	396.74	393.56	63.31	2 inch / PVC	366.56	333.56	343.56	333.56	60
MW-105R (8007-1175)	U / C	37.4516	-87.0972	397.13	394.11	38.69	2 inch / PVC	371.11	357.94	368.67	358.67	35.33
MW-110 (8007-2996)	D / C	37.4521	-87.0907	393.54	390.56	42.76	2 inch / PVC	362.56	350.56	360.56	350.56	76 / 40
MW-111 (8007-8615)	D / C	37.4593	-87.0982	466.06	463.58	98.48	2 inch / PVC	379.81	367.08	377.81	367.81	105
MW-112 (8007-8614)	D / C	37.4559	-87.0990	403.82	401.15	54.67	2 inch / PVC	361.38	348.65	359.38	349.38	56
MW-113 (8007-1174)	U / C	37.4514	-87.0862	411.61	408.66	57.95	2 inch / PVC	365.89	349.99	363.89	353.89	94
MW-114 (8007-8613)	U / C	37.4510	-87.0760	404.18	401.46	50.72	2 inch / PVC	365.69	351.46	363.69	353.69	56
MW-10D (8007-8616)	D / C	37.4548	-87.0899	399.00	396.27	77.73	2 inch / PVC	333.50	320.77	331.50	321.50	77
Water Levels Only												
P-9 (8005-3480)	water level only	37.4622	-87.0867	432.37	429.19	38.70	2 inch / PVC	402.99	389.99	400.99	390.99	39.2
P-11 (8005-3472)	water level only	37.4593	-87.0872	446.55	444.03	68.60	2 inch / PVC	388.43	374.90	385.93	375.93	69.1

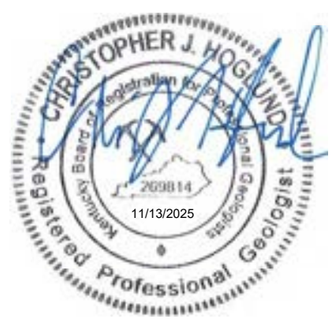

Table 1
Summary of Monitoring Well Construction Details
Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Well No.		Location* Lat	Long	Reference Elevation* TOIC (feet, NAD27)	GS (feet, NAD27)	Casing Length (feet, TOIC)	Size / Type (ID / Material)	Filter Pack Interval (feet, NAD27) Top	Bottom	Screened Interval (feet, NAD27) Top	Bottom	Bottom of Boring (feet, GS)
2025 Newly Installed Monitoring Wells												
MW-105B (8008-0536)	D	37.4516	-87.0973	396.72	393.72	26.81	2 inch / PVC	382.72	369.41	380.16	370.16	28.3
MW-110A (8008-0537)	D	37.4521	-87.0906	393.82	390.53	24.40	2 inch / PVC	381.53	368.92	379.67	369.67	25.0
MW-115A (8008-0545)	D	37.4511	-87.0805	392.79	389.95	22.69	2 inch / PVC	382.95	369.60	380.35	370.35	20.4
MW-115 (8008-0544)	D	37.4512	-87.0805	392.76	389.86	47.40	2 inch / PVC	357.86	344.86	355.61	345.61	45.0
MW-116 (8008-0543)	D	37.4521	-87.0797	412.37	409.31	33.91	2 inch / PVC	391.31	377.46	388.71	378.71	45.0
MW-117 (8008-0542)	D	37.4535	-87.0913	394.54	391.55	27.53	2 inch / PVC	379.55	366.02	377.27	367.27	25.5
MW-118 (8008-0541)	D	37.4532	-87.0970	408.57	405.35	37.93	2 inch / PVC	383.35	370.14	380.89	370.89	41.0
MW-119A (8008-0539)	D	37.4563	-87.1028	395.65	392.55	48.08	2 inch / PVC	360.55	347.07	357.82	347.82	45.5
MW-119 (8008-0538)	D	37.4564	-87.1028	395.57	392.67	69.30	2 inch / PVC	338.67	325.77	336.52	326.52	70.0
MW-120 (8008-0540)	D	37.4551	-87.0976	421.28	418.22	47.56	2 inch / PVC	385.72	373.22	383.97	373.97	45.0

Notes:

*Reference elevation of monitoring wells surveyed by Associated Engineers, Inc., Madisonville, Kentucky June 2015, November 2018, and January 2022, October 2025.

*Survey coordinates were based on the Kentucky State Plane, Kentucky Southern Zone, NAD27 datum.

** Monitoring Well MW-105 was abandoned and replaced by Monitoring Well MW-105R.

PVC = polyvinyl chloride

ID = internal diameter

TOIC = top of internal casing, or measured from (below) TOIC

GS = ground surface, or measured from (below) GS

U / B = upgradient / background

D = downgradient

C = characterization

Table 2
Summary of Groundwater Depths and Elevations
Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Monitoring Well	Well Purpose	GS Elevation (ft amsl)	TOC Elevation (ft amsl)	9/19/2025 DTW (ft bTOC)	9/19/2025 GW Elev. (ft amsl)	10/30/2025 DTW (ft bTOC)	10/30/2025 GW Elev. (ft amsl)
Mine Spoils							
MW-1	Ph1 LF Compliance	442.31	443.89	NM	NM	18.82	425.07
MW-2	Ph1 LF Compliance	414.60	417.11	NM	NM	18.28	398.83
MW-3	Ph1 LF Compliance	408.19	411.12	NM	NM	24.57	386.55
MW-4	Ph1 LF Compliance	406.55	408.82	NM	NM	22.99	385.83
MW-4D	Chracterization	407.03	410.02	NM	NM	23.98	386.04
MW-5	Ph2 LF Compliance	467.42	469.14	NM	NM	56.31	412.83
MW-6	Ph2 LF Compliance	431.12	433.06	NM	NM	42.04	391.02
MW-7	Ph2 LF Compliance	424.08	426.14	NM	NM	39.99	386.15
MW-8	Upgradient Well	470.01	471.60	NM	NM	44.75	426.85
MW-10	Ph2 LF Compliance	396.91	398.91	NM	NM	13.36	385.55
MW-10D	Chracterization	396.27	399.00	NM	NM	80.93	318.07
MW-111	Chracterization	463.58	466.06	NM	NM	13.48	452.58
MW-112	Chracterization	401.15	403.82	NM	NM	18.40	385.42
MW-116	TBD	409.31	412.37	17.77	394.60	17.46	394.91
MW-120	TBD	418.22	421.28	36.21	385.07	35.98	385.30
P-9	Water Level Only	429.19	432.37	NM	NM	22.54	409.83
P-11	Water Level Only	444.03	446.55	NM	NM	60.58	385.97
Sandstone							
MW-104	Chracterization	389.76	392.87	NM	NM	7.48	385.39
MW-105B	TBD	393.72	396.72	9.36	387.36	10.48	386.24
MW-105R	Chracterization	394.11	397.13	NM	NM	10.90	386.23
MW-110	Chracterization	390.56	393.54	NM	NM	9.48	384.06
MW-113	Chracterization	408.66	411.61	NM	NM	22.26	389.35
MW-114	Chracterization	401.46	404.18	NM	NM	14.37	389.81
MW-118	TBD	405.35	408.57	22.09	386.48	22.36	386.21
Shale							
MW-115	TBD	389.86	392.76	10.66	382.10	10.43	382.33
MW-117	TBD	391.55	394.54	13.66	380.88	12.26	382.28
Alluvium Clay							
MW-102	Chracterization	396.46	399.71	NM	NM	11.14	388.57
MW-110A	TBD	390.53	393.82	11.42	382.40	10.25	383.57
MW-115A	TBD	389.95	392.79	20.98	371.81	7.55	385.24
MW-119A	TBD	392.55	395.65	13.59	382.06	13.15	382.50
Alluvium Sand							
MW-119	TBD	392.67	395.57	32.77	362.80	30.70	364.87

Notes:
amsl = above mean sea level
bTOC = below top of casing
DTW = depth to water
Elev. = elevation
ft = feet
GS = ground surface
GW = groundwater
LF = landfill
NM = not measured
Ph1 = phase I
Ph2 = phase II
TBD = to be determined
TOC = top of casing

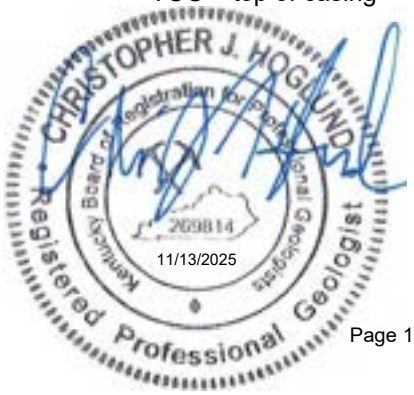

Table 3
Estimated Vertical Hydraulic Gradients
Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Well Cluster	Total Well Depth (feet bTOC)	Well Screen Elevation			Screened Geologic Formation	October 30, 2025				
		Top (ft, NAVD88)	Midpoint (ft, NAVD88)	Bottom (ft, NAVD88)		Water Depth (ft bTOC)	Water Elevation (ft amsl)	Difference in Water Elevation (ft)	Vertical Gradient (ft/ft)	
MW-105B	26.81	380.16	375.16	370.16	Sandstone	10.48	386.24	0.01	0.0009	Downward
MW-105R	38.69	368.67	363.67	358.67	Sandstone	10.90	386.23			
MW-110A	24.4	379.67	374.67	369.67	Alluvium (Clay)	10.25	383.57	0.49	-0.0256	Upward
MW-110	42.76	360.56	355.56	350.56	Sandstone	9.48	384.06			
MW-115A	22.69	380.35	375.35	370.35	Alluvium (Clay)	7.55	385.24	2.91	0.1176	Downward
MW-115	42.20	355.61	350.61	345.61	Shale	10.43	382.33			
MW-119A	48.08	357.82	352.82	347.82	Alluvium (Clay)	13.15	382.50	17.63	0.8277	Downward
MW-119	69.30	336.52	331.52	326.52	Alluvium (Sand)	30.70	364.87			

$$\text{Vertical Gradient (ft/ft)} = \frac{\text{(Groundwater Elevation of Shallow Well - Groundwater Elevation of Deep Well)}}{\text{(Screen Midpoint Elevation (Shallow Well) - Screen Midpoint Elevation (Deep Well)}}$$

amsl - above mean sea level (North American Vertical Datum 1988 [NAVD88])
bTOC - below top of casing
ft - feet

Notes:

1. Positive vertical gradient value identifies a downward gradient, while a negative value identifies an upward gradient.

Table 4
Estimated Hydraulic Conductivity
Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Monitoring Well ID	Date	Screened Material	Slug Test Method	Test No.	Estimated Hydraulic Conductivity					Average Estimated Hydraulic Conductivity	
					Bouwer-Rice	Hvorslev	KGS	Springer-Gelhar	Butler		
					cm/s	*cm/s*	*cm/s*	*cm/s*	*cm/s*	*cm/s*	*ft/day*
Mine Spoil Monitoring Wells (set at base of mine spoils)											
MW-10D (8007-8616)	1/12/2022	Mine spoils consisting of intermixed weathered sandstone and shale (sand-cobble size). Bottom 0.8' in shale.	Slug In: Falling Head	1	--	--	--	1.65E-01	--	8.92E-02	2.53E+02
			Slug Out: Rising Head	1	--	--	--	1.30E-02	--		
MW-111 (8007-8615)	1/12/2022	Mine spoils consisting of intermixed weathered sandstone and shale (sand-cobble size). Bottom 0.8' in shale.	Slug In: Falling Head	1	--	--	--	2.92E-01	--	1.55E-01	4.38E+02
			Slug Out: Rising Head	1	--	--	--	1.71E-02	--		
MW-112 (8007-8614)	1/11/2022	Mine spoils consisting of intermixed weathered sandstone and shale (sand-cobble size). Bottom 0.8' in black shale.	Slug In: Falling Head	1	--	--	--	8.18E-02	--	1.21E-01	3.43E+02
			Slug Out: Rising Head	1	--	--	--	1.60E-01	--		
MW-116 (8008-0543)	9/18/2025	Mine spoils consisting of intermixed weathered sandstone and shale (sand-cobble size); shale/clay-rich. Bottom 1.75' in clay.	Slug Out: Rising Head	1	--	--	--	--	5.19E-04	5.19E-04	1.47E+00
MW-120 (8008-0540)	9/18/2025	Mine spoils consisting of intermixed weathered sandstone and shale (sand-cobble size). Underlying bedrock not encountered.	Slug Out: Rising Head	1	--	--	--	--	1.43E-02	1.43E-02	4.05E+01
Minimum					--	--	--	1.30E-02	5.19E-04	5.19E-04	1.47
Maximum					--	--	--	2.92E-01	1.43E-02	2.92E-01	828.57
Average					--	--	--	1.22E-01	7.40E-03	9.31E-02	263.77
Geometric Mean					--	--	--	7.21E-02	2.72E-03	3.18E-02	90.13

Table 4
Estimated Hydraulic Conductivity
Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Monitoring Well ID	Date	Screened Material	Slug Test Method	Test No.	Estimated Hydraulic Conductivity					Average Estimated Hydraulic Conductivity	
					Bouwer-Rice	Hvorslev	KGS	Springer-Gelhar	Butler		
					cm/s	*cm/s*	*cm/s*	*cm/s*	*cm/s*	*cm/s*	*ft/day*
Sandstone Monitoring Wells											
MW-105R (8007-1175)	1/4/2022	SANDSTONE, fine-grain, quartz-rich, light gray to gray, some iron staining, some pyrite mineralization. Bottom 1.5' with thin organic-rich lenticular bedding transitioning into black shale.	Slug In: Falling Head	1	9.71E-06	1.22E-05	--	--	--	1.57E-05	4.44E-02
			Slug Out: Rising Head	1	1.81E-05	2.27E-05	--	--	--		
MW-105B (8008-0536)	9/18/2025	SANDSTONE, fine to medium, grained, quartz-rich, micaceous, light gray to gray, with iron staining, fractures present.	Slug In: Falling Head	1	4.77E-06	--	--	--		4.77E-06	1.35E-02
MW-113 (8007-1174)	12/22/2021	SANDSTONE, fine-grain, quartz-rich, light gray to gray, some pyrite mineralization, trace organic laminae.	Slug In: Falling Head	1	2.00E-05	2.53E-05	--	--	--	2.75E-05	7.79E-02
			Slug Out: Rising Head	1	2.85E-05	3.61E-05	--	--	--		
MW-114 (8007-8613)	12/21/2021	SANDSTONE, fine-grain, quartz-rich, light gray to gray	Slug In: Falling Head	1	9.63E-06	1.06E-05	--	--	--	1.40E-05	3.96E-02
			Slug Out: Rising Head	1	1.69E-05	1.87E-05	--	--	--		
MW-117 (8008-0542)	9/18/2025	SANDSTONE, pale brown to yellowish brown, highly weathered and weak top, & some iron staining. Bottom 1-foot SHALE, black.	Slug In: Falling Head	1	2.00E-05	--	--	--	--	2.42E-05	6.87E-02
			Slug Out: Rising Head	1	2.85E-05	--	--	--	--		
MW-118 (8008-0541)	9/18/2025	SANDSTONE, light brownish gray to light gray, fine-grained, micaceous, trace-some iron staining, trace organics.	Slug In: Falling Head	1	2.85E-05	--	--	--	--	2.36E-05	6.69E-02
			Slug Out: Rising Head	1	--	--	1.87E-05	--	--		
Minimum					**4.77E-06**	**1.06E-05**	**1.87E-05**	**--**	**--**	**4.77E-06**	**1.35E-02**
Maximum					**2.85E-05**	**3.61E-05**	**1.87E-05**	**--**	**--**	**3.61E-05**	**0.10**
Average					**1.85E-05**	**2.09E-05**	**1.87E-05**	**--**	**--**	**1.93E-05**	**5.48E-02**
Geometric Mean					**1.62E-05**	**1.92E-05**	**1.87E-05**	**--**	**--**	**1.74E-05**	**4.92E-02**
Shale Monitoring Wells											
MW-115 (8008-0544)	9/18/2025	SHALE, light gray to black, carbonaceous toward top with thinly interbedded coal.	Slug In: Falling Head	1	--	--	4.42E-04	--	--	7.18E-04	2.04E+00
			Slug Out: Rising Head	1	--	--	9.95E-04	--	--		
Minimum					**--**	**--**	**4.42E-04**	**--**	**--**	**4.42E-04**	**1.25**
Maximum					**--**	**--**	**9.95E-04**	**--**	**--**	**9.95E-04**	**2.82**
Average					**--**	**--**	**7.18E-04**	**--**	**--**	**7.18E-04**	**2.04**
Geometric Mean					**--**	**--**	**6.63E-04**	**--**	**--**	**6.63E-04**	**1.88**

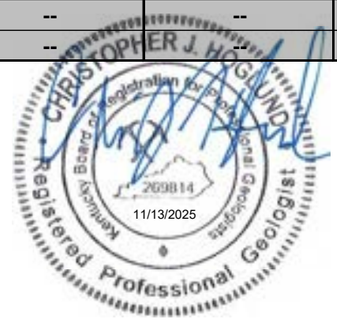

Table 4
Estimated Hydraulic Conductivity
Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Monitoring Well ID	Date	Screened Material	Slug Test Method	Test No.	Estimated Hydraulic Conductivity					Average Estimated Hydraulic Conductivity	
					Bouwer-Rice	Hvorslev	KGS	Springer-Gelhar	Butler		
					cm/s	*cm/s*	*cm/s*	*cm/s*	*cm/s*	*cm/s*	*ft/day*
Overburden (Alluvium Clay) Monitoring Wells											
MW-110A (8008-0537)	9/18/2025	CLAY, gray, trace to some silt, with iron staining/mottling, high plasticity, medium stiff to stiff, damp. Bottom 2-feet SAND (fine to medium) with some clay, reddish brown, trace to some plasticity, damp to WET.	Slug In: Falling Head	1	2.87E-05	--	--	--	--	2.70E-05	7.64E-02
			Slug Out: Rising Head	1	2.52E-05	--	--	--	--		
MW-119A (8008-0539)	9/18/2025	CLAY, light brownish gray to brown, medium-high plasticity, low stiffness, trace-some iron staining. Upper 3.5-feet CLAY with sand.	Slug Out: Falling Head	1	--	--	--	--	Collected data noisy/suspect and not used to calculate K-value	--	--
				Minimum	**2.52E-05**	**--**	**--**	**--**	**--**	**2.52E-05**	**7.14E-02**
				Maximum	**2.87E-05**	**--**	**--**	**--**	**--**	**2.87E-05**	**8.14E-02**
				Average	**2.70E-05**	**--**	**--**	**--**	**--**	**2.70E-05**	**7.64E-02**
				Geometric Mean	**2.69E-05**	**--**	**--**	**--**	**--**	**2.69E-05**	**7.63E-02**
Overburden (Alluvium Sand) Monitoring Wells											
MW-119 (8008-0538)	9/18/2025	SAND, gray to greenish gray, very fine to fine sand, trace-some silt, trace clay-rich zones	Slug In: Falling Head	1	--	--	2.34E-03	--	--	2.94E-03	8.32E+00
			Slug Out: Rising Head	1	3.53E-03	--	--	--	--		
				Minimum	**3.53E-03**	**--**	**2.34E-03**	**--**	**--**	**2.34E-03**	**6.64**
				Maximum	**3.53E-03**	**--**	**2.34E-03**	**--**	**--**	**3.53E-03**	**10.00**
				Average	**3.53E-03**	**--**	**2.34E-03**	**--**	**--**	**2.94E-03**	**8.32**
				Geometric Mean	**3.53E-03**	**--**	**2.34E-03**	**--**	**--**	**2.88E-03**	**8.15**

Notes:
1. Estimated hydraulic conductivity values were computed using AQTESOLV® (version 4.50 Professional) computer software by inputting the data gathered during slug tests. Hydraulic conductivity values were calculated using both the Bouwer and Rice (1976), Hvorslev (1951), and KGS (1994) methods for unconfined aquifer condition. Hvorslev (1951) solution used for slug test in unconfined aquifer when the well screen is below the water table. Springer-Gelhar (1991) and Butler (1998) solutions used for underdamped (oscillatory) slug test response in high hydraulic conductivity aquifer. KGS (1994) solution used for overdamped (non-oscillatory) slug test response.

cm/sec - centimeters per second
ft/day - feet per day
ID - identification
KGS - Kansas Geological Survey
No. - number

Appendix A – KDWM Work Plan Approval Letter

Andy Beshear
GOVERNOR

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
300 Sower Boulevard
Frankfort, Kentucky 40601
Phone: (502) 564-2150
Fax: 502-564-4245

Rebecca Goodman
SECRETARY

Anthony R. Hatton
COMMISSIONER

September 3, 2025

Mr. Joe Foster, D.B. Wilson Plant Manager
Big Rivers Electric Corporation
5663 State Route 85 West
Centertown, Kentucky 42328

Sent via e-mail only

RE: Groundwater Well Installation / Phase I Approval
Big Rivers Electric Corporation D. B. Wilson Station
Agency Interest No. 3319
Activity I.D. No. APE20250005
Ohio County

Dear Mr. Foster,

The Kentucky Division of Waste Management (DWM), Solid Waste Branch has reviewed the document entitled, *"Work Plan for Supplemental Groundwater Monitoring Well Installations"*, received August 25, 2025.

The proposed monitoring installation methods are approved with the following conditions, pursuant to 401 KAR 6:350 Section 12.

1) DWM recommends that all bedrock wells be examined with a downhole camera to facilitate proper characterization of groundwater flow in bedrock. Downhole camera examination is not necessary in wells screened in mine spoils.

2) In addition to a variance approval by the Kentucky Division of Water, drill lubricants should be approved by DWM pursuant to 401 KAR 6:350 Section 12.

3) For all wells deeper than fifty (50) feet that are equipped with ten-foot screens, the lowest centralizer may be placed at 14 feet above the bottom of the well. Centralizers shall be placed every ten (10) feet thereafter to the ground surface pursuant to 401 KAR 6:350 Section 7.

4) Filter pack sand shall consist of clean, well-rounded quartz sand that is specifically produced for use in the construction of monitoring wells pursuant to 401 KAR 6:350 Section 7.

5) The annular seal shall consist of pure, high-solids bentonite grout. Cement or cement-bentonite grout shall not be used pursuant to 401 KAR 6:350 Section 7.

6) The monitoring well boreholes shall be of sufficient diameter to allow the proper installation of the protective surface casings pursuant to 401 KAR 6:350 Section 8.

7) The protective surface casing shall be painted a highly visible color pursuant to 401 KAR 6:350 Section 8.

The subject well installation plan is approved with the above conditions pursuant to 401 KAR 6:350 Section 12. Please be advised that approval of this application is limited to the installation of wells MW-105B, MW-110A, MW-115, MW-115A, MW-116, and MW-117, MW-118, MW-119, and MW-119B only. Construction of the subject wells shall not deviate from any requirement of 401 KAR 6:350.

Big Rivers Electric Corporation shall submit a construction progress report (CPR) for the subject groundwater monitoring wells documenting compliance with the approved plan and 401 KAR 6:350 within 60 days of the completion of their installation.

Please note that the present correspondence does not constitute the approval of a groundwater monitoring system, and it does not constitute an approval of any other detail of the construction or abandonment of groundwater monitoring wells at the Big Rivers Electric Corporation D.B. Wilson Station, including any well's construction, location, depth, or suitability for monitoring any particular CCR unit, aquifer, or aquifer zone pursuant to 401 KAR Chapters 46.

Should you have any questions, or if you would like to schedule a meeting regarding this matter, please contact Todd Hendricks, P.G. at Todd.Hendricks@ky.gov.

Sincerely,

Signed by: Danny Anderson
Danny Anderson, P.E.
Manager, Solid Waste Branch

DA/er/ll/rth/oy/lkg

C: Mr. Joe Foster via e-mail joe.foster@bigrivers.com
Ms. Diana Merritt via e-mail diana.merritt@bigrivers.com

Appendix B – BREC 10-Day Notification Letter to KDWM

Docusign Envelope ID: 7EED30A4-C8A4-4F4F-AF8C-136D2DDD73F3

Big Rivers ELECTRIC CORPORATION

D.B. Wilson Station
5663 State Route 85 West
Centertown, KY 42328
www.bigrivers.com

August 19, 2025

Mr. Danny Anderson, P.E.
Manager, Solid Waste Branch
Kentucky Division of Waste Management
Kentucky Department for Environmental Protection
300 Sower Blvd.
Frankfort, KY 40601

Cc: Todd Hendricks, Geologist KY DWM (sent via email)

RE: Supplemental Groundwater Monitoring Well Installations
Big Rivers Electric Corporation - D.B. Wilson Station
Agency Interest No. 3319
Response to GWMP TNOD #2
Application I.D. No. APE20220005

Dear Mr. Anderson,

Big Rivers Electric Corporation (BREC) received Technical Notice of Deficiency (TNOD) No. 2 on March 12, 2025, regarding the modification to the Groundwater Monitoring Program (GWMP) submitted to the Kentucky Division of Waste Management (DWM) on July 14, 2024. In reference to Comment #3 of TNOD No. 2, DWM recommended the installation of additional groundwater monitoring wells to enhance characterization of groundwater flow in the southern and southwestern portions of the landfill area. In response, BREC submitted a revised GWMP and accompanying response letter dated July 24, 2025. The response indicated that BREC would evaluate the suggested well locations and incorporate them into a separate Monitoring Well Installation Plan, which will be submitted to DWM for review and approval.

BREC has contracted Burns & McDonnell to drill and install nine (9) new monitoring wells at the Wilson Station in accordance with 401 KAR 6:350. A Monitoring Well Installation Work Plan will be submitted shortly following this notification for DWM review and approval. Burns & McDonnell will be utilizing a Kentucky certified well driller Cascade Drilling LP (Cascade).

Docusign Envelope ID: 7EED30A4-C8A4-4F4F-AF8C-136D2DDD73F3

Cascade is scheduled to be onsite at the D.B. Wilson Station on September 2, 2025 with the work expected to continue through September 23, 2025. A Construction Progress Report (CPR) will be submitted within 45 days of the monitoring well installation activities In accordance with the permit conditions GSTR005.

Please contact Diana Merritt, Performance/Environmental Specialist at Diana.Merritt@bigrivers.com (or phone at 270-844-5008) if you have any questions regarding this submittal. We appreciate your attention to this matter

Sincerely,

Joe Foster, D.B. Wilson Plant Manager
Big Rivers Electric Corporation
D.B. Wilson Station

Appendix C – KDOW Monitoring Well Variance Forms

KENTUCKY MONITORING WELL VARIANCE REQUEST

Pursuant to 401 KAR 6:350 Section 1

Energy and Environment Cabinet, Division of Water, 300 Sower Boulevard, 3rd floor, Frankfort, KY 40601 502-564-3410

GENERAL INFORMATION

Requested By: **William Gordon**

Received By:

Driller Certification Number: **0492 - 0549** -00

Date of Request: 11-11-25

Drilling Company: **Cascade Drilling LP**

Time of Request:

WELL LOCATION

Quadrangle: **Equality** Code:

County: **Ohio** Code:

AI Number: **3319**

AKGWA Number: **8008 - 0537**

Latitude (dd): N **37.452053** Longitude: W **-87.090622**

WELL OWNER IDENTIFICATION

Well Owner: **Big Rivers Electric Corporation** Joe Foster

Telephone: **270 - 844 - 8089**

Address: **3663 State Rt. 85 W**

Email: **joe.foster@bigrivers.com**

City, State: **Centertown, KY**

Zip Code: **42328**

EFFECTIVE DATES

Well Construction Date: **September 3, 2025**

Well Must be Completed On or Before: **MW-110A**

REASON FOR VARIANCE

Attach All Supporting Documentation, 401KAR 6:350 Section 1(6)(a)

See Attached **MW-110A**

☐ Blanket Variance for monitoring well installed in <30 ft. unconsolidated materials

Applicable Regulation: **401 KAR 6:350**

Section: **Section 7 (4)**

WELL CHARACTERISTICS

Soil Thickness: **21.8** ft. Estimated ☐ Exact ☐

Depth to Bedrock: **21.8** ft. ☐ ☐

Water-Bearing Units: **8-21.8** ft. ☐ ☐

Type of Bedrock: **Well Screened in Clay Alluvium**

WELL CONSTRUCTION OR ABANDONMENT REQUIREMENTS

☐ The Division of Water is issuing you a onetime temporary water well variance as a certified monitoring well driller to plug a water well located at the following location:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well construction variance due to shallow water zone to be monitored at this site. This monitoring well construction variance is for approval of the shorter interval of the sand/filter packs and bentonite seals installed at:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well (construction or abandonment) variance due to

This variance is for approval of: **Used bentonite pellets as annular seal instead of high-solids bentonite grout slurry**

For wells installed at: **Wilson Landfill: MW-110A**

Please include a copy of this variance request with the plugging record you submit.

CASING AND SCREEN INFORMATION

From: **N/A** To:	Hole Diameter: **NA**	in.	Outer Casing Diameter: **NA**	in.	Material:
From: **+3.29 ft** To: **10.86 ft**	Hole Diameter: **6**	in.	Inner Casing Diameter: **2**	in.	Material: **Sch. 40 PVC**
From: **10.86 ft** To: **20.86 ft**	Hole Diameter: **6**	in.	Screen Diameter: **2**	in.	Material: **Sch. 40 PVC**

SEALING MATERIAL REQUIREMENTS FOR PLUGGING

Sealing Material Type:

From: To: Method:

From: To: Method:

ADDITIONAL REQUIREMENTS

Sketch Map **must be provided**:

See Attached

THIS VARIANCE IS NOT VALID UNLESS SIGNED BY THE CERTIFIED MONITORING WELL DRILLER AND THE WELL OWNER

DRILLER AFFIRMATION

I, the undersigned, agree to construct the above described well in accordance with all water well construction practices and standards established by the Kentucky Energy and Environment Cabinet, Department of Environmental Protection and in accordance with those conditions described in this variance request. I will be held financially responsible for remedial measures for this well if I fail to construct the well in compliance with the conditions established in this variance request.

Signature: [signature] Date: 11-11-25

DIVISION OF WATER AFFIRMATION

Signature: [signature] Date: 11/12/2025

WELL OWNER AFFIRMATION

I, the undersigned, understand the above described well is not in compliance with the water well construction practices and standards established by the Kentucky Energy and Environment Cabinet. I acknowledge that the driller has requested a variance to allow the well to be constructed according to the conditions described in this variance request. By signing below, I give my permission for the well to be constructed as described above. If this variance well is constructed to the specifications of this variance and results in degradation of groundwater quality, I will be financially responsible for remedial measures for this well, including plugging if necessary.

Signature: [signature] Date: 11-10-25

VARIANCE REQUEST SUPPLEMENTAL INFORMATION
Big Rivers Electric Corporation D.B. Wilson Station
Monitoring Well MW-110A (AKGWA #: 8008-0537)

Location of MW-110A (AKGWA #: 8008-0537)

Monitoring Well	Latitude	Longitude
MW-110A	37.452053	-87.090622

(Image Source: Google Earth, accessed September 23, 2025; image date February 2025)

Monitoring Well MW-110A is located near the central portion of Big Rivers Electric Corporation's D.B. Wilson Station, approximately 300 feet south of Kentucky Route 85, and 0.75 miles east of the Green River. This well is situated south of the coal conveyance system.

Monitoring Well MW-110A was advanced to a depth of 25 feet through native soil, encountering weathered sandstone at approximately 22 feet below ground surface (bgs). The well was completed with a bottom depth of 21.11 feet bgs, and a 10-foot screened interval spanning from 10.86 to 20.86 feet bgs. A sand filter pack was installed to a depth of 9 feet bgs, followed by a bentonite seal consisting of hydrated bentonite pellets placed to a depth of 7 feet bgs. Groundwater was observed at a depth of 8.13 feet bgs, corresponding to 11.42 feet below top of casing (btoc).

Reason For Variance:

An emergency variance was requested and verbally approved by the Kentucky Department of Waste Management (KDWM) on September 3, 2025, with confirmation provided via supporting email correspondence. The variance authorizes the use of bentonite pellets for the well's annular seal, deviating from the standard requirement of sealing material placed by a grout pipe (i.e., high-solids bentonite grout slurry) as outlined in *Title 401, Chapter 006, Regulation 350: Monitoring Well Construction Practices and Standards, Section 7(4), Sealing Materials*. This variance was allowed due to the minimal 5-foot thickness of the annular seal (2 to 7 feet bgs).

From 7 to 2 feet bgs, bentonite pellets were also placed for the annular seal above the bentonite seal. Bentonite pellets were carefully introduced into the borehole by gravity feed, poured slowly

from a bucket to promote even distribution around the annular space. The depth to the top of the bentonite was continuously monitored using a tape measure to confirm that bridging did not occur. The pellets were hydrated in 1-foot lifts using approximately 5 gallons of water per lift.

This approved variance and the associated construction details will be documented in the Monitoring Well Construction Progress Report, which will be submitted separately to KDWM.

Hoglund, Christopher

From: Hendricks, Todd (EEC) <todd.hendricks@ky.gov>
Sent: Wednesday, September 3, 2025 1:09 PM
To: Hoglund, Christopher
Subject: Re: BREC Wilson Station - Monitoring Well MW-110A Emergency Variance Request

Chris,

It is permissible to use bentonite pellets as an annular seal in lieu of bentonite grout for this well (MW-110A) in the manner proposed, as long as the pellets are emplaced carefully and measured with a weighted tape as they are emplaced to ensure that bridging has not occurred.

Pellets should be hydrated with potable water as they are emplaced.

This approval is well-specific, and contingent upon approval by the KY Division of Water.

If you have any more questions or concerns, feel free to ask.

Regards,

Todd Hendricks

From: Hoglund, Christopher <choglund@burnsmcd.com>
Sent: Wednesday, September 3, 2025 1:53 PM
To: Hendricks, Todd (EEC) <todd.hendricks@ky.gov>
Cc: Frasher, Joshua t <jtfrasher@burnsmcd.com>
Subject: BREC Wilson Station - Monitoring Well MW-110A Emergency Variance Request

Todd,

Per your call with Josh Frasher (BMcD field geologist), below is the new Monitoring Well MW-110A construction info. We are asking approval to use bentonite pellets hydrated in 1 foot lifts rather than the high-solids bentonite grout slurry for the annular seal above the bentonite seal. Based on the well construction info below, the remaining annulus is approximately 5 feet to allow for 2 foot of space for protective cover to be placed into concrete.

Monitoring Well ID: MW-110a
Approx. Location: 37.452118°, -87.091068°
Total drill depth: 25 ft bgs
Depth to bedrock: 22 ft bgs
Hydrated pellets: 22-25 ft bgs
Used to bring bottom of borehole up to set well in overburden, above top of bedrock.
Sand buffer: 21.5-22 ft bgs
screened interval 11.5-21.5ft bgs
Sand filter pack: 9-21.5 ft bgs
Extra half foot of sand used to ensure 2-ft over top of screen with endcap on bottom of well.
Bentonite pellet seal: 7-9 ft bgs
Annular Seal – requesting use of bentonite pellets: 2-7 ft bgs (5 ft thick)

Please contact me if any additional information is needed.

Thanks,

Chris Hoglund, PG*
Associate Geologist | Environmental Services Group
Burns & McDonnell
9450 Ward Parkway, Kansas City, MO 64114
O +1 816-800-9248 | M +1 785-317-1747 | E choglund@burnsmd.com
*Registered in: AL, FL, GA, IL, KS, KY, MO, NC, TN, TX, & WY

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KENTUCKY MONITORING WELL VARIANCE REQUEST

Pursuant to 401 KAR 6:350 Section 1

Energy and Environment Cabinet, Division of Water, 300 Sower Boulevard, 3rd floor, Frankfort, KY 40601 502-564-3410

GENERAL INFORMATION

Requested By: **William Gordon**

Received By:

Driller Certification Number: **0492 - 0549** -00

Date of Request: 11-11-25

Drilling Company: **Cascade Drilling LP**

Time of Request:

WELL LOCATION

Quadrangle: **Equality** Code:

County: **Ohio** Code:

AI Number: **3319**

AKGWA Number: **8008 . 0544**

Latitude (dd): N **37.451153** ° Longitude: W **-87.080492** °

WELL OWNER IDENTIFICATION

Well Owner: **Big Rivers Electric Corporation** Joe Foster

Telephone: **270 - 844 - 5009**

Address: **8843 State Rt. 85 W**

Email: **joe.foster@bigrivers.com**

City, State: **Centertown, KY**

Zip Code: **42328**

EFFECTIVE DATES

Well Construction Date: **September 16, 2025**

Well Must be Completed On or Before: **MW-115**

REASON FOR VARIANCE

Attach All Supporting Documentation, 401KAR 6:350 Section 1(5)(a)

See Attached **MW-115**

☐ Blanket Variance for monitoring well installed in <30 ft. unconsolidated materials

Applicable Regulation: **401 KAR 6:350** Section: **Section 8 (2)**

WELL CHARACTERISTICS

Soil Thickness: **30.0** ft. Estimated ☐ Exact ☐

Depth to Bedrock: **30.0** ft. ☐ ☐

Water-Bearing Units: **30-45** ft. ☐ ☐

Type of Bedrock: **Shale; Well Screened in Shale w/ Coal**

WELL CONSTRUCTION OR ABANDONMENT REQUIREMENTS

☐ The Division of Water is issuing you a onetime temporary water well variance as a certified monitoring well driller to plug a water well located at the following location:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well construction variance due to shallow water zone to be monitored at this site. This monitoring well construction variance is for approval of the shorter interval of the sand/filter packs and bentonite seals installed at:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well (construction or abandonment) variance due to

This variance is for approval of: **Using 6 bollards at 2-well cluster (MW-115 & 115A) instead of 8 bollards (4 bollards per well)**

For wells installed at: **Wilson Landfill: MW-115**

Please include a copy of this variance request with the plugging record you submit.

CASING AND SCREEN INFORMATION

From: **N/A**	To:	Hole Diameter: **NA**	in.	Outer Casing Diameter: **NA**	in. Material:
From: **+2.90 ft**	To: **34.25 ft**	Hole Diameter: **6**	in.	Inner Casing Diameter: **2**	in. Material: **Sch. 40 PVC**
From: **34.25 ft**	To: **44.25 ft**	Hole Diameter: **6**	in.	Screen Diameter: **2**	in. Material: **Sch. 40 PVC**

SEALING MATERIAL REQUIREMENTS FOR PLUGGING

Sealing Material Type:

From: To: Method:

From: To: Method:

ADDITIONAL REQUIREMENTS

Sketch Map **must be provided**:

See Attached

THIS VARIANCE IS NOT VALID UNLESS SIGNED BY THE CERTIFIED MONITORING WELL DRILLER AND THE WELL OWNER

DRILLER AFFIRMATION

I, the undersigned, agree to construct the above described well in accordance with all water well construction practices and standards established by the Kentucky Energy and Environment Cabinet, Department of Environmental Protection and in accordance with these conditions described in this variance request. I will be held financially responsible for remedial measures for this well if I fail to construct the well in compliance with the conditions established in this variance request.

Signature: W H S Date: 11-11-25

WELL OWNER AFFIRMATION

I, the undersigned, understand the above described well is not in compliance with the water well construction practices and standards established by the Kentucky Energy and Environment Cabinet. I acknowledge that the driller has requested a variance to allow the well to be constructed according to the conditions described in this variance request. By signing below, I give my permission for the well to be constructed as described above. If this variance well is constructed to the specifications of this variance and results in degradation of groundwater quality, I will be financially responsible for remedial measures for this well, including plugging if necessary.

Signature: Date: 11-10-25

DIVISION OF WATER AFFIRMATION

Signature: Date: 11/12/2025

KENTUCKY MONITORING WELL VARIANCE REQUEST

Pursuant to 401 KAR 6:350 Section 1

Energy and Environment Cabinet, Division of Water, 300 Sower Boulevard, 3rd floor, Frankfort, KY 40601 502-564-3410

GENERAL INFORMATION

Requested By: **William Gordon**

Received By:

Driller Certification Number: **0492 - 0549** -00

Date of Request: 11-11-25

Drilling Company: **Cascade Drilling LP**

Time of Request:

WELL LOCATION

Quadrangle: **Equality** Code:

County: **Ohio** Code:

AI Number: **3319**

AKGWA Number: **8008 - 0545**

Latitude (dd): N **37.451139** ° Longitude: W **-87.080494** °

WELL OWNER IDENTIFICATION

Well Owner: **Big Rivers Electric Corporation** Joe Foster

Telephone: 270 - 844 - 5009

Address: 5663 State Rt. 85 W

Email: joe.foster@bigrivers.com

City, State: Centertown, KY

Zip Code: 42328

EFFECTIVE DATES

Well Construction Date: **September 17, 2025**

Well Must be Completed On or Before: **MW-115A**

REASON FOR VARIANCE

Attach All Supporting Documentation, 401KAR 6:350 Section 1(6)(a)

See Attached **MW-115A**

☐ Blanket Variance for monitoring well installed in <30 ft. unconsolidated materials

Applicable Regulation: **401 KAR 6:350** Section: **Section 8 (2)**

WELL CHARACTERISTICS

		Estimated	Exact
Soil Thickness: **30.0**	ft.		
Depth to Bedrock: **30.0**	ft.	☐	☐
Water-Bearing Units: **10-30**	ft.	☐	☐

Type of Bedrock: **Shale; Well Screened in Alluvium Clay**

WELL CONSTRUCTION OR ABANDONMENT REQUIREMENTS

☐ The Division of Water is issuing you a onetime temporary water well variance as a certified monitoring well driller to plug a water well located at the following location:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well construction variance due to shallow water zone to be monitored at this site. This monitoring well construction variance is for approval of the shorter interval of the sand/filter packs and bentonite seals installed at:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temoorary monitoring well (construction or abandonment) variance due to

This variance is for approval of: **Using 6 bollards at 2-well cluster (MW-115 & 115A) instead of 8 bollards (4 bollards per well)**

For wells installed at: **Wilson Landfill: MW-115A**

Please include a copy of this variance request with the plugging record you submit.

CASING AND SCREEN INFORMATION

From: **N/A**	To:	Hole Diameter: **NA**	in.	Outer Casing Diameter: **NA**	in.	Material:	
From: **+2.84 ft**	To: **9.60 ft**	Hole Diameter: **6**	in.	Inner Casing Diameter: **2**	in.	Material:	**Sch. 40 PVC**
From: **9.60 ft**	To: **19.60 ft**	Hole Diameter: **6**	in.	Screen Diameter: **2**	in.	Material:	**Sch. 40 PVC**

SEALING MATERIAL REQUIREMENTS FOR PLUGGING

Sealing Material Type:

From: To: Method:

From: To: Method:

ADDITIONAL REQUIREMENTS

Sketch Map **must be provided**:

See Attached

THIS VARIANCE IS NOT VALID UNLESS SIGNED BY THE CERTIFIED MONITORING WELL DRILLER AND THE WELL OWNER

DRILLER AFFIRMATION

I, the undersigned, agree to construct the above described well in accordance with all water well construction practices and standards established by the Kentucky Energy and Environment Cabinet, Department of Environmental Protection and in accordance with those conditions described in this variance request. I will be held financially responsible for remedial measures for this well if I fail to construct the well in compliance with the conditions established in this variance request.

Signature: Date: 11-11-25

WELL OWNER AFFIRMATION

I, the undersigned, understand the above described well is not in compliance with the water well construction practices and standards established by the Kentucky Energy and Environment Cabinet. I acknowledge that the driller has requested a variance to allow the well to be constructed according to the conditions described in this variance request. By signing below, I give my permission for the well to be constructed as described above. If this variance well is constructed to the specifications of this variance and results in degradation of groundwater quality, I will be financially responsible for remedial measures for this well, including plugging if necessary.

DIVISION OF WATER AFFIRMATION

Signature: Date: 11/12/2025

Signature: Date: 11-10-25

VARIANCE REQUEST SUPPLEMENTAL INFORMATION
Big Rivers Electric Corporation D.B. Wilson Station
Monitoring Wells MW-115A and MW-115 (AKGWA #: 8008-0545/8008-0544)

Location of MW-115A and MW-115 (AKGWA #: 8008-0545/8008-0544)

Monitoring Well	Latitude	Longitude
MW-115	37.451153	-87.080492
MW-115A	37.451139	-87.080494

(Image Source: Google Earth, accessed September 23, 2025; image date September/2025)

Clustered Monitoring Wells MW-115a (shallow alluvium well) and MW-115 (deeper bedrock well) are located near the northwestern portion of Big Rivers Electric Corporation's D.B. Wilson Station, approximately 250 feet south of Kentucky Route 85, and 1.0 mile east of the Green River. These wells are situated south of the lime silos and northwest of Unit 1 solid waste thickener (northern unit).

Reason For Variance:

An emergency variance was requested and verbally approved by the Kentucky Department of Waste Management (KDWM) on September 17, 2025, with confirmation provided via supporting email correspondence. The variance authorizes the installation of six (6) bollards surrounding the newly clustered Monitoring Wells MW-115A and MW-115, deviating from the standard requirement of four (4) bollards per monitoring well as outlined in Title 401, Chapter 006, Regulation 350: Monitoring Well Construction Practices and Standards, Section 8(2), Bumper Guards.

Monitoring Wells MW-115A and MW-115 were installed approximately five feet apart, measured from the center of each well. Each well was constructed with a three-foot square concrete pad, leaving an approximate two-foot gap between the pads. Four bollards were positioned at the outer corners of each pad (outside the pad footprint), while the remaining two bollards were placed between the pads, aligned with the outer bollards and centered between the wells.

This approved variance and the associated construction details will be documented in the Monitoring Well Construction Progress Report, which will be submitted separately to KDWM.

Hoglund, Christopher

From: Hendricks, Todd (EEC) <todd.hendricks@ky.gov>
Sent: Wednesday, September 17, 2025 10:34 AM
To: Frasher, Joshua t; Hoglund, Christopher
Subject: RE: BREC Wilson Station MW-115 Monitoring Wells Variance Request

Josh,

I do not object to that approach for the MW-115 well pair.

This approval is for the MW-115 only, and does not apply to any other well or well pair.

Thanks,

Todd

From: Frasher, Joshua t <jtfrasher@burnsmcd.com>
Sent: Wednesday, September 17, 2025 9:47 AM
To: Hendricks, Todd (EEC) <todd.hendricks@ky.gov>; Hoglund, Christopher <choglund@burnsmcd.com>
Subject: BREC Wilson Station MW-115 Monitoring Wells Variance Request

Hi Todd,

As we discussed previously for the MW-119 pairing of monitoring wells we are seeking similar approval to install a total of 6 bollards for the MW-115 pairing of monitoring wells. The distance between each well from center to center is 5 feet. With 3ft x 3ft pads this allows for approximately 2 feet between each pad. There would be 4 bollards off the outside of each pad (but not within the pad). The remaining two bollards would be placed centered between the two pads and in line with the outer 4 bollards.

please let me know if you need any additional information.

Thanks,
Josh Frasher

KENTUCKY MONITORING WELL VARIANCE REQUEST

Pursuant to 401 KAR 6:350 Section 1

Energy and Environment Cabinet, Division of Water, 300 Sower Boulevard, 3rd floor, Frankfort, KY 40601 502-564-3410

GENERAL INFORMATION

Requested By: **William Gordon**

Received By:

Driller Certification Number: **0492 - 0549** -00

Date of Request: 11-11-25

Drilling Company: **Cascade Drilling LP**

Time of Request:

WELL LOCATION

Quadrangle: **Equality** Code:

County: **Ohio** Code:

AI Number: **3319**

AKGWA Number: **8008 . 0538**

Latitude (dd): N **37.456358** ° Longitude: W **-87.102764** °

WELL OWNER IDENTIFICATION

Well Owner: **Big Rivers Electric Corporation Joe Foster**

Telephone: **270 - 844 - 6089**

Address: **8663 State Rt. 85 W**

Email: **joe.foster@bigrivers.com**

City, State: **Centertown, KY**

Zip Code: **42328**

EFFECTIVE DATES

Well Construction Date: **September 5, 2025**

Well Must be Completed On or Before: **MW-119**

REASON FOR VARIANCE

Attach All Supporting Documentation, 401 KAR 6:350 Section 1(6)(a)

See Attached **MW-119**

☐ Blanket Variance for monitoring well installed in <30 ft. unconsolidated materials

Applicable Regulation: **401 KAR 6:350** Section: **Section 8 (2)**

WELL CHARACTERISTICS

		Estimated	Exact
Soil Thickness: **67.0**	ft.		
Depth to Bedrock: **67.0**	ft.	☐	☐
Water-Bearing Units: **30- 67**	ft.	☐	☐

Type of Bedrock: **Shale; Well Screened in Alluvial Sand**

WELL CONSTRUCTION OR ABANDONMENT REQUIREMENTS

☐ The Division of Water is issuing you a onetime temporary water well variance as a certified monitoring well driller to plug a water well located at the following location:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well construction variance due to shallow water zone to be monitored at this site. This monitoring well construction variance is for approval of the shorter interval of the sand/filter packs and bentonite seals installed at:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well (construction or abandonment) variance due to

This variance is for approval of: **Using 6 bollards at 2-well cluster (MW-119 & MW-119A) instead of 8 bollards (4 bollards per well)**

For wells installed at: **Wilson Landfill:** **MW-119**

Please include a copy of this variance request with the plugging record you submit.

CASING AND SCREEN INFORMATION

From: **N/A** To:	Hole Diameter: **NA**	in.	Outer Casing Diameter: **NA**	in.	Material:
From: **+2.90 ft** To: **56.15 ft**	Hole Diameter: **6**	in.	Inner Casing Diameter: **2**	in.	Material: **Sch. 40 PVC**
From: **56.15 ft** To: **65.15 ft**	Hole Diameter: **6**	in.	Screen Diameter: **2**	in.	Material: **Sch. 40 PVC**

SEALING MATERIAL REQUIREMENTS FOR PLUGGING

Sealing Material Type:

From: To: Method:

From: To: Method:

ADDITIONAL REQUIREMENTS

Sketch Map **must be provided**

See Attached

THIS VARIANCE IS NOT VALID UNLESS SIGNED BY THE CERTIFIED MONITORING WELL DRILLER AND THE WELL OWNER

DRILLER AFFIRMATION

I, the undersigned, agree to construct the above described well in accordance with all water well construction practices and standards established by the Kentucky Energy and Environment Cabinet, Department of Environmental Protection and in accordance with those conditions described in this variance request. I will be held financially responsible for remedial measures for this well if I fail to construct the well in compliance with the conditions established in this variance request.

Signature: Date: 11-11-25

DIVISION OF WATER AFFIRMATION

Signature: Date: 11/12/2025

WELL OWNER AFFIRMATION

I, the undersigned, understand the above described well is not in compliance with the water well construction practices and standards established by the Kentucky Energy and Environment Cabinet. I acknowledge that the driller has requested a variance to allow the well to be constructed according to the conditions described in this variance request. By signing below, I give my permission for the well to be constructed as described above. If this variance well is constructed to the specifications of this variance and results in degradation of groundwater quality, I will be financially responsible for remedial measures for this well, including plugging if necessary.

Signature: Date: 11-20-25

KENTUCKY MONITORING WELL VARIANCE REQUEST

Pursuant to 401 KAR 6:350 Section 1

Energy and Environment Cabinet, Division of Water, 300 Sower Boulevard, 3rd floor, Frankfort, KY 40601 502-564-3410

GENERAL INFORMATION

Requested By: **William Gordon**

Received By:

Driller Certification Number: **0492 - 0549** -00

Date of Request: 11-11-25

Drilling Company: **Cascade Drilling LP**

Time of Request:

WELL LOCATION

Quadrangle: **Equality** Code:

County: **Ohio** Code:

AI Number: **3319**

AKGWA Number: **8008 . 0539**

Latitude (dd): N **37.456344** ° Longitude: W **-87.102767** °

WELL OWNER IDENTIFICATION

Well Owner: **Big Rivers Electric Corporation Joe Foster**

Telephone: **270 - 844 - 9009**

Address: **8863 State Rt. 85 W**

Email: **joe.foster@bigrivers.com**

City, State: **Centertown, KY**

Zip Code: **42328**

EFFECTIVE DATES

Well Construction Date: **September 5, 2025**

Well Must be Completed On or Before: **MW-119A**

REASON FOR VARIANCE

Attach All Supporting Documentation, 401KAR 6:350 Section 1(6)(a)

See Attached **MW-119A**

☐ Blanket Variance for monitoring well installed in <30 ft. unconsolidated materials

Applicable Regulation: **401 KAR 6:350**

Section: **Section 8 (2)**

WELL CHARACTERISTICS

Soil Thickness: **67.0** ft. Estimated ☐ Exact ☐

Depth to Bedrock: **67** ft. ☐ ☐

Water-Bearing Units: **30- 67** ft. ☐ ☐

Type of Bedrock: **Shale; Well Screened in Clay Alluvium**

WELL CONSTRUCTION OR ABANDONMENT REQUIREMENTS

☐ The Division of Water is issuing you a onetime temporary water well variance as a certified monitoring well driller to plug a water well located at the following location:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well construction variance due to shallow water zone to be monitored at this site. This monitoring well construction variance is for approval of the shorter interval of the sand/filter packs and bentonite seals installed at:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well (construction or abandonment) variance due to

This variance is for approval of: **Using 6 bollards at 2-well cluster (MW-119 & MW-119A) instead of 8 bollards (4 bollards per well)**

For wells installed at: **Wilson Landfill: | MW-119A**

Please include a copy of this variance request with the plugging record you submit.

CASING AND SCREEN INFORMATION

From: **N/A**	To:	Hole Diameter: **NA**	in.	Outer Casing Diameter: **NA**	in.	Material:	
From: **+2.00 ft**	To: **34.73 ft**	Hole Diameter: **6**	in.	Inner Casing Diameter: **2**	in.	Material:	**Sch. 40 PVC**
From: **34.73 ft**	To: **44.73 ft**	Hole Diameter: **6**	in.	Screen Diameter: **2**	in.	Material:	**Sch. 40 PVC**

SEALING MATERIAL REQUIREMENTS FOR PLUGGING

Sealing Material Type:

From: To: Method:

From: To: Method:

ADDITIONAL REQUIREMENTS

Sketch Map **must be provided**:

See Attached

THIS VARIANCE IS NOT VALID UNLESS SIGNED BY THE CERTIFIED MONITORING WELL DRILLER AND THE WELL OWNER

DRILLER AFFIRMATION

I, the undersigned, agree to construct the above described well in accordance with all water well construction practices and standards established by the Kentucky Energy and Environment Cabinet, Department of Environmental Protection and in accordance with those conditions described in this variance request. I will be held financially responsible for remedial measures for this well if I fail to construct the well in compliance with the conditions established in this variance request.

Signature: Date: 11-11-25

WELL OWNER AFFIRMATION

I, the undersigned, understand the above described well is not in compliance with the water well construction practices and standards established by the Kentucky Energy and Environment Cabinet. I acknowledge that the driller has requested a variance to allow the well to be constructed according to the conditions described in this variance request. By signing below, I give my permission for the well to be constructed as described above. If this variance well is constructed to the specifications of this variance and results in degradation of groundwater quality, I will be financially responsible for remedial measures for this well, including plugging if necessary.

Signature: Date: 11.10.25

DIVISION OF WATER AFFIRMATION

Signature: Date: 11/12/2025

VARIANCE REQUEST SUPPLEMENTAL INFORMATION
Big Rivers Electric Corporation D.B. Wilson Station
Monitoring Wells MW-119A and MW-119 (AKGWA #: 8008-0539/8008-0538)

Location of MW-119A and MW-119 (AKGWA #: 8008-0539/8008-0538)

Monitoring Well	Latitude	Longitude
MW-119	37.456344	-87.102767
MW-119A	37.456358	-87.102764

(Image Source: Google Earth, accessed September 23, 2025; image date September/2025)

Clustered Monitoring Wells MW-119A (shallow alluvium well) and MW-119 (deeper alluvium well) are located near the western property boundary of Big Rivers Electric Corporation's D.B. Wilson Station, approximately 2,000 feet north of Kentucky Route 85, and 200 feet east of the Green River. These wells are positioned south of the barge coal unloading facility along the Green River.

Reason For Variance:

An emergency variance was requested and verbally approved by the Kentucky Department of Waste Management (KDWM) on September 8, 2025, with confirmation provided via supporting email correspondence. The variance authorizes the installation of six (6) bollards surrounding the newly clustered Monitoring Wells MW-119A and MW-119, deviating from the standard requirement of four (4) bollards per monitoring well as outlined in Title 401, Chapter 006, Regulation 350: Monitoring Well Construction Practices and Standards, Section 8(2), Bumper Guards.

Monitoring Wells MW-119A and MW-119 were installed approximately five feet apart, measured from the center of each well. Each well was constructed with a three-foot square concrete pad, leaving an approximate two-foot gap between the pads. Four bollards were positioned at the outer corners of each pad (outside the pad footprint), while the remaining two bollards were placed between the pads, aligned with the outer bollards and centered between the wells.

This approved variance and the associated construction details will be documented in the Monitoring Well Construction Progress Report, which will be submitted separately to KDWM

Hoglund, Christopher

From: Hendricks, Todd (EEC) <todd.hendricks@ky.gov>
Sent: Monday, September 8, 2025 3:01 PM
To: Frasher, Joshua t
Cc: Hoglund, Christopher
Subject: RE: BREC Wilson Station Monitoring Well Installation Variance

Follow Up Flag: Follow up
Flag Status: Completed

Josh,

As far as DWM is concerned, that is an acceptable approach.

Please note that this approval is specific to the pair of MW-119 wells only.

Thanks,

Todd Hendricks

From: Frasher, Joshua t <jtfrasher@burnsmcd.com>
Sent: Monday, September 8, 2025 3:10 PM
To: Hendricks, Todd (EEC) <todd.hendricks@ky.gov>
Cc: Hoglund, Christopher <choglund@burnsmcd.com>
Subject: BREC Wilson Station Monitoring Well Installation Variance

Hi Todd,

As we discussed on the phone we are seeking approval to install a total of 6 bollards for the MW-119 pairing of monitoring wells. The distance between each well from center to center is 5 feet. With 3ft x 3ft pads this allows for approximately 2 feet between each pad. There would be 4 bollards off the outside of each pad (but not within the pad). The remaining two bollards would be placed centered between the two pads and in line with the outer 4 bollards.

please let me know if you need any additional information.

Thanks,
Josh Frasher

Appendix D – KDOW Drilling Lubricant Variance Form

KENTUCKY MONITORING WELL VARIANCE REQUEST

Pursuant to 401 KAR 6:350 Section 1

Energy and Environment Cabinet, Division of Water, 300 Sower Boulevard, 3rd floor, Frankfort, KY 40601 502-564-3410

GENERAL INFORMATION

Requested By: William Gordon

Received By:

Driller Certification Number: 0492 - 0549 -00

Date of Request:

Drilling Company: Cascade Drilling LP

Time of Request:

WELL LOCATION

Quadrangle: Equality Code:

County: Ohio Code:

AI Number:

AKGWA Number: -

Latitude (dd): N ° Longitude: W - °

WELL OWNER IDENTIFICATION

Well Owner: Big Rivers Electric Corp. Diana Merritt

Telephone: (270)- 844 - 5008

Address: 5663 State Rt. 85 W

Email: Diana.Merritt@bigrivers.com

City, State: Centertown, KY

Zip Code: 42328

EFFECTIVE DATES

Well Construction Date: September 2-20, 2025

Well Must be Completed On or Before:

REASON FOR VARIANCE

Attach All Supporting Documentation, 401KAR 6:350 Section 1(6)(a)

Use of pipe dope lubricant Thread Armour TJC on pipe threads of drilling rods during groundwater monitoring well drilling.

☐ Blanket Variance for monitoring well installed in <30 ft. unconsolidated materials

Applicable Regulation: 401 KAR 6:350

Section: Section 3 (3)

WELL CHARACTERISTICS

Soil Thickness: ft. Estimated Exact

Depth to Bedrock: ft. ☐ ☐

Water-Bearing Units: ft. ☐ ☐

Type of Bedrock:

WELL CONSTRUCTION OR ABANDONMENT REQUIREMENTS

☐ The Division of Water is issuing you a onetime temporary water well variance as a certified monitoring well driller to plug a water well located at the following location:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well construction variance due to shallow water zone to be monitored at this site. This monitoring well construction variance is for approval of the shorter interval of the sand/filter packs and bentonite seals installed at:

Please include a copy of this variance request with the plugging record you submit.

☐ The Division of Water is issuing you a onetime temporary monitoring well (construction or abandonment) variance due to

This variance is for approval of: Use of lubricant Thread Armour TJC on pipe threads of drilling rods during monitoring well drilling

For wells installed at: Big Rivers Wilson Station Landfill

Please include a copy of this variance request with the plugging record you submit.

CASING AND SCREEN INFORMATION

From:	To:	Hole Diameter:	in.	Outer Casing Diameter:	in. Material:
From:	To:	Hole Diameter:	in.	Inner Casing Diameter:	in. Material:
From:	To:	Hole Diameter:	in.	Screen Diameter:	in. Material:

SEALING MATERIAL REQUIREMENTS FOR PLUGGING

Sealing Material Type:

From: To: Method:

From: To: Method:

ADDITIONAL REQUIREMENTS

Sketch Map **must be provided**:

Nine (9) new characterization groundwater monitoring wells north of the plant (see next page)

THIS VARIANCE IS NOT VALID UNLESS SIGNED BY THE CERTIFIED MONITORING WELL DRILLER AND THE WELL OWNER

DRILLER AFFIRMATION

I, the undersigned, agree to construct the above described well in accordance with all water well construction practices and standards established by the Kentucky Energy and Environment Cabinet, Department of Environmental Protection and in accordance with those conditions described in this variance request. I will be held financially responsible for remedial measures for this well if I fail to construct the well in compliance with the conditions established in this variance request.

Signature: Date: 8.21.25

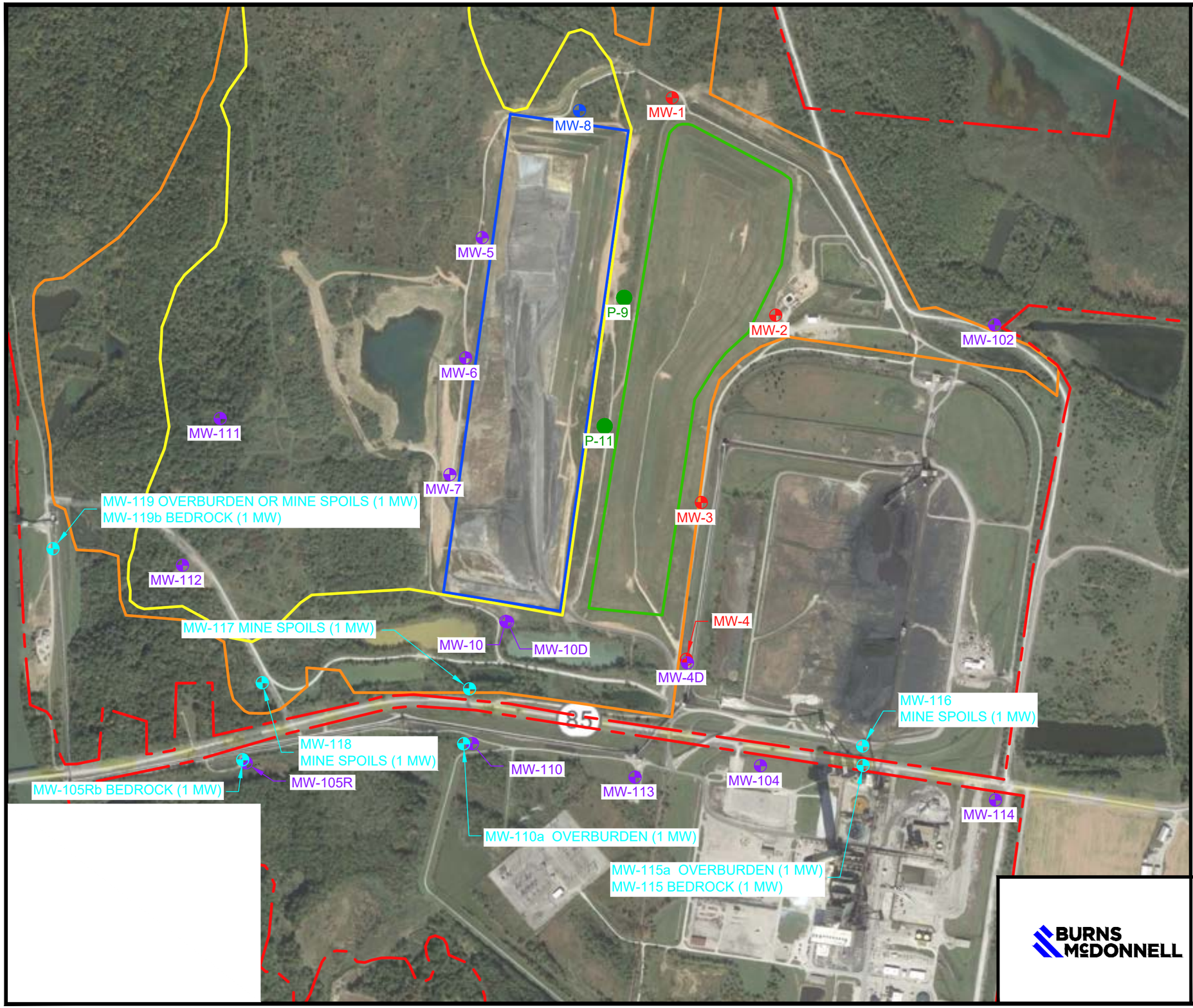
DIVISION OF WATER AFFIRMATION

Signature: Date: 8/21/2025

WELL OWNER AFFIRMATION

I, the undersigned, understand the above described well is not in compliance with the water well construction practices and standards established by the Kentucky Energy and Environment Cabinet. I acknowledge that the driller has requested a variance to allow the well to be constructed according to the conditions described in this variance request. By signing below, I give my permission for the well to be constructed as described above. If this variance well is constructed to the specifications of this variance and results in degradation of groundwater quality, I will be financially responsible for remedial measures for this well, including plugging if necessary.

Signature: Date:



LEGEND

- PROPERTY BOUNDARY
- CCR PHASE 2 LANDFILL
- BOND INCREMENT
- KAR PERMIT AREA
- INACTIVE PHASE I LANDFILL

PHASE I LANDFILL PERMITTED COMPLIANCE MONITORING WELLS:

- UPGRADIENT MONITORING WELL
- DOWNGRADIENT MONITORING WELL

OTHER MONITORING WELLS:

- MONITORING WELLS (SCREENING AND WATER LEVEL PURPOSES)
- PIEZOMETER (WATER LEVEL ONLY)
- PROPOSED NEW MONITORING WELLS (NINE WELLS; LOCATIONS APPROXIMATE)

N

0 800' 1600'

SCALE IN FEET

BURNS McDONNELL

FIGURE 2
PROPOSED MONITORING WELL LOCATIONS ON AERIAL MAP
BREC WILSON STATION
OHIO COUNTY, KENTUCKY

\\BMCD.BURNSMCD.COM\DFS\CLIENTS\ENS\BIGRIVERSEC\185747_WILSON2025GW\STUDIES\SITE_INVEST\NEW MW INSTALLS (NEW PN PENDING)\WORK PLAN\FIGURES\145603_FIG2-PROPOSED MONITORING WELL LOCATIONS ON AERIAL MAP_RUKhan_8/20/2025 11:34:59 AM_BMC-STD.ctb

Appendix E – Field Logbook

Tuesday September 2, 2025

61-83, Cloudy

Driving / site prep

Josh Fraher

1530 Arrive on site, Safety Video

1600 Discuss plan w/ Cascade & view well locations

1645 get water

1700 off site

Wednesday September 3, 2025

MW Enstup

61-83, Sunny

Josh Fraher

0700 Arrive on site

0710 Conduct JSA

0730 load up & set-up at MW-110A

0800 Begin drilling

0845 TD @ 25.0 ft

need to bring bottom up to 22.ft

waitons on supplies to arrive

0915 Supplies on site, Cascade unloads

1000 Unloaded Resume with drilling

1005 Add 3 bucket of pellets to bring up bottom

1030 Early Break for lunch

1200 Cascade back on site Begin well construction

Bottom @ 22 Ft bgs

Sand buffer 21.5 - 22 Ft bgs

Risers: 10.00' + 5.00'

Screen: 10.01'

Cap: 0.75'

Sand: 9 - 21.5 - 5 bags

Bentonite: 7-9 — 5 bags Approx 2-9 Ft bgs 2 buckets

1245 placed Bentonite seal.

9/3/25

1250 Discussed possible variance with Todd Hendrickus (NDDWM). Will send email for written approval

1400 Email Approval to use pellets for remaining seal Dated 9/3/25

1410 Add shims to 2.5 ft bgs to Allow for expansion

1420 Set up on MW-105B

1445 Begin drilling

1545 TD 75ft Bgs

1600 pump down water & Deploy Downhole Camera

1630 Discuss w/ C. Hoglund Camera results will set well at 24ft bgs

1645 Add ~~Pellets~~ Pellets to bring bottom up to 24ft bgs

1700 offsite

9/3/25

Thursday September 4, 2025

Col- 81, partly cloudy & cloudy

MW Install

Josh Fischer

0700 Arrive on site & Sign in

0715 Conduct PTA

0720 Set up on MW-105B to over-drill w/ 6" to 24ft bgs

0725 Begin over drilling

0740 Begin well Install

Sand buffer: 23.5 - 24

Screen: 10.00

Cap: 0.25

Riser 10.01 - 5.00

Sand: 11 - 23.5

Pellets: 7.5 - 11 1 bucket

Pellets placed at 0750

0800 Cascade get water & Decons during Hydration time

0810 GPRS on site. Set them up to begin locates

0950 Begin mixing grout

0955 Place Grout ~10 gallons

1000 Begin moving to MW-119b

1025 Set up on MW-119

1200 Break for lunch

9/4/25

1245 Return from lunch
1300 Begin Drilling
1530 TDQ 70ft bgs. Discuss Install Depth with C. Hoglund
- will install at Topat Shale (67ft)
Screened 57-67 ft bgs
1545 place pellets to bring bottom up to 67ft. Allow to hydrate overnite.
1600 get water & Rack at loading
1700 off site

Friday September 5, 2025
62-83, partly cloudy
MW Install
Josh Fricke

0700 Arrive on site
0705 Conduct PTA
0720 load for MW construction
Begin constructing MW-119
Sand Buffer 66.5-62.5
Screen: 10.00 Centralizers. ~~57,49,39,15~~ 52,46,36,26,16
Cap: 0.25
Riser: 10.01 ug
Filter pack 54 - 66.5 5 bags
Bentonite pellets: 51-54 1 bucket
pellets placed @ 0820
1010 Begin prepping for grout
1020 mix grout
1025 Pump grout using Tremie
1030 grout to ~ 7ft bgs.
~ 80 gallons ~ 3 bags
1035 pull casing & set up on MW-119S
1115 Break for lunch
1205 Begin Drilling MW-119~~D~~S
1305 TD @ 48ft bgs
will set well at 45.

9/5/25

1320 Begin well Install

Sand bottom 44.5-45

Cap: 0.75

Screen: 10.01

Risers: 10.00, 10.01, 10.00, 9.99

Filter pack: 32 - 44.5

Bentonite seal: 28 - 32

1340 Place bentonite seal

1530 Begin setting up for grout.

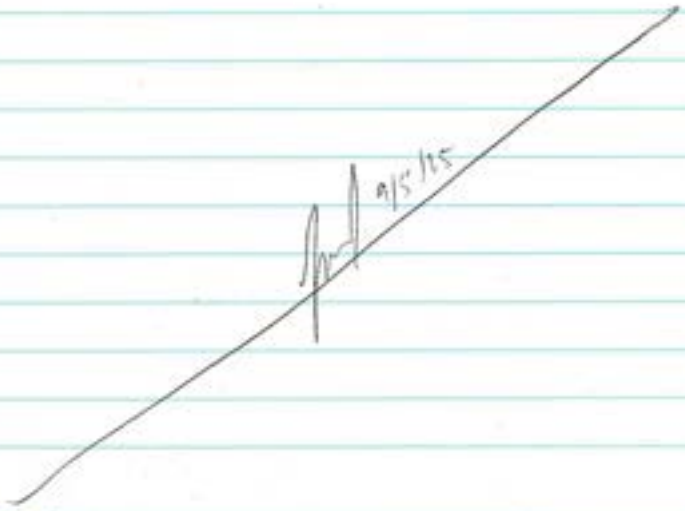
1545 Mix & pump grout into boring via tremie ~ 50 gallons +1.5 bags

1555 pull casing & Top off grout.

1600 pack up & move to MW-118

1630 Set up at MW-118

1700 offsite



Saturday September 6, 2025

58-75, Cloudy

MW Install

J. Fowler

0700 arrive on site

0705 Conduct PTA

0750 Begin Drilling MW-118

1040 Reach TD @ 41.0 Ft bgs

1100 Rods are stuck.. attempting to Remove

1230 Rig broke well trying to Remove Stuck casing.

1305 MW-119 WL: 32.74

TD: 69.95

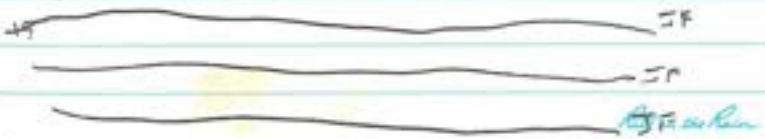
	pH	Temp	Cond	Turb
I	8.2	13.0	417	Brown high
6	7.7	19.5	402	light gray
12	7.7	19.6	412	" "
18	7.6	19.5	407	medium turbidity (cloudy
24	7.5	18.5	418	" "
30	7.6	18.7	421	Clear

WL: 33.01 TD: 69.45

1340 MW-119A WL: TOC TD:

I	7.9	21.0	403	high Brown
5	7.8	22.0	415	" "

~~NO~~ DRY



9/6/25

1430 Rig Repaired, move to MW-117 and set-up
1500 Begin Drilling MW-117
1545 TD @ 25ft bgs
1620 Deploy Downhole camera Can see water coming in around 15ft bgs
1630 Run 6" casing to bottom @ 25ft bgs.
1645 Install well at 24ft bgs
Sand buffer: 24-25ft bgs
Screen: 10.01
Cap: 0.25
Riser: 10.00 & 5.01
Filter pack: 12-24
Bentonite seal: 8-12
1710 Bentonite seal placed
1720 off site

9/6/25

Sunday September 7, 2025
50-72, Sunny
MW Install
Josh Fischer
0700 Arrive on site
0710 Conduct PTA
0715 Set up on MW-117 to grout
0730 Grout boring ~10gallons
0745 Begin cleaning up & moving to MW-114
0830 Begin drilling
1015 TD @ 45ft bgs
1020 Bring up bottom with pellets to 32ft bgs
1220 Begin well construction
Sand buffer: 31-32
Cap: 0.25
Screen: 10.00
Riser: 10.01, ~~10.01~~ 10.00, 5.00
Filter pack: 18 - 31
Bentonite seal: 15 - 18
Placed at 1240
1440 Prep to grout
1445 Mix grout
1450 Pump grout into boring via tremie

1500 move & set up on MW-115A
1550 Begin Drilling MW-115
1600 Concrete elevate ~ 3Ft bgs
Talk with T Smeed & Choglund
to Discuss options.
Will offset 10 Ft west & Attempt to Redrill
1630 offset & Drill
1645 Hit concrete. Will stand down.
1700 ~~off~~ site

9/7/15

Monday September 8, 2015
58-76, sunny
~~Survey~~ MW. Install
Josh Fischer

0715 Arrive on site
0720 Conduct PTA
0736 Set up on MW-105B for Development.

MW-105B WL: 2.92 TD: 25.32

Vol	pH	Temp	Cond	Turb
1	7.9	15.5	1132	Brown-Cloudy
3	7.6	16.3	581	" "

4 DTA

0815 Set up on MW-110A for development

MW-110A WL: 12.31 TD: 25.12

1	7.8	15.3	800	Brown-Cloudy
3	7.7	16.2	765	" "

0840 Set up on MW-119A for Development

MW-119A WL: 12.02 TD: 45.28

1	7.6	16.9	1143	Cloudy
5	7.5	16.9	1105	

10 DTA

0855 Set up on MW-117 for Development

MW-117 WL: 1.80 TD: 25.23

1	7.9	16.6	432	Cloudy Brown
3	7.8	16.5	433	" "

6 DTA

0910 move full drums to Staging Area

1040 Set up on mw-114 for Development #2 WL: 17.78 TD: 33.91

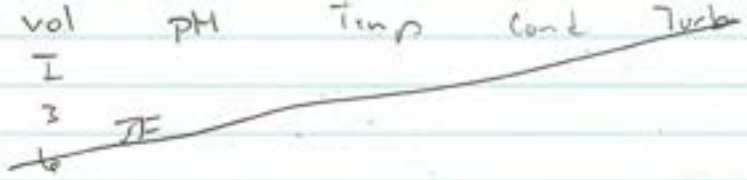
Vol		pH	Cond	Temp	Turb.	
1		7.7	1632	19.2	Brown Silty	
5		7.6	1601	18.5	" "	
7.5	DZ9	7.5	1685	18.3	" "	

1100 Cascade goes to get lumber for pads + lunch

1700 Return + begin building forms

1230 mw-119A 3rd development WL: 35.50

vol	pH	Temp	Cond	Turb
1				
3				



not Recharged enough for development

1250 mw-117 WL: 12.15 2nd development

1	7.6	20.9	435	Brown Cloudy
3	7.5	18.2	430	" "

1320 DZ9 mw-114 WL: 14.15 3rd development

1	7.6	18.5	1639	Cloudy
3	7.2	18.6	1642	

1440 mw-105b WL: 14.65

1450 mw-110a WL: 11.38

1530 offsite. All pads dug + Ready for Complete

Tuesday September 9, 2025

81-85, Sunny

MW completion

Josh Fash

0736 Arrive on site, will begin mw completion

0810 Mix Concrete for mw-110a

0840 Complete pad at mw-110a
Approval given for mw-120
Begin moving + setting up at new location

0900 set up at mw-120

0930 Beg. Drilling mw-120

1040 TD@ 45Ft bgs

Sand buffer 44.5-45

Riser: 10.01 x ¾

Screen: 10.00

Cap: 0.25

Filter pack: 32.5 44.5 Pellets: 30-32.5 ~~14~~ 15

1100 Boring taking all sand Added for Filter pack + sand buffer ~ 7Bags going to add ~~chips~~ Pellets to try and fill voids.

1130 Fr. Patrick on site.

1320 Begin well completion at mw-119
Mix Concrete and push Casing Into Concrete.

1345 Complete pad. 9 bags

1435 Add 6" sand buffer on mw-120
Seems sand is coming up.
Proceed with well Install.
Construction details on page 67.

1515 mw-110a WL: 11.18 2nd development

	pH	Cond	Temp	Turb	
I	7.7	763	~~381~~ 16.3	Brown High	
3	7.7	785	~~785~~ 16.7	"	

6 DRY

1530 mw-105b WL: 9.54 2nd development

I	7.6	591	15.7	Brown high
3	7.7	612	16.2	"

6 DRY

* note * two cascade personell broke off to complete pads on Constructed mws

1630 All personell off site.

* per Discussion with Kevin Patrick. All wells Installed going forward mixed a minimum hydration time of 4 hours before grouting. All previous wells with 2 hour hydration must be noted in mw Well Installation Report.

Wednesday September 10, 2025
64-83, partly cloudy
mw Install
Josh Fralow

0700 on site, Conduct PTA

0710 prep for grout at mw-120

0725 Begin mixing grout.

0730 Tremie Into borehole.

0745 Finish grouting. Start 3rd development

mw-105b WL: 11.18 TD: 26.81

I	7.7	627	16.1	light brown
3	7.7	631	16.3	Clear
6 DRY				

mw-110a WL: 11.26 TD: 24.40

I	7.5	771	16.2	Light Brown
3	7.5	785	16.1	Clear
6 DRY				

mw-106 WL: 17.70 TD: 32.92

3	7.5	1671	18.3	Brown Cloudy
4	7.6	1705	18.0	"
9 DRY		1710	17.8	Clear

mw-119a WL: 19.24 TD: 48.01

3	7.6	16.9	1107	Clear
6	7.5	16.8	1117	"
8 DRY				

MW-117 WL: 12.62 TD: 27.92
1030 All personnell offsite

9/10/25

Monday September 15, 2025
65-90, sunny
MW - Zindell
Josh Fuchs
0130 Depart HQ
0900 Arrive at BREC Wilson
0910 GPRS on site.
0930 Conduct locate
1100 GPRS offsite
1700 Cascade on site conduct PTA.
1230 unload
1300 Set-up on MW-118
1320 Begin overdrill of MW-118
1415 Conduct Downhole camera
1430 Add pellets to bring bottom up to 35.5
1645 Construct MW-118
Sand bailer: 35 - 35.5
Screen: 10.00
Cap: 0.25
Riser: 10.01, 10.00, 5.01
Filler packs: 22 - 35 7bags
Bentonite Seal #1 - 22 1bucket
1700 offsite

9/15/25

Tuesday September 16, 2025

64-88, sunny

MW Install

Josh Fraher

0700 Arrive on site

0705 Conduct PTA

0715 mix grout

0720 Pump grout via Tremie into boring ~ 35 gallons 1 bag

0730 move to MW-115 (Justin)

0900 Beg. - Drilling MW-115 JF

1045 TD @ 45 Ft bgs. pump out water & Deploy Downhole camera

Install MW-115 at 45 Ft bgs

Sand bulker: 44.5 - 45

Riser: 10.01, 10.00, 10.01, 10.01

Screen: 10.00

Cap: 0.75

Filter pack: 32 - 44.5 - 5 bags

Bentonite pellets 29 - 32 @ 1205

1210 Break for lunch

1300 Cascad Returns & works on pads for MW-118 & 120

1600 Mix grout

1620 Pump grout

1645 offsite

9/16/25

Wednesday September 17, 2025

61 - 89, sunny

MW Install

Josh Fraher

0700 Arrive on site. Conduct PTA

0710 Set up on MW-115A

0730 Beg. - Drilling

0800 TD @ 20 Ft bgs

0810 Beg. - Construction of MW-115A

Sand bulker: 19.5 - 20

Screen: 10.00

Cap: 0.25

Riser: 10.01, 5.00

Filter pack: 7 - 19.5 5 bags

Pellets: 3 - 7 @ 830

0930 Cascade Left site for Auger Attachment

1100 Back on site, prep for drilling bollards

1130 Beg. - Drilling Bollards / Installing

MW-118		WL: 21.79	TD: 37.95	
1	8.0	23.9	1168	Log Turbid
3	7.8	20.5	1177	"
6	7.8	19.5	1173	"
9	DTW			

MW-120		WL: 36.20	TD: 47.42	
2	7.5	20.9	181.6	Log Turbid
5	7.0	21.0	196.7	Brown Turb
10	6.8	19.5	197.5	Clear
15	6.7	19.4	203.7	↓
20	6.6	19.4	210.1	

9/17/25

mw-170 cont.

Vol	pH	Temp	Cond	Turb
25	6.7	19.0	215.6	Clear
30	6.7	19.1	217.1	
35	6.8	19.2	220.8	
45	6.7	19.0	219.7	
55	6.7	19.1	222.3	

mw-115a WL: DRY TD:

mw-115 WL: 7.54 TD:

Vol	pH	Temp	Cond	Turb
1	7.6	25.2	980	Grey high
5	7.1	25.4	991	"
10	6.9	20.1	1018	"
20	7.0	20.0	1031	Cloudy
30	7.1	19.5	1057	"
40	7.3	19.7	1060	"
50	7.3	19.6	1065	"
60	7.3	20.0	1071	"
70	7.3	20.1	1052	Clear

1700 offsite

9/17/25

Thursday September 18, 2025

59-89, sunny

mw completions

Josh Frain

0700 Arrive on site

0730 mw-118 WL: 21.92

1	7.8	20.7	1108	Cloudy Brown
3	7.7	19.1	1130	" "
6	7.7	19.0	1156	" "

7 DRY

0745 mw-119 WL: 32.76

0800 Begin slug test

0870 End slug test

0825 mw-119a WL: 15.81

0828 Begin slug test

1008 End slug test

1020 mw-116 WL: 17.79

1125 Begin slug test

1170 End slug test

1175 mw-117 WL: 13.65

1137 Begin slug test

1245 End slug test

1255 mw-110a WL: 9.40

1700 Begin slug test

1858 End slug test

1900 mw-118 WL: 21.99

Rain on the Rain

9/18/75

Vol	pH	Cond	Temp	Turb
1	7.8	1178	19.0	Cloudy
3	7.8	1156	18.8	"
6	7.7	1181	18.8	Clear

8 DRY

1525 MW-105b WL: 9.78
1535 Begin slug test
1705 End slug test Cascade offsite
1715 MW-115 WL: 10.62
1716 Start Slugtest
1750 End slug test
1800 MW-120 WL:
1810 Start Slugtest
1825 End slug test
~~1830 move to WL:~~ JF
1900 offsite

9/18/75

Friday September 19, 2075
61 - 88, Sunny
Slug test/sampling
Josh Tinder
0700 Arrive on site, Conduct PTA
0710 Cascade continues to load
0745 MW-118 Begin Slug test
MW-118 End Slug test
Round of water levels

	WL	TD	
MW-105b	9.36	96.81	8008-0536
MW-110a	11.42	74.40	8008-0537
MW-115a	20.78	27.69	8008-0545
MW-115	10.66	42.70	8008-0544
MW-116	17.77	33.91	8008-1543
MW-117	13.66	27.25	8008-0542
MW-118	22.09	37.73	8008-0541
MW-119a	13.59	48.08	8008-0539
MW-119	32.77	69.30	8008-0538
MW-120	36.21	47.45	8008-0540

0915 Collect Soil IDW-1
0920 Collect Soil IDW-2
1020 Collect waste water - Sample 1 Drum 1-5
1025 Collect waste water - Sample 2 6-10
1030 Collect waste water - Sample 3 11-15
1035 Collect waste water - Sample 4 16-20
1040 Collect waste water - Sample 5 21-75
1045 Collect waste water - Sample 6 26-27

9/19/75

1115 Depart BREL

1215 Drop off samples at Pace Madisonville

2000 Arrive in HC

Appendix F – Drill Logs

Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-105B

Northing/Easting	Latitude/Longitude	Ground Elevation	Page
409930.72 North, 1608907.26 East	37.451608 Lat, -87.097303 Long	393.72 ft AMSL	1 of 2

Total Depth (feet)	Hole Diameter (inches)	Overburden Thickness (feet)	Bedrock Thickness (feet)	No. of samples
28.31	6.25	8.00	20.31	0

Driller	Drilling Company	Drilling Rig
William "Russ" Gordon	Cascade Drilling LP	Geoprobe 814066

Date	Logged By	Reviewed By	Approved By
09/03/2025 to 09/04/2025	Josh Frasher	Zachary Grosch	Chris Hoglund

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
393	1	Clay with trace to some silt, medium plasticity, dry crumbles, strong brown (CL)					Concrete: 0.00-2.00 ft bgs
392	2	Same as above, reddish brown w/ light grey mottling (CL)		5.0 / 5.0			High-Solids Bentonite Grout Slurry: 2.00-7.50 ft bgs
391	3						
390	4	Becomes more damp					
389	5						
388	6	Clay with sand (fine), trace plasticity, stiff, reddish brown, heavy iron staining (CL)		5.0 / 5.0			Bentonite: 7.50-11.00 ft bgs
387	7						
386	8						
385	9	Highly weathered sandstone, crumbles easily, trace clay zones, fine sand, heavy iron staining					
384	10						
383	11	Weathered sandstone, grey with heavy iron staining		5.0 / 5.0			
382	12						
381	13						
380	14	becomes less weathered					Screen Top @ 13.56 ft bgs
379	15						
378	16						
377	17						

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AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

Water Level At Time of Drilling: No Measure
Water Level Directly After Drilling: No Measure
Water Level Following Drilling: 7.48 ft

Sandstone
USCS Low Plasticity Clay

BURNS McDONNELL

Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-105B

Northing/Easting	Latitude/Longitude	Ground Elevation	Page
409930.72 North, 1608907.26 East	37.451608 Lat, -87.097303 Long	393.72 ft AMSL	2 of 2

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
376	18	Weathered sandstone, grey with heavy iron staining		5.0 / 5.0			Filter Sand: 11.00-24.31 ft bgs
375	19	Iron staining becomes trace					
374	20						
373	21	Sandstone, fine to medium grain, micaceous, breaks easily, heavy iron staining, brownish gray, fractures present					
372	22						
371	23	Heavy iron staining, organics		5.0 / 5.0			0.25" end cap Screen Bottom @ 23.56 ft bgs
370	24						
369	25	Healed fractures					Bentonite: 24.31-28.31 ft bgs
368	26	Light gray sandstone, multiple organics, healed fractures, heavily micaceious		3.0 / 3.0			
367	27						
366	28	Some fractures					
365	29	Boring Terminated at 28.3 feet bgs					
364	30						
363	31						
362	32						
361	33						
360	34						
359	35						
358	36						
357	37						
356	38						

Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-110a

Northing/Easting	Latitude/Longitude	Ground Elevation	Page
410065.45 North, 1610848.26 East	37.452053 Lat, -87.090622 Long	390.53 ft AMSL	1 of 2

Total Depth (feet)	Hole Diameter (inches)	Overburden Thickness (feet)	Bedrock Thickness (feet)	No. of samples
25.00	6.25	21.80	3.20	0

Driller	Drilling Company	Drilling Rig
William "Russ" Gordon	Cascade Drilling LP	Geoprobe 814066

Date	Logged By	Reviewed By	Approved By
09/03/2025	Josh Frasher	Zachary Grosch	Chris Hoglund

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
390	0	Clay with some silt, dry, some plasticity, crumbles when dry, yellowish brown (CL)					Concrete: 0.00-2.00 ft bgs
389	1	Clay with silt, some gravel, some plasticity, some iron staining, trace to some coal fragments, brown to grayish brown (CL)					
388	2						Bentonite Pellets: 2.00-9.00 ft bgs
387	3	Clay with some silt, trace sand (fine), very stiff, medium to high plasticity, reddish brown (CL)		5.0 / 5.0			
386	4						
385	5						
384	6						
383	7	Clay, trace to some silt, damp, high plasticity, stiff, gray (CH)		5.0 / 5.0			
382	8						
381	9	Heavy iron staining					
380	10						
379	11						
378	12			1.0 / 5.0			Screen Top @ 10.86 ft bgs
377	13						
376	14	Clay, trace silt, high plasticity, damp, gray with brown mottling, medium stiff (CH)					
375	15						Filter Sand: 9.00-21.61 ft bgs
374	16						
	17						

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AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

Water Level At Time of Drilling: No Measure
Water Level Directly After Drilling: No Measure
Water Level Following Drilling: 6.96 ft

Sandstone
USCS Clayey Sand
USCS High Plasticity Clay
USCS Low Plasticity Clay

BURNS McDONNELL

Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-110a

Northing/Easting	Latitude/Longitude	Ground Elevation	Page
410065.45 North, 1610848.26 East	37.452053 Lat, -87.090622 Long	390.53 ft AMSL	2 of 2

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
372	18	Clay, trace silt, high plasticity, damp, gray with brown mottling, medium stiff (CH)		5.0 / 5.0			
371	19	Sand with some clay (fine to medium grain), heavy iron staining, damp to wet, trace to some plasticity, reddish brown (SC)					
370	20						
369	21						Screen Bottom @ 20.86 ft bgs 0.25" end cap Bentonite: 21.61-25.00 ft bgs
368	22	Weathered light gray sandstone, some iron staining		5.0 / 5.0			
367	23						
366	24						
365	25	Boring Terminated at 25.0 feet bgs					
364	26						
363	27						
362	28						
361	29						
360	30						
359	31						
358	32						
357	33						
356	34						
355	35						
354	36						
353	37						
	38						

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Project Name: Wilson MW Install	Project Location: Centertown, KY	Project No.: 188763	Boring/Well ID: MW-115	
Northing/Easting: 409695.95 North, 1613784.16 East	Latitude/Longitude: 37.451153 Lat, -87.080492 Long	Ground Elevation: 389.86 ft AMSL	Page: 1 of 3	
Total Depth (feet): 45.00	Hole Diameter (inches): 6.25	Overburden Thickness (feet): 30.00	Bedrock Thickness (feet): 15.00	No. of samples: 0
Driller: William "Russ" Gordon	Drilling Company: Cascade Drilling LP	Drilling Rig: Geoprobe 814066		
Date: 09/16/2025	Logged By: Josh Frasher	Reviewed By: Zachary Grosch	Approved By: Chris Hoglund	

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
389	1	Gravel (GW)					Concrete: 0.00-2.00 ft bgs
		Clay with silt, some sand (fine), dry, stiff, some plasticity, reddish brown (CL)					
388	2						High-Solids Bentonite Grout Slurry: 2.00-29.00 ft bgs
387	3			5.0 / 5.0			
386	4						
385	5						
384	6	Clay with some silt, damp, stiff, medium to high plasticity, grey to dark grey (OH)					
383	7						
382	8			5.0 / 5.0			▼
381	9						
380	10	Same as above, light yellowish brown with light gray mottling (OH)					
379	11						
378	12	Same as above, damp to wet, high plasticity, reddish brown to grayish brown (OH)					
377	13			3.0 / 5.0			
376	14						
375	15	Same as above, light yellowish brown, damp to wet (OH)					
374	16						
373	17						

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AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

▽ Water Level At Time of Drilling: No Measure
▼ Water Level Directly After Drilling: No Measure
▼ Water Level Following Drilling: 7.53 ft

Shale
USCS High Plasticity Organic silt or clay
USCS Low Plasticity Clay
USCS Well-graded Gravel

BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-115
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	409695.95 North, 1613784.16 East	37.451153 Lat, -87.080492 Long	389.86 ft AMSL	2 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
372	18	Same as above, light yellowish brown, damp to wet (OH)					
371	19						
370	20			10.0 / 10.0			
369	21	Same as above, becomes reddish brown with light gray mottling (OH)					
368	22						
367	23						
366	24						
365	25						
364	26	Clay, very stiff, light gray with red mottling, high plasiticity (OH)					
363	27			5.0 / 5.0			
362	28						
361	29						Bentonite: 29.00-32.00 ft bgs
360	30	Shale with thinly interbedded coal, black, dry, weathered					
359	31						
358	32			5.0 / 5.0			
357	33						
356	34						Screen Top @ 34.25 ft bgs
355	35						
354	36						
353	37						
352	38	Light gray shale					

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BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-115
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	409695.95 North, 1613784.16 East	37.451153 Lat, -87.080492 Long	389.86 ft AMSL	3 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
351	39	Light gray shale					Filter Sand: 32.00-45.00 ft bgs
350	40			7.0 / 10.0			
349	41						
348	42						
347	43						
346	44						Screen Bottom @ 44.25 ft bgs
345	45						0.25" end cap
		Boring Terminated at 45.0 feet bgs					
344	46						
343	47						
342	48						
341	49						
340	50						
339	51						
338	52						
337	53						
336	54						
335	55						
334	56						
333	57						
332	58						
331	59						

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Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-115a

Northing/Easting	Latitude/Longitude	Ground Elevation	Page
409690.87 North, 1613783.33 East	37.451139 Lat, -87.080494 Long	389.95 ft AMSL	1 of 2

Total Depth (feet)	Hole Diameter (inches)	Overburden Thickness (feet)	Bedrock Thickness (feet)	No. of samples
20.35	6.25	20.35	0.00	0

Driller	Drilling Company	Drilling Rig
William "Russ" Gordon	Cascade Drilling LP	Geoprobe 814066

Date	Logged By	Reviewed By	Approved By
09/17/2025	Josh Frasher	Zachary Grosch	Chris Hoglund

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
		Gravel Fill (FILL)					Concrete: 0.00-3.00 ft bgs
389	1	Clay with silt, some sand (fine), some plasticity, dry, reddish brown (CL)					
388	2						
				5.0 / 5.0			
387	3						Benetonite: 3.00-7.00 ft bgs
386	4	Clay with silt, medium plasticity, very stiff, dry, grayish brown (CL)					
385	5						
384	6						
383	7			4.0 / 5.0			
382	8	Damp to wet					
381	9						
380	10						Screen Top @ 9.60 ft bgs
		Same as above, becomes yellowish brown, wet (CL)					
379	11						
378	12						
377	13						
376	14						Filter Sand: 7.00-20.35 ft bgs
375	15			8.0 / 10.0			
374	16						
373	17						

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AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

Water Level At Time of Drilling: No Measure
Water Level Directly After Drilling: No Measure
Water Level Following Drilling: 4.71 ft

Fill (made ground)
USCS Low Plasticity Clay

BURNS McDONNELL

Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-115a

Northing/Easting	Latitude/Longitude	Ground Elevation	Page
409690.87 North, 1613783.33 East	37.451139 Lat, -87.080494 Long	389.95 ft AMSL	2 of 2

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
372	18	Same as above, becomes yellowish brown, wet (CL)					
371	19						
370	20						Screen Bottom @ 19.60 ft bgs 0.25" end cap
		Boring Terminated at 20.35 feet bgs					
369	21						
368	22						
367	23						
366	24						
365	25						
364	26						
363	27						
362	28						
361	29						
360	30						
359	31						
358	32						
357	33						
356	34						
355	35						
354	36						
353	37						
352	38						

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11/13/2025

Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-116

Northing/Easting	Latitude/Longitude	Ground Elevation	Page
410025.48 North, 1614017.19 East	37.452067 Lat, -87.079706 Long	409.31 ft AMSL	1 of 3

Total Depth (feet)	Hole Diameter (inches)	Overburden Thickness (feet)	Bedrock Thickness (feet)	No. of samples
45.00	6.25	45.0	0.0	0

Driller	Drilling Company	Drilling Rig
William "Russ" Gordon	Cascade Drilling LP	Geoprobe 814066

Date	Logged By	Reviewed By	Approved By
09/07/2025	Josh Frasher	Zachary Grosch	Chris Hoglund

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
409	0	Gravel Fill (FILL)					Concrete: 0.00-2.00 ft bgs
408	1	Fill - Clay with silt and gravel (coarse), some plasticity, dry, dark brown (FILL)					
407	2						High-Solids Bentonite Grout Slurry: 2.00-15.00 ft bgs
		Mine Spoils Fill - Grey Shale (FILL)		4.0 / 5.0			
406	3	Mine Spoil Fill - Clay with silt, sand (fine), shale chunks, trace plasticity, iron staining, grey to dark grey (FILL)					
405	4						
404	5						
403	6			3.0 / 5.0			
402	7						
401	8						
400	9						
399	10	Mine Spoils Fill - Weathered gray shale (FILL)					
398	11	Mine Spoils Fill - Highly weathered sandstone with shale chunks, some thick layers of shale (FILL)					
397	12			5.0 / 5.0			
396	13						
395	14						▼
394	15						Bentonite: 15.00-18.00 ft bgs
393	16						
392	17						

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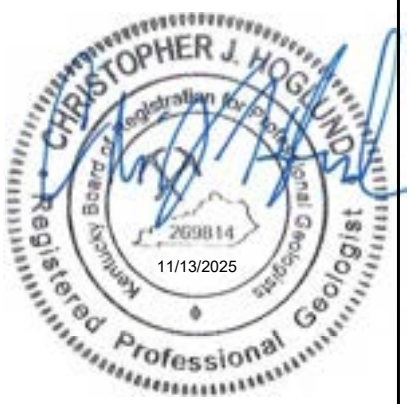
AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

▽ Water Level At Time of Drilling: No Measure
▼ Water Level Directly After Drilling: No Measure
▼ Water Level Following Drilling: 14.40 ft

Fill (made ground)
Sandstone
Shale
USCS High Plasticity Organic silt or clay

BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-116
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	410025.48 North, 1614017.19 East	37.452067 Lat, -87.079706 Long	409.31 ft AMSL	2 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
391	18	Mine Spoils Fill - Highly weathered sandstone with shale chunks, some thick layers of shale (FILL)		5.0 / 5.0			
390	19	Mine Spoils Fill - Shale, dark grey, weathered (FILL)					
389	20	Mine Spoils Fill - Weathered gray shale chunks, iron staining sandstone chunks (FILL)					Screen Top @ 20.60 ft bgs
388	21						
387	22			5.0 / 5.0			
386	23						
385	24						
384	25	Mine Spoils Fill - Same as above, more clay, some plasticity, damp to wet (FILL)					Filter Sand: 18.00-31.85 ft bgs
383	26						
382	27			5.0 / 5.0			
381	28						
380	29	Clay trace to some silt, high plasticity, damp to wet, light grey, low stiffness (OH)					
379	30	Clay trace to some silt, hgih plasticity, wet, yellowish brown, stiff (OH)					Screen Bottom @ 30.60 ft bgs 0.25" end cap
378	31						
377	32						Bentonite: 31.85-45.00 ft bgs
376	33						
375	34						
374	35	Same as above, some grey mottling, iron staining (OH)		11.0 / 11.0			
373	36						
372	37						
371	38						

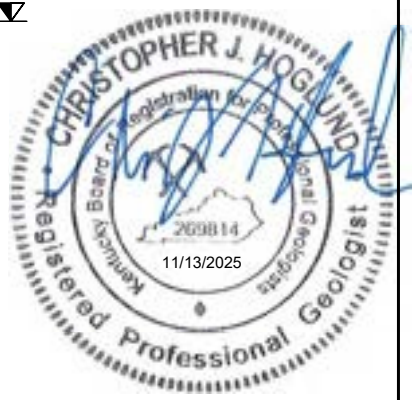


BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-116
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	410025.48 North, 1614017.19 East	37.452067 Lat, -87.079706 Long	409.31 ft AMSL	3 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
370	39	Same as above, some grey mottling, iron staining (OH)					
369	40						
368	41	Same as above, grey, wet, no iron staining (OH)					
367	42						
366	43			4.0 / 4.0			
365	44						
364	45	Boring Terminated at 45.0 feet bgs					
363	46						
362	47						
361	48						
360	49						
359	50						
358	51						
357	52						
356	53						
355	54						
354	55						
353	56						
352	57						
351	58						
350	59						

Project Name: Wilson MW Install	Project Location: Centertown, KY	Project No.: 188763	Boring/Well ID: MW-117	
Northing/Easting: 410584.00 North, 1610652.98 East	Latitude/Longitude: 37.453469 Lat, -87.091322 Long	Ground Elevation: 391.55 ft AMSL	Page: 1 of 2	
Total Depth (feet): 25.54	Hole Diameter (inches): 6.25	Overburden Thickness (feet): 12.60	Bedrock Thickness (feet): 12.94	No. of samples: 0
Driller: William "Russ" Gordon	Drilling Company: Cascade Drilling LP	Drilling Rig: Geoprobe 814066		
Date: 09/06/2025 to 09/07/2025	Logged By: Josh Frasher	Reviewed By: Zachary Grosch	Approved By: Chris Hoglund	

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
391	0	Fill - Gravel (FILL)					Concrete: 0.00-2.00 ft bgs
	1	Clay with silt, dry, crumbles, dark brown (CL)					
390							
	2	Same as above, pale brown (CL)					High-Solids Bentonite Grout Slurry: 2.00-8.00 ft bgs
389				5.0 / 5.0			
	3	Clay with silt, some plasticity, yellowish brown with gray mottles, stiff, trace iron staining (CL)					
388							
	4						
387							
	5						
386							
	6						
385							
	7	Sand with clay (fine), some plasticity, light gray with heavy iron staining, dry to damp (SC)					
384				5.0 / 5.0			
	8						Bentonite: 8.00-12.00 ft bgs
383							
	9					▼	
382							
	10						
381		Sand with trace clay, wet, pale brown (SC)					
	11	Sand with trace clay, wet, pale brown					
380				3.0 / 3.0			
	12						
379							
	13	Highly weathered sandstone, pale brown to yellowish brown, some iron staining, breaks by hand					
378							
	14			2.0 / 2.0			Screen Top @ 14.29 ft bgs
377							
	15						
376							
	16						
375							
	17	Weathered sandstone, light yellowish brown, heavy iron staining					



AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

▽ Water Level At Time of Drilling: No Measure
▼ Water Level Directly After Drilling: No Measure
▼ Water Level Following Drilling: 9.27 ft

Fill (made ground)
Sandstone
Shale
USCS Clayey Sand
USCS Low Plasticity Clay

BURNS McDONNELL

Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-117

Northing/Easting	Latitude/Longitude	Ground Elevation	Page
410584.00 North, 1610652.98 East	37.453469 Lat, -87.091322 Long	391.55 ft AMSL	2 of 2

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
	18	Weathered sandstone, light yellowish brown, heavy iron staining					
373	19						Filter Sand: 12.00-25.54 ft bgs
372	20			8.0 / 10.0			
371	21						
370	22						
369	23	Shale, black					
368	24						Screen Bottom @ 24.29 ft bgs 0.25" end cap
367	25						
366	26	Boring Terminated at 25.54 feet bgs					
365	27						
364	28						
363	29						
362	30						
361	31						
360	32						
359	33						
358	34						
357	35						
356	36						
355	37						
354	38						

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Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-118

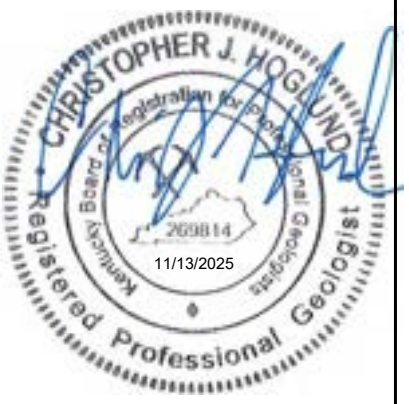
Northing/Easting	Latitude/Longitude	Ground Elevation	Page
410524.07 North, 1609001.94 East	37.453242 Lat, -87.097006 Long	405.35 ft AMSL	1 of 3

Total Depth (feet)	Hole Diameter (inches)	Overburden Thickness (feet)	Bedrock Thickness (feet)	No. of samples
45.00	7.25	0.80	40.20	0

Driller	Drilling Company	Drilling Rig
William "Russ" Gordon	Cascade Drilling LP	Geoprobe 814066

Date	Logged By	Reviewed By	Approved By
09/06/2025 & 09/15/2025 to 09/16/2025	Josh Frasher	Zachary Grosch	Chris Hoglund

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
405	0	Fill - Gravel (FILL)					Concrete: 0.00-2.00 ft bgs
404	1	Highly weathered sandstone, crumbles by hand, light yellowish brown, darkening with depth					
403	2			5.0 / 5.0			High-Solids Bentonite Grout Slurry: 2.00-19.00 ft bgs
402	3	Light reddish brown light/pale brown					
401	4	Same as above, reddish brown Same as above, trace silt, pale brown					
400	5	Pale brown to brown, sandstone, highly weathered					
399	6	Dark brown, sandstone, highly weathered					
398	7	Light reddish brown, sandstone, highly weathered		5.0 / 5.0			
397	8						
396	9						
395	10	Weathered sandstone, heavy iron staining, micaceous, pale brown					
394	11						
393	12			3.0 / 5.0			
392	13						
391	14						
390	15						
389	16						
388	17						



AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

Water Level At Time of Drilling: No Measure
Water Level Directly After Drilling: No Measure
Water Level Following Drilling: 19.14 ft

Fill (made ground)
Sandstone

BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-118
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	410524.07 North, 1609001.94 East	37.453242 Lat, -87.097006 Long	405.35 ft AMSL	2 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
387	18	Weathered sandstone, heavy iron staining, micaceous, pale brown		5.0 / 5.0			
386	19						Bentonite: 19.00-22.00 ft bgs
385	20						
384	21	Weathered iron stained sandstone, washed out during drilling					
383	22						
382	23						
381	24						
380	25			5.0 / 10.0			Screen Top @ 24.46 ft bgs
379	26						
378	27						
377	28	Slightly weathered sandstone, trace to some iron staining, light brownish grey, fine grained, trace organics					
376	29						Filter Sand: 22.00-35.21 ft bgs
375	30						
374	31	Light gray sandstone, fine grained, micaceous					
373	32						
372	33						
371	34						
370	35	Light gray sandstone, micaceous, fine grain		7.0 / 10.0			Screen Bottom @ 34.46 ft bgs 0.25" end cap Bentonite: 35.21-45.00 ft bgs
369	36						
368	37						
367	38						

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BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-118
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	410524.07 North, 1609001.94 East	37.453242 Lat, -87.097006 Long	405.35 ft AMSL	3 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
366	39	Light gray sandstone, micaceous, fine grain					
365	40			1.0 / 1.0			
364	41						
363	42						9/6/2024 4"X6" sonic drill rods stuck in ground. 4" stuck at 41 ft bgs and 6" stuck at 45 ft bgs. 9/15/2025 - advance 7" override casing and able to recover 4"X6" sonic drill rods.
362	43						
361	44						
360	45	Boring Terminated at 45.0 feet bgs					
359	46						
358	47						
357	48						
356	49						
355	50						
354	51						
353	52						
352	53						
351	54						
350	55						
349	56						
348	57						
347	58						
346	59						

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Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-119

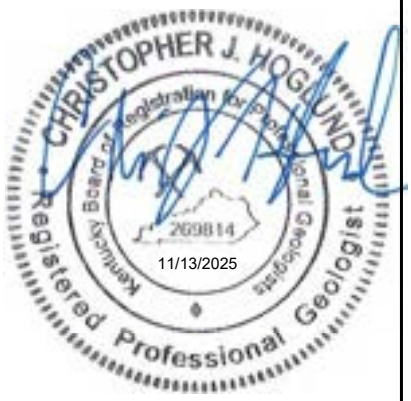
Northing/Easting	Latitude/Longitude	Ground Elevation	Page
411682.83 North, 1607346.67 East	37.456358 Lat, -87.102764 Long	392.67 ft AMSL	1 of 4

Total Depth (feet)	Hole Diameter (inches)	Overburden Thickness (feet)	Bedrock Thickness (feet)	No. of samples
70.00	6.25	67.00	3.00	0

Driller	Drilling Company	Drilling Rig
William "Russ" Gordon	Cascade Drilling LP	Geoprobe 814066

Date	Logged By	Reviewed By	Approved By
09/04/2025 to 09/05/2025	Josh Frasher	Zachary Grosch	Chris Hoglund

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
392	0	Fill - Gravel (FILL)					Concrete: 0.00-2.00 ft bgs
	1	Fill - Coal (FILL)					
391		Fill - Gravel (FILL)					
	2	Fill - Clay with silt, trace to some gravel, medium plasticity, dry, very stiff, brown to dark brown with yellowish brown mottling (FILL)		5.0 / 5.0			High-Solids Bentonite Grout Slurry: 2.00-51.00 ft bgs
390	3						
389		Fill - Red, very hard siltstone (FILL)					
	4	Fill - Clay with trace silt, medium plasticity, brown to dark brown, with sand lenses (FILL)					
388	5	Fill - Clay with trace silt, high plasticity, stiff, damp, dark brown with some black mottling, light brown mottling (FILL)					
387	6	Fill - Silt with gravel, black, dry, no plasticity (FILL)		5.0 / 5.0			
386	7	Fill - Clay, dark brown, trace silt, high plasticity, very stiff, damp (FILL)					
385	8	Fill - Becomes brownish gray, some black mottling (FILL)					
384	9	Fill - Sandstone, fine, micaceous, weathered, iron stained (FILL)					
383	10	Clay, trace to some silt, medium plasticity, some light grey mottling, very stiff (OH)					
382	11						
381	12			2.5 / 5.0			
380	13	Clay with silt, trace sand (fine), damp, brown with yellowish brown mottling, stiff (OH)					
379	14						
378	15	clay with some silt, high plasticity, very stiff, strong brown					
377	16						Centralizer at 16 ft bgs
376	17	same as above, thick organics Clay with silt, some sand lenses (fine) stiff, medium plasticity, brownish gray					



AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

Water Level At Time of Drilling: No Measure
Water Level Directly After Drilling: No Measure
Water Level Following Drilling: 27.80 ft

Fill (made ground)
Shale
USCS High Plasticity Organic silt or clay
USCS Low Plasticity Clay
USCS Poorly-graded Sand
USCS Well-graded Sand

BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-119
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	411682.83 North, 1607346.67 East	37.456358 Lat, -87.102764 Long	392.67 ft AMSL	2 of 4

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
375	18	Clay with silt, trace sand (fine), damp, brown with yellowish brown mottling, stiff (OH)		5.0 / 5.0			
374	19						
373	20						
372	21	Sand, some sand in cuttings (SW)					
371	22						
370	23			1.0 / 5.0			
369	24						
368	25	Clay with silt, medium plasticity, yellowish brown, stiff (CL)					
367	26						Centralizer at 26 ft bgs
366	27						
365	28	Clay, high plasticity, gray to dark gray, wet, stiff (OH)		5.0 / 5.0			▼
364	29						
363	30						
362	31	Clay with some silt, wet, high plasticity, light brown with light gray mottling, some sand lenses (fine) (OH)					
361	32						
360	33			5.0 / 5.0			
359	34						
358	35						
357	36						Centralizer at 36 ft bgs
356	37						
355	38			5.0 / 5.0			

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BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-119
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	411682.83 North, 1607346.67 East	37.456358 Lat, -87.102764 Long	392.67 ft AMSL	3 of 4

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
354	39	Clay with some silt, wet, high plasticity, light brown with light gray mottling, some sand lenses (fine) (OH)					
353	40	Clay, grey to dark grey, high plasticity, wet (OH)					
352	41						
351	42			5.0 / 5.0			
350	43						
349	44						
348	45						
347	46						Centralizer at 46 ft bgs
346	47			5.0 / 5.0			
345	48						
344	49						
343	50						
342	51						Bentonite: 51.00-54.00 ft bgs
341	52			5.0 / 5.0			Centralizer at 52 ft bgs
340	53	Sand (fine to very fine) trace clay rich zones, wet (SW)					
339	54						
338	55						
337	56						Screen Top @ 56.15 ft bgs
336	57			5.0 / 5.0			
335	58						
334	59						

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BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-119
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	411682.83 North, 1607346.67 East	37.456358 Lat, -87.102764 Long	392.67 ft AMSL	4 of 4

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
333	60	Sand (fine to very fine) trace clay rich zones, wet (SW)					
		Sand, fine, trace to some silt (SW)					
332	61						Filter Sand: 54.00-66.90 ft bgs
331	62						
330	63			5.0 / 5.0			
329	64						
		Sand (fine to medium) grey to greenish gray (SP)					
328	65						
327	66						Screen Bottom @ 66.15 ft bgs
326	67						0.25" end cap
		Weathered gray shale					Bentonite: 66.90-70.00 ft bgs
325	68			5.0 / 5.0			
324	69						
323	70						
		Boring Terminated at 70.0 feet bgs					
322	71						
321	72						
320	73						
319	74						
318	75						
317	76						
316	77						
315	78						
314	79						
313	80						

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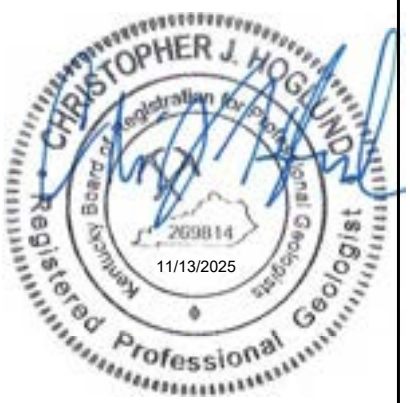
Project Name: Wilson MW Install	Project Location: Centertown, KY	Project No.: 188763	Boring/Well ID: MW-119a	
Northing/Easting: 411677.99 North, 1607346.02 East	Latitude/Longitude: 37.456344 Lat, -87.102767 Long	Ground Elevation: 392.55 ft AMSL	Page: 1 of 3	
Total Depth (feet): 45.48	Hole Diameter (inches): 6.25	Overburden Thickness (feet): 45.00	Bedrock Thickness (feet): 0.00	No. of samples: 0
Driller: William "Russ" Gordon	Drilling Company: Cascade Drilling LP	Drilling Rig: Geoprobe 814066		
Date: 09/05/2025	Logged By: Josh Frasher	Reviewed By: Zachary Grosch	Approved By: Chris Hoglund	

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
392	0	Washed out fill, no recovery. See co-located MW-119 drill log for missing 0-10 ft bgs lithology description.					Concrete: 0.00-2.00 ft bgs
391	1						
390	2						High-Solids Bentonite Grout Slurry: 2.00-28.00 ft bgs
389	3						
388	4						
387	5						
386	6						
385	7			5.0 / 15.0			
384	8						
383	9						
382	10	Clay with sand (fine), some silt, some gravel, trace to some plasticity, brown, stiff, damp (CL)					▼
381	11						
380	12	Sand lense, fine, gravel Clay with some silt, some gravel, trace sand, high plasticity, damp to moist, heavy organics, gray with dark brown mottling, very stiff (OH)					
379	13						
378	14						
377	15	No recovery, see co-located MW-119 drill log for missing 15-22 ft bgs lithology description					
376	16						
	17						



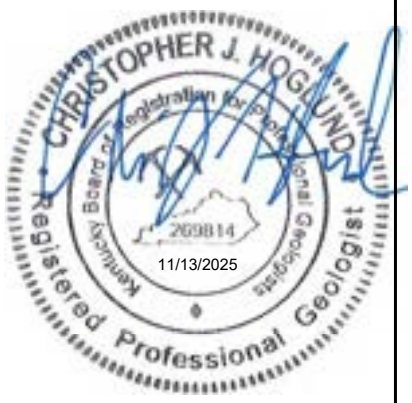
AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

▽ Water Level At Time of Drilling: No Measure
▼ Water Level Directly After Drilling: No Measure
▼ Water Level Following Drilling: 10.05 ft

USCS High Plasticity Organic silt or clay
USCS Low Plasticity Clay
USCS Poorly-graded Gravelly Sand

BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-119a
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	411677.99 North, 1607346.02 East	37.456344 Lat, -87.102767 Long	392.55 ft AMSL	2 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
	18	No recovery, see co-located MW-119 drill log for missing 15-22 ft bgs lithology description					
374							
	19						
373							
	20			3.0 / 10.0			
372							
	21						
371							
	22	Clay with some silt, some gravel, trace sand, high plasticity, damp to moist, heavy organics, gray with dark brown mottling, very stiff (OH)					
370							
	23						
369							
	24						
368							
	25	Clay with silt very stiff, medium plascticity, strong brown (CL)					
367							
	26						
366							
	27			5.0 / 5.0			
365							
	28						Bentonite: 28.00-32.00 ft bgs
364							
	29	Same as above, trace clay, light grey (CL)					
363							
	30						
362							
	31						
361							
	32	Clay with sand, medium to high plasticity, wet, brownish grey, low stiffness (OH)		4.0 / 5.0			
360							
	33						
359							
	34						
358							Screen Top @ 34.73 ft bgs
	35						
357							
	36	Clay, high plasticity, light brownish gray, heavy iron staining (OH)					
356							
	37			5.0 / 5.0			
355							
	38						



BURNS McDONNELL

Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-119a

Northing/Easting	Latitude/Longitude	Ground Elevation	Page
411677.99 North, 1607346.02 East	37.456344 Lat, -87.102767 Long	392.55 ft AMSL	3 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
	39	Clay, high plasticity, light brownish gray, heavy iron staining (OH)					Filter Sand: 32.00-45.48 ft bgs
353		Clay, high plasticity, brown, trace iron staining (OH)					
	40						
352							
	41						
351							
	42			5.0 / 5.0			
350							
	43						
349							
	44						
348							Screen Bottom @ 44.73 ft bgs
	45						0.25" end cap
347		Boring Terminated at 45.48 feet bgs					
	46						
346							
	47						
345							
	48						
344							
	49						
343							
	50						
342							
	51						
341							
	52						
340							
	53						
339							
	54						
338							
	55						
337							
	56						
336							
	57						
335							
	58						
334							
	59						

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Project Name	Project Location	Project No.	Boring/Well ID
Wilson MW Install	Centertown, KY	188763	MW-120

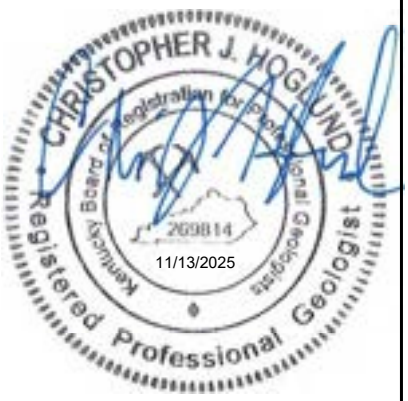
Northing/Easting	Latitude/Longitude	Ground Elevation	Page
411220.20 North, 1608852.50 East	37.455147 Lat, -87.097556 Long	418.22 ft AMSL	1 of 3

Total Depth (feet)	Hole Diameter (inches)	Overburden Thickness (feet)	Bedrock Thickness (feet)	No. of samples
45.00	6.25	45.00	0.00	0

Driller	Drilling Company	Drilling Rig
William "Russ" Gordon	Cascade Drilling LP	Geoprobe 814066

Date	Logged By	Reviewed By	Approved By
09/09/2025	Josh Frasher	Zachary Grosch	Chris Hoglund

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
418	0	Fill - Clay, dry, light yellowish brown, suspected cover material (FILL)					Concrete: 0.00-2.00 ft bgs
417	1	Mine Spoils - Weathered sandstone cobbles, light yellowish brown					
416	2	Mine Spoils - Shale, weathered, dark gray		5.0 / 5.0			High-Solids Bentonite Grout Slurry: 2.00-30.00 ft bgs
415	3						
414	4						
413	5	Mine Spoils - Clay with silt, shale and sandstone cobble gravel, dark grayish brown (CL)					
412	6						
411	7			3.0 / 5.0			
410	8						
409	9						
408	10	Mine Spoils - Same as above (CL)					
407	11						
406	12						
405	13						
404	14						
403	15			6.0 / 10.0			
402	16						
401	17						



AMSL - above mean seal level
bgs - below ground surface
ft - foot/feet
USCS - Unified Soil Classification System

Water Level At Time of Drilling: No Measure
Water Level Directly After Drilling: No Measure
Water Level Following Drilling: 32.92 ft

Fill (made ground)
Sandstone
Shale
USCS Low Plasticity Clay

BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-120
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	411220.20 North, 1608852.50 East	37.455147 Lat, -87.097556 Long	418.22 ft AMSL	2 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
400	18	Mine Spoils - Same as above (CL)					
399	19						
398	20	Mine Spoils - Same as above, trace clay, sandstone and shale cobbles (CL)					
397	21						
396	22			5.0 / 5.0			
395	23						
394	24						
393	25						
392	26	Mine Spoils - Same as above (CL)					
391	27			5.0 / 5.0			
390	28						
389	29						
388	30	Mine Spoils - Damp (CL)					Bentonite: 30.00-32.50 ft bgs
387	31	Mine Spoils - Same as above (CL)					
386	32			5.0 / 5.0			
385	33						
384	34						Screen Top @ 34.25 ft bgs
383	35	Mine Spoils - Same as above, wet (CL)					
382	36						
381	37			5.0 / 5.0			
380	38						

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BURNS McDONNELL	Project Name	Project Location	Project No.	Boring/Well ID
	Wilson MW Install	Centertown, KY	188763	MW-120
	Northing/Easting	Latitude/Longitude	Ground Elevation	Page
	411220.20 North, 1608852.50 East	37.455147 Lat, -87.097556 Long	418.22 ft AMSL	3 of 3

Elev. (AMSL)	Depth (ft bgs)	Description	Graphic Log	Recov. (ft/ft)	Blow Count	Well	Remarks
379	39	Mine Spoils - Same as above, wet (CL)					Filter Sand: 32.50-45.00 ft bgs
378	40	Mine Spoils - Same as above, wet, more, longer shale channels (CL)		5.0 / 5.0			
377	41						
376	42						
375	43						
374	44						Screen Bottom @ 44.25 ft bgs 0.25" end cap
373	45	Boring Terminated at 45.0 feet bgs					
372	46						
371	47						
370	48						
369	49						
368	50						
367	51						
366	52						
365	53						
364	54						
363	55						
362	56						
361	57						
360	58						
359	59						

Appendix G – Field Photographs

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Typical drilling setup for roto-sonic drilling. At Monitoring Well MW-110A. Photo looking southwest. 9/3/2025
	Typical decontamination of roto-sonic drill casing/tooling prior to the start of drilling. Decontamination pad set up in central location to all new monitoring well locations. Photo looking southwest. 9/7/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Typical installation of monitoring well. At Monitoring Well MW-105B. Photo looking south. 9/4/2025
	Typical construction of monitoring well. Addition of sand filter pack and gauging of top of sand depth with measuring tape. Photo looking south. 9/4/2025

APPENDIX C – SITE PHOTO LOG
Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Typical construction of monitoring well. Addition of bentonite pellets for bentonite seal directly above sand filter pack. Photo looking west. 9/4/2025
	Typical setup for mixing of high-solids bentonite grout per manufacture specifications. Photo looking east. 9/5/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Typical installation of monitoring well. Placing annular seal of high-solids bentonite grout via tremie pipe. Photo looking southeast. 9/5/25
	Photo showing centralizers installed on Monitoring Well MW-119. Placed every 10 feet from starting near the bentonite seal. 9/5/25

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Typical completion of monitoring well pad with protective casing pushed into concrete slurry. At Monitoring Wells MW-119A/119. Photo looking south 9/9/25
	Typical completion of Monitoring Well using auger to drill holes for bollard post. At Monitoring Wells MW-115A/115. Photo looking northwest. 9/17/25

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Photo showing typical weep hole drilled into steel protective casing of monitoring well. 9/19/2025
	Completed Monitoring Well MW-110A. Photo looking south. 9/19/25

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Completed Monitoring Well MW-105B. Adjacent to existing Monitoring Well MW-105R (in background) Photo looking east. 9/19/2025
	Completed Monitoring Well MW-116. Photo looking south. 9/19/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Completed Monitoring Well MW-117. Photo facing south 9/19/2025
	Completed Monitoring Well MW-120. Photo facing northeast. 9/19/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Completed Monitoring Wells MW-119 (left) and MW-119A (right). The six bollard layout around co-located clustered monitoring wells with KDWM and KDOW approved variance. Photo looking east. 9/19/2025
	Completed Monitoring Well MW-118. Photo looking west. 9/19/25

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Completed Monitoring Wells MW-115 (left) and MW-115A (right). The six bollard layout around co-located clustered monitoring wells with KDWM and KDOW approved variance. Photo facing east 9/19/2025
	Monitoring Well MW-110A recovered soil core from 0 to 5 ft bgs (top at left). Clay with silt, weak, trace-some coal fragments. 9/3/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-110A recovered soil cores: Orange arrow showing 5 to 10 ft bgs (top on left). Clay, trace to some silt. Blue arrow showing 10 to 15 ft bgs (top on left). Clay, trace to some silt. 9/3/2025
	Monitoring Well MW-110A recovered soil core: Orange arrow showing soil cuttings from 15 to 20 ft bgs (top on left). Clay, trace to some silt with bottom comprised of sand with some clay. 9/3/2025

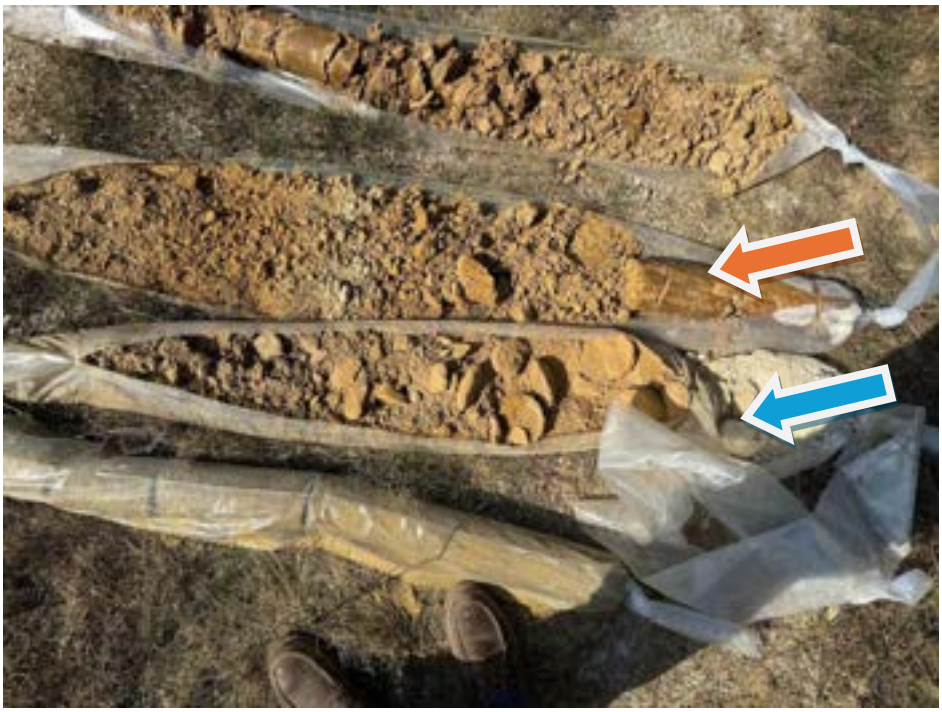
APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-110A recovered soil core from 20 to 25 ft bgs (top on left). Sand at top transitioning into weathered light gray sandstone. 4/25/23
	Monitoring Well MW-105B recovered soil core from 0 to 5 ft bgs (top on left). Clay, trace-some silt. 9/3/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-105B recovered soil cores: Orange arrow showing 5 to 10 ft bgs (top on left). Clay with sand transitioning to highly weathered sandstone (fine grain). Blue arrow showing 10 to 15 ft bgs (top on left). Weathered sandstone (iron stained) transitioning into gray sandstone. 9/3/2025
	Monitoring Well MW-105B recovered soil cores: Orange arrow showing 15 to 20 ft bgs (top on left). Slightly weathered gray sandstone, more competent than above sandstone. Blue arrow showing 20 to 25 ft bgs (top on left). Sandstone, fine-medium grain, micaceous, gray, more competent than above sandstone. 9/3/2025

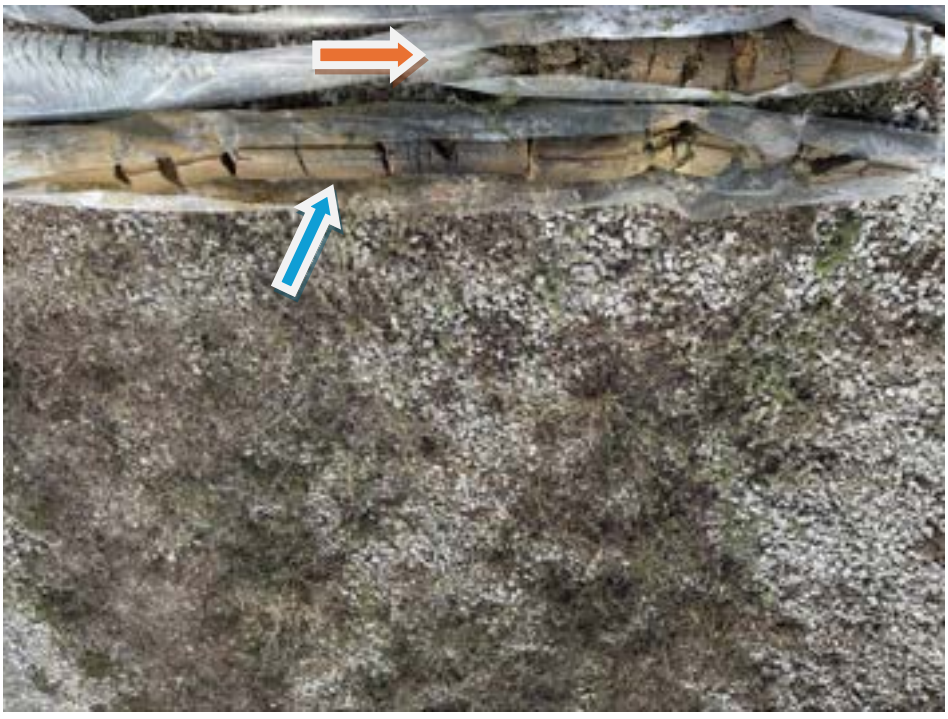
APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-105B recovered soil core at bottom from 25 to 28 ft bgs (top on left). Sandstone, light gray, micaceous, organic debris (silt-fine sand), healed fractures. 9/3/2025
	Monitoring Well MW-119 recovered soil core showing 0 to 5 ft bgs (top on left). Fill material. 9/4/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-119 recovered soil core showing 5 to 10 ft bgs (top on left). Fill material transitioning out of fill around 9-10 ft bgs. 9/4/2025
	Monitoring Well MW-119 recovered soil cores: Orange arrow shows 10 to 15 ft bgs (top on left). Clay, trace-some silt, trace fine sand. Blue Arrow shows 15 to 20 ft bgs (top on left). Clay, with silt, some sand lenses (fine grain). 9/4/2025

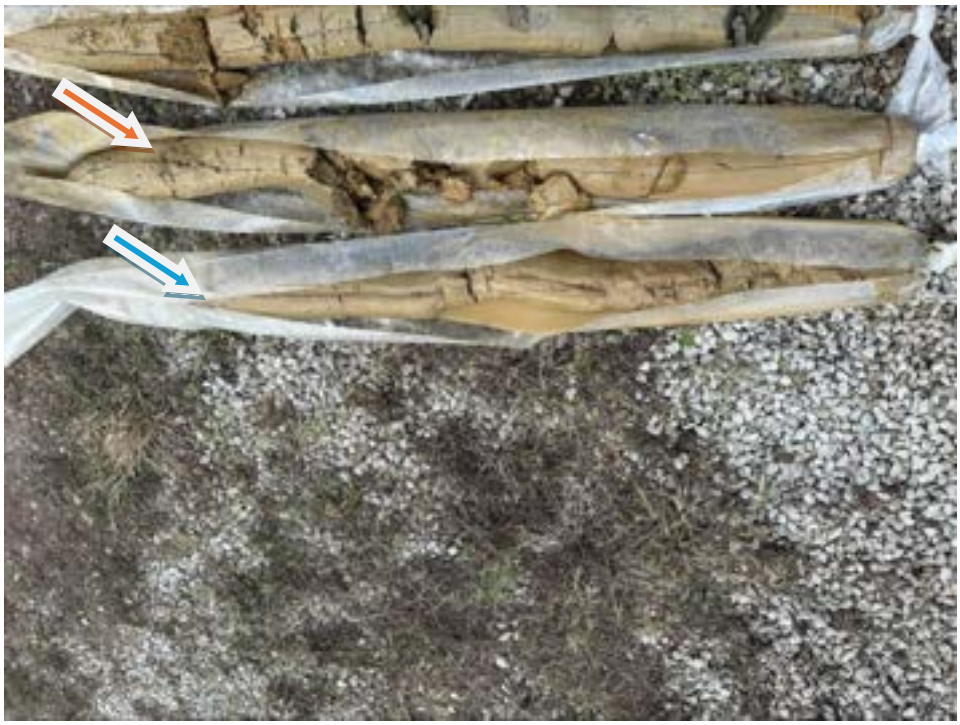
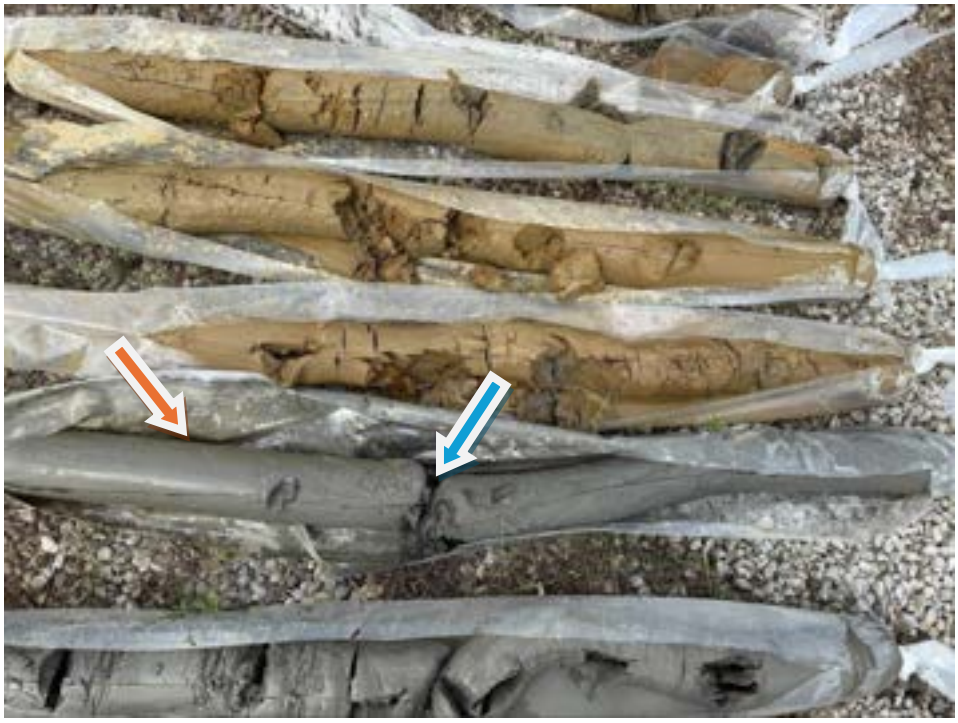
APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-119 recovered soil cores showing 20 to 25 ft bgs (top on left). Poor recovery was believed to be a sand zone washed away during drilling as sand was observed in cuttings. 9/4/2025
	Monitoring Well MW-119 recovered soil core showing 25 to 30 ft bgs (top on left). Clay with silt, stiff, wet at 27 feet bgs. 9/4/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-119 recovered soil cores: Orange arrow shows 30 to 35 ft bgs (top on left). Clay, some silt, some sand lenses, wet. Blue arrow shows 35 to 40 ft bgs (top on left). Clay, some silt, some sand lenses, wet. 9/4/2025
	Monitoring Well MW-119 recovered soil core showing 40 to 45 ft bgs (orange arrow; top on left). Clay, gray, wet. Sandy zone with wood fibers identified by blue arrow. 9/4/2025

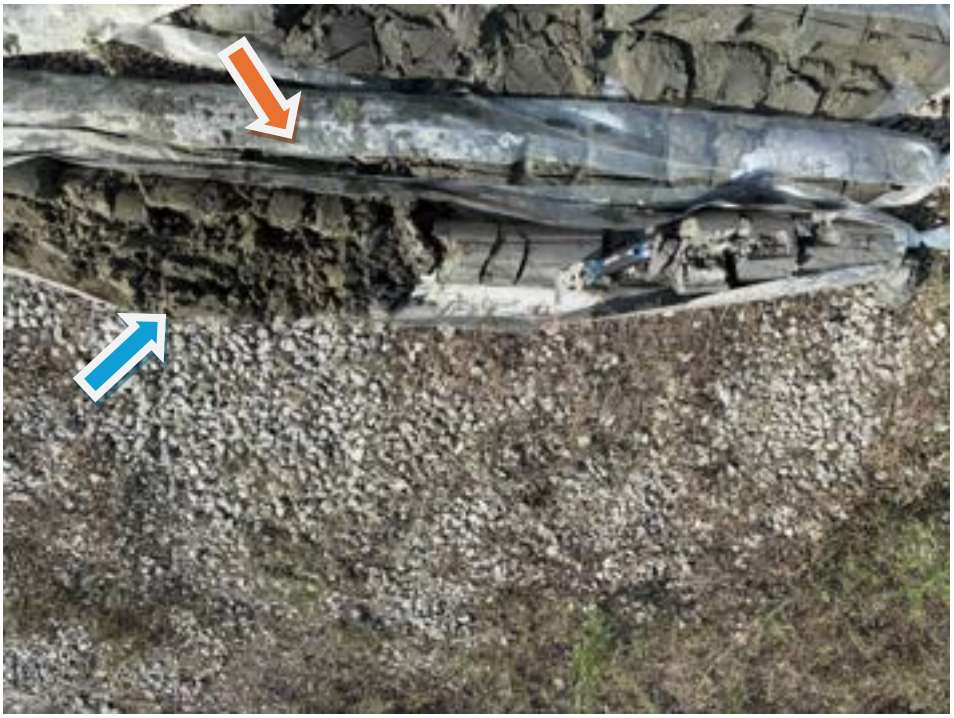
APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-119 recovered soil core from 45 to 50 ft bgs (top on left). Clay, gray, wet. 9/4/2025
	Monitoring Well MW-119 recovered soil cores: Orange arrow showing 50 to 55 ft bgs (top on left). Clay, gray, and wet. Transition to sand (fine to very fine) trace clay, wet. Blue arrow showing 55 to 60 ft bgs (top on left). Sand, fine to very fine grain, trace clay, wet. 9/4/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-119 recovered soil cores: Orange arrow showing 60 to 65 ft bgs (top on left). Clay with fine sand. Blue arrow showing 65 to 70 ft bgs (top on left). Sand, fine to medium grained, trace-some silt, gray to greenish gray. Overlying shale bedrock encountered at 67 ft bgs. 9/4/2025
. 	Monitoring Well MW-119 recovered soil core from 65 to 67 ft bgs (top on left). Close up of fine to medium grained sand overlying shale bedrock. 9/4/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-118 recovered soil core from 0 to 5 ft bgs (top on left). Highly weathered sandstone, dry, and weak. 9/6/2025
. 	Monitoring Well MW-118 recovered soil cores: Orange arrow showing 5 to 10 ft bgs (top on left). Highly weathered sandstone. Blue arrow showing bottom 8 to 10ft bgs that was recovered on next run. Highly weathered sandstone. 9/6/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-118 recovered soil cores with orange arrow showing 10 to 15 ft bgs (top on left). Sandstone, micaceous, weathered with iron staining, more competent sandstone than above. 9/6/2025
. 	Monitoring Well MW-118 recovered soil core from 15 to 20 ft bgs (top on left). Sandstone transition from weathered (pale brown) to less weathered (brownish gray). 9/6/2025

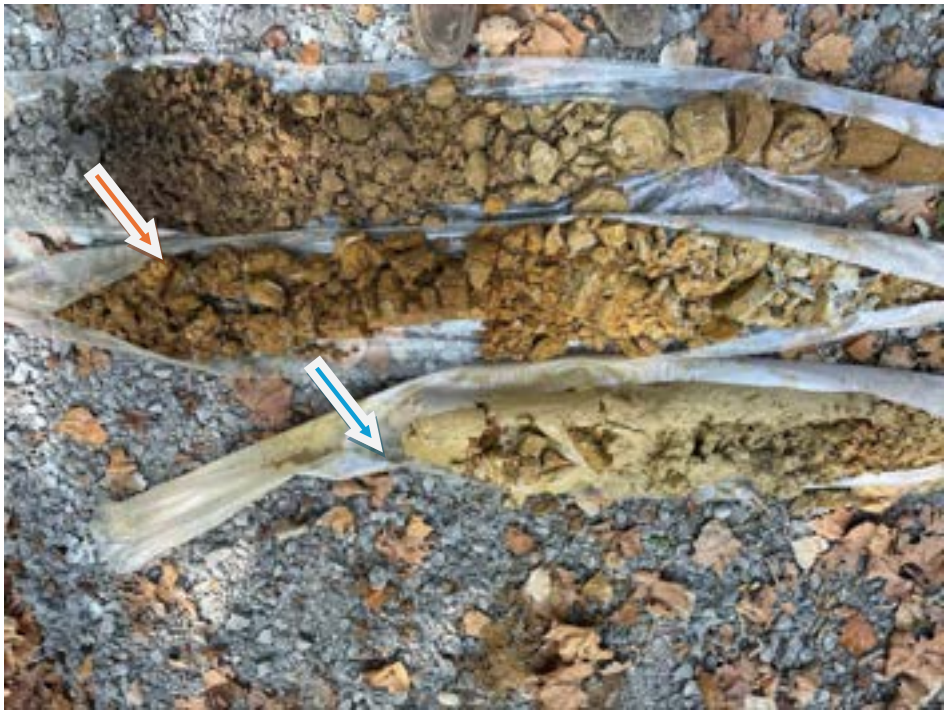
APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-118 recovered soil core from 20 to 30 ft bgs (top on left) most of cuttings washed away during drilling. Interpreted as weathered weak sandstone transitioning to gray sandstone with trace organic debris (silt-fine sand). 9/6/2025
.	Monitoring Well MW-118 recovered soil core from 30 to 40 ft bgs (top on left). Sandstone, light gray, fine grained, micaceous. 9/6/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-117 recovered soil core from 0 to 5 ft bgs (top on left). Clay with silt, some iron staining. 9/6/2025
	Monitoring Well MW-117 recovered soil cores: Orange arrow from 5 to 10 ft bgs (top on left). Clay transition to sand with clay with iron staining. Blue arrow from 10 to 13 ft bgs (top on left). Sand with clay transition to sand with trace clay with bottom comprised of highly weathered sandstone. 9/6/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-117 recovered soil core from 13 to 15 ft bgs (top on left). Highly weathered sandstone, some iron staining. 9/6/2025
	Monitoring Well MW-117 recovered soil core from 15 to 25 ft bgs (top on left). Shale encountered at 22.5 ft bgs. Weathered sandstone transitioning to black shale. 9/6/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-116 recovered soil cores: Orange arrow showing both fill and mine spoils 0 to 5 ft bgs (top on left). Blue arrow showing mine spoils 5 to 10 ft bgs (top on left). 9/7/2025
	Monitoring Well MW-116 recovered soil cores: Orange arrow mine spoils from 10 to 15 ft bgs (top on left). Blue arrow mine spoils from 15 to 20 ft bgs (top on left). 9/7/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-116 recovered soil cores: Orange arrow showing mine spoils from 20 to 25 ft bgs (top on left). Blue arrow showing mine spoils from 25 to 29 ft bgs with bottom 1-foot comprised of transition from mine spoils to clay (top on left). Mine spoils ended at approximately 29-30 ft bgs. 9/7/2025
	Monitoring Well MW-116 recovered soil cores: Orange arrow from 30 to 40 ft bgs (top on left). Clay, trace-some silt. Blue arrow from 40 to 45 ft bgs (top on left). Clay, trace-some silt. 9/7/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-120 recovered soil cores: Orange arrow mine spoils from 0 to 5 ft bgs (top on left). Blue arrow mine spoils from 5 to 10 ft bgs (top on left). 9/9/2025
	Monitoring Well MW-120 recovered soil cores: Orange arrow mine spoils from 10 to 15 ft bgs (top on left). Blue arrow mine spoils from 15 to 20 ft bgs (top on left). 9/9/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-120 recovered soil cores: Orange arrow mine spoils from 20 to 25 ft bgs (top on left). Blue arrow mine spoils from 25 to 30 ft bgs (top on left). 9/9/2025
	Monitoring Well MW-120 recovered soil cores: Orange arrow mine spoils from 30 to 40 ft bgs (top on left). Blue arrow mine spoils from 40 to 45 ft bgs (top on left). 9/9/2025

APPENDIX C – SITE PHOTO LOG

Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-115 recovered soil cores: Orange arrow from 0 to 5 ft bgs (top on left). Clay with silt, some fine sand. Blue arrow from 5 to 10 ft bgs (top on left). Clay with some silt. 9/16/2025
	Monitoring Well MW-115 recovered soil cores: Orange arrow from 10 to 15 ft bgs (top on left). Clay with some silt. Blue arrow from 15 to 25 ft bgs (top on left). Clay with some silt. 9/16/2025

APPENDIX C – SITE PHOTO LOG

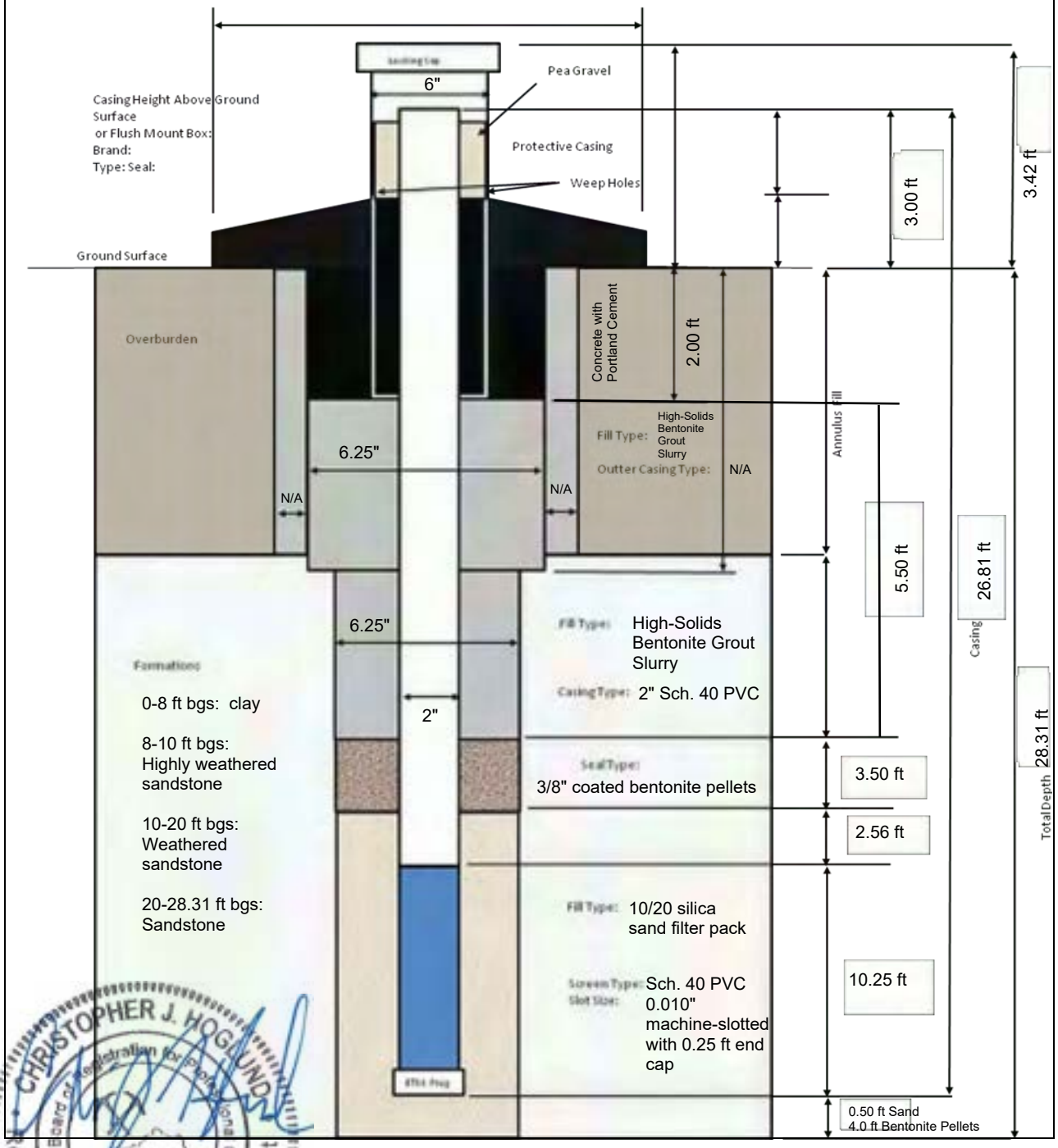
Monitoring Well Installation Report
Big Rivers Electric Corporation
D.B. Wilson Station
Centertown, Kentucky

Photograph	Description
	Monitoring Well MW-115 recovered soil cores: Orange arrow from 25 to 30 ft bgs (top on left). Clay with some silt. Blue arrow from 30 to 35 ft bgs (top on left). Shale, black, carbonaceous, with thinly interbedded coal. 9/7/2025
	Monitoring Well MW-115 recovered soil core from 35 to 45 ft bgs (orange arrow; top on left). Shale, black, carbonaceous, with thinly interbedded coal at top transitioning to light gray shale. 9/16/2025

Appendix H - Downhole Camera Videos (Electronic Deliverable)

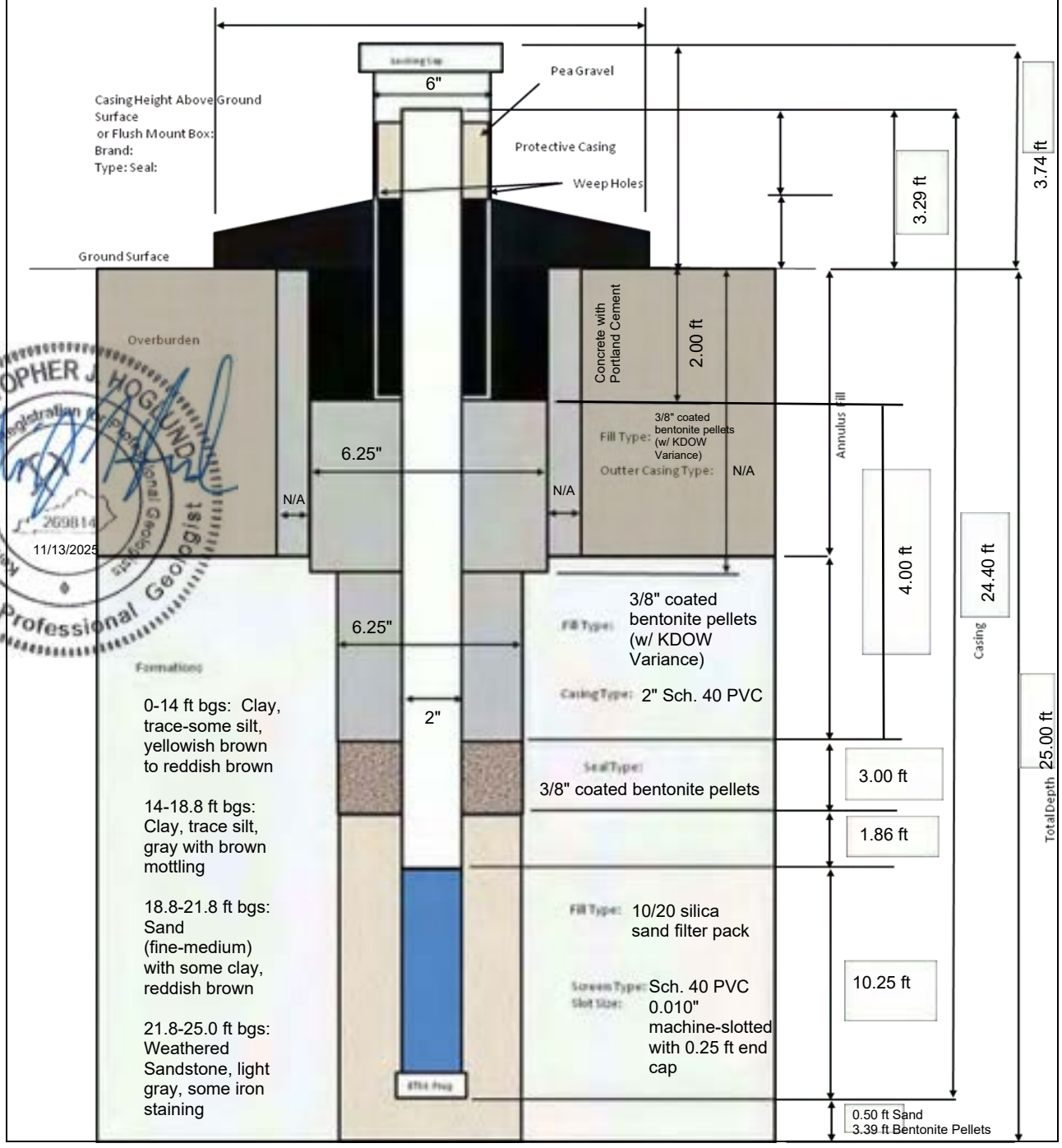
Appendix I – Monitoring Well Construction Diagrams

Project # 188763	Date Installed 9/4/2025	Well ID# MW-105B 8008-0536
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 393.72 ft amsl	**Top of Casing Elevation** 396.72 ft amsl	**Bottom of Boring Elevation** 365.41 ft amsl



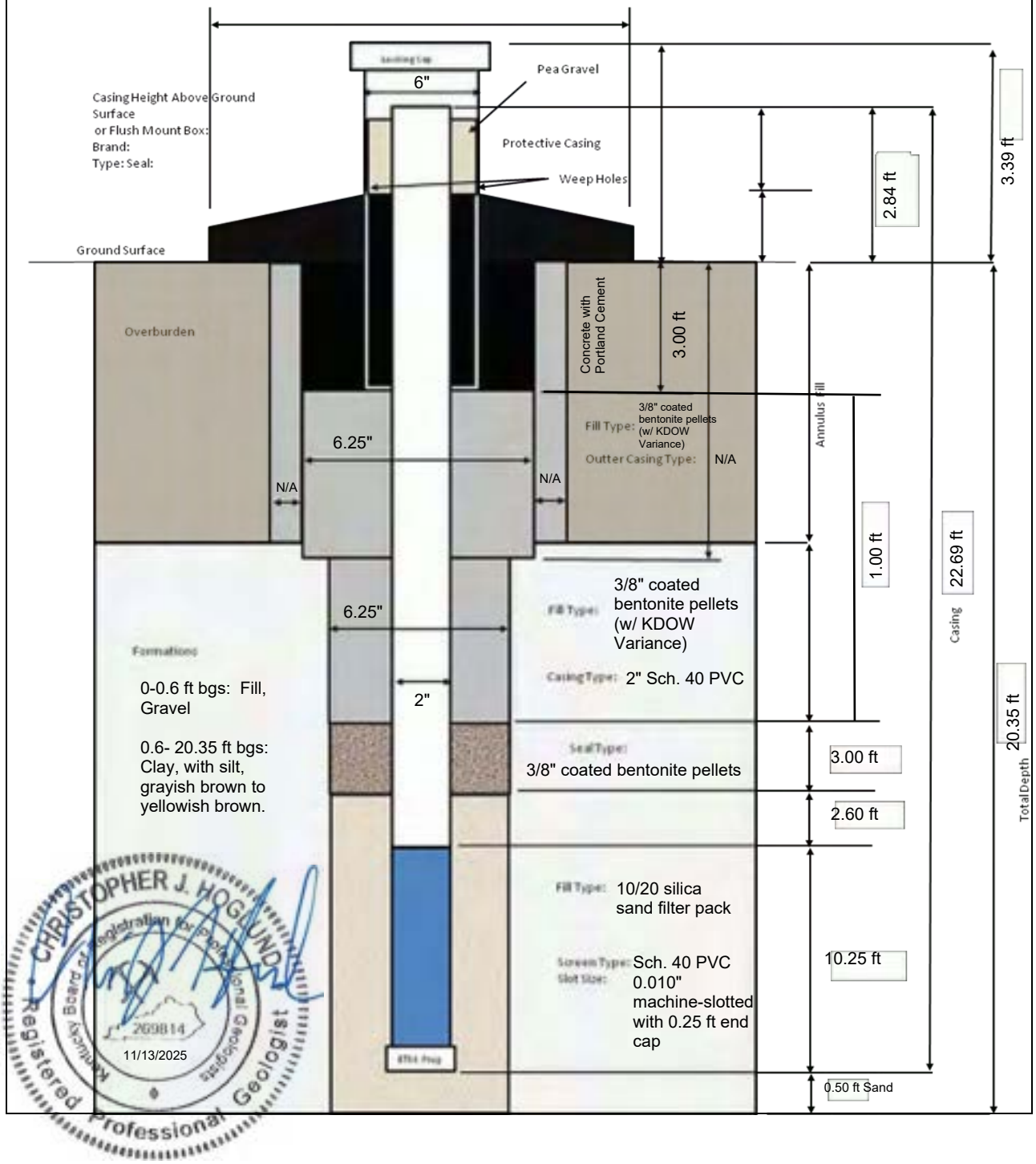
CHRISTOPHER J. HOGLUND
Registered Professional Geologist
Kentucky Board of Registration for Professional Geologists
269814
11/13/2025

Project # 188763	Date Installed 9/3/2025	Well ID# MW-110A 8008-0537
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 390.53 ft amsl	**Top of Casing Elevation** 393.82 ft amsl	**Bottom of Boring Elevation** 365.92 ft amsl

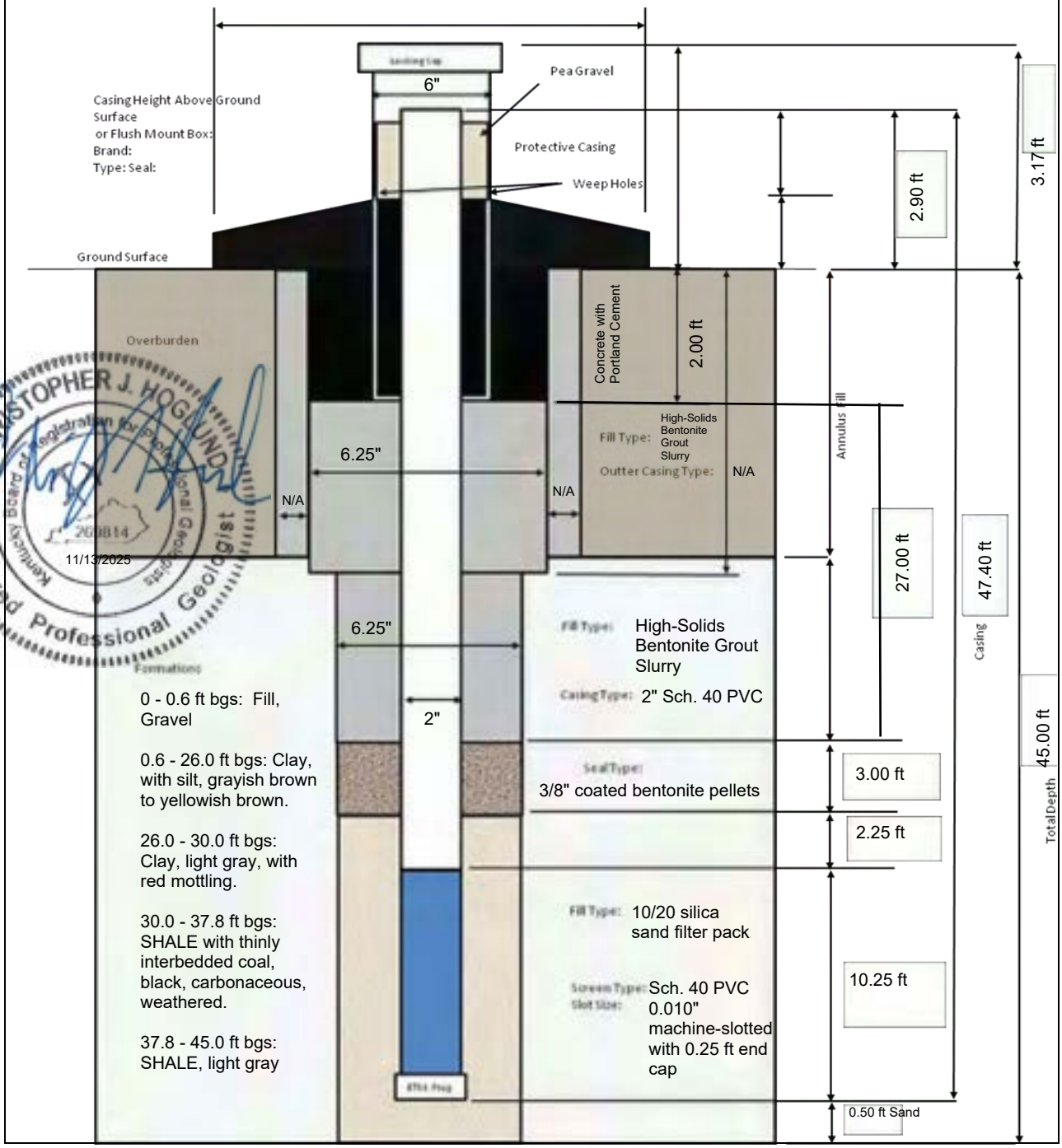


CHRISTOPHER J. HOGLUND
Kentucky Board of Registration for Professional Geologists
269814
11/13/2025
Registered Professional Geologist

Project # 188763	**Date Installed** 9/17/2025	**Well ID#** MW-115A 8008-0545
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 389.95 ft amsl	**Top of Casing Elevation** 392.79 ft amsl	**Bottom of Boring Elevation** 369.60 ft amsl

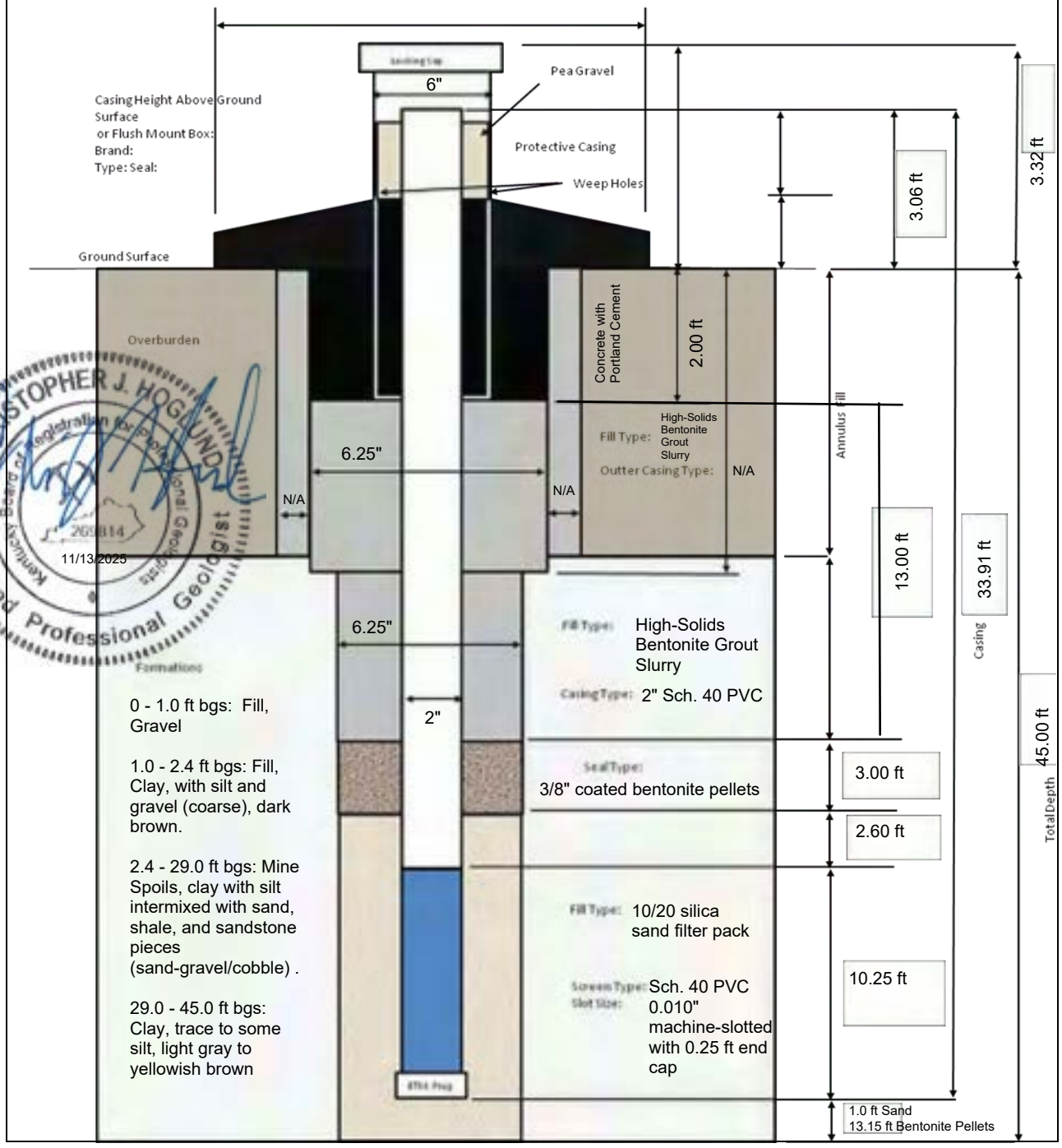


Project # 188763	**Date Installed** 9/4/2025	**Well ID#** MW-115 8008-0544
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 389.86 ft amsl	**Top of Casing Elevation** 392.76 ft amsl	**Bottom of Boring Elevation** 344.88 ft amsl



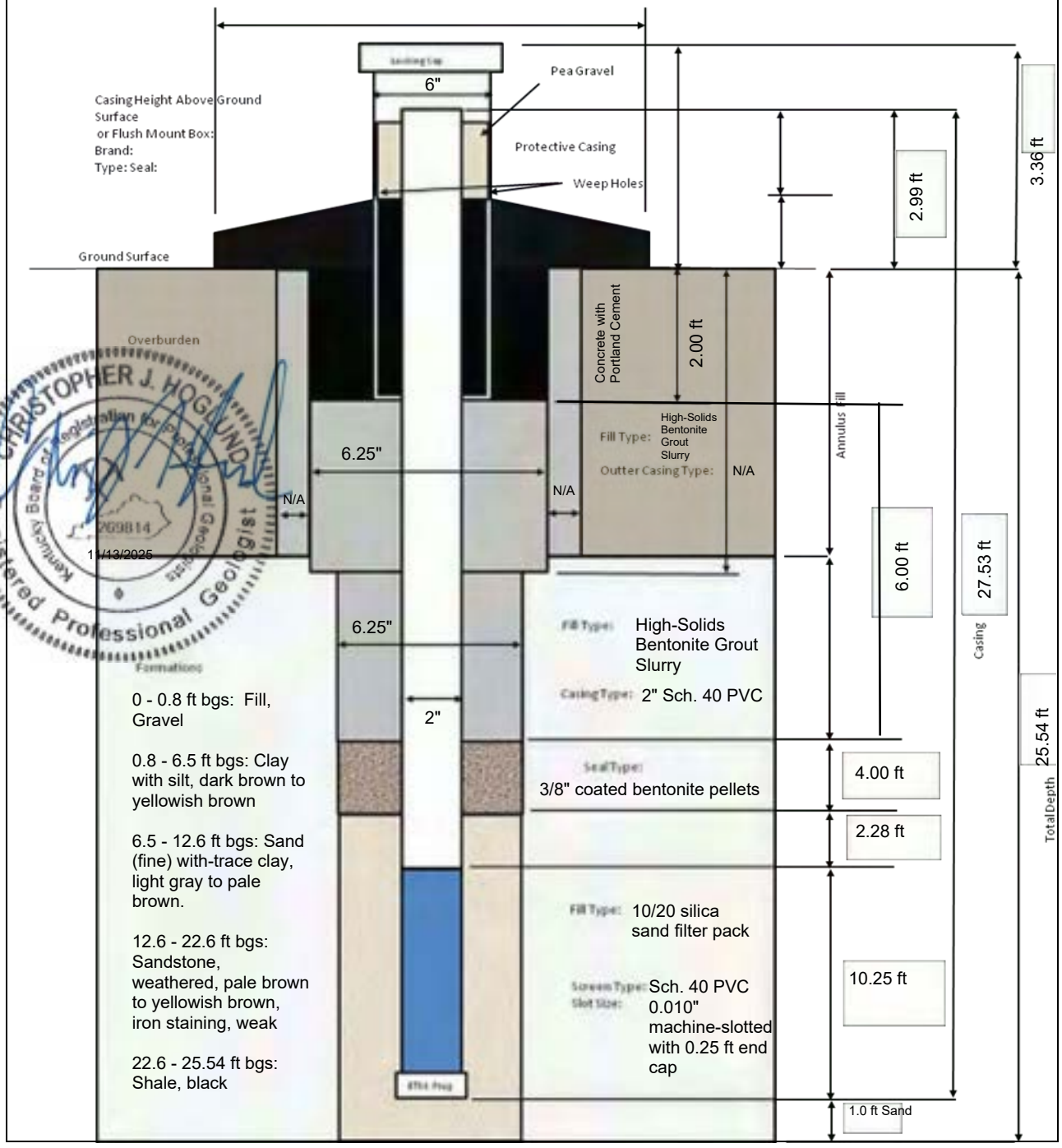
CHRISTOPHER J. HOGLUND
Registered Professional Geologist
Kentucky Board of Registration for Professional Geologists
26814
11/13/2025

Project # 188763	Date Installed 9/7/2025	Well ID# MW-116 8008-0543
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 409.31 ft amsl	**Top of Casing Elevation** 412.37 ft amsl	**Bottom of Boring Elevation** 364.46 ft amsl



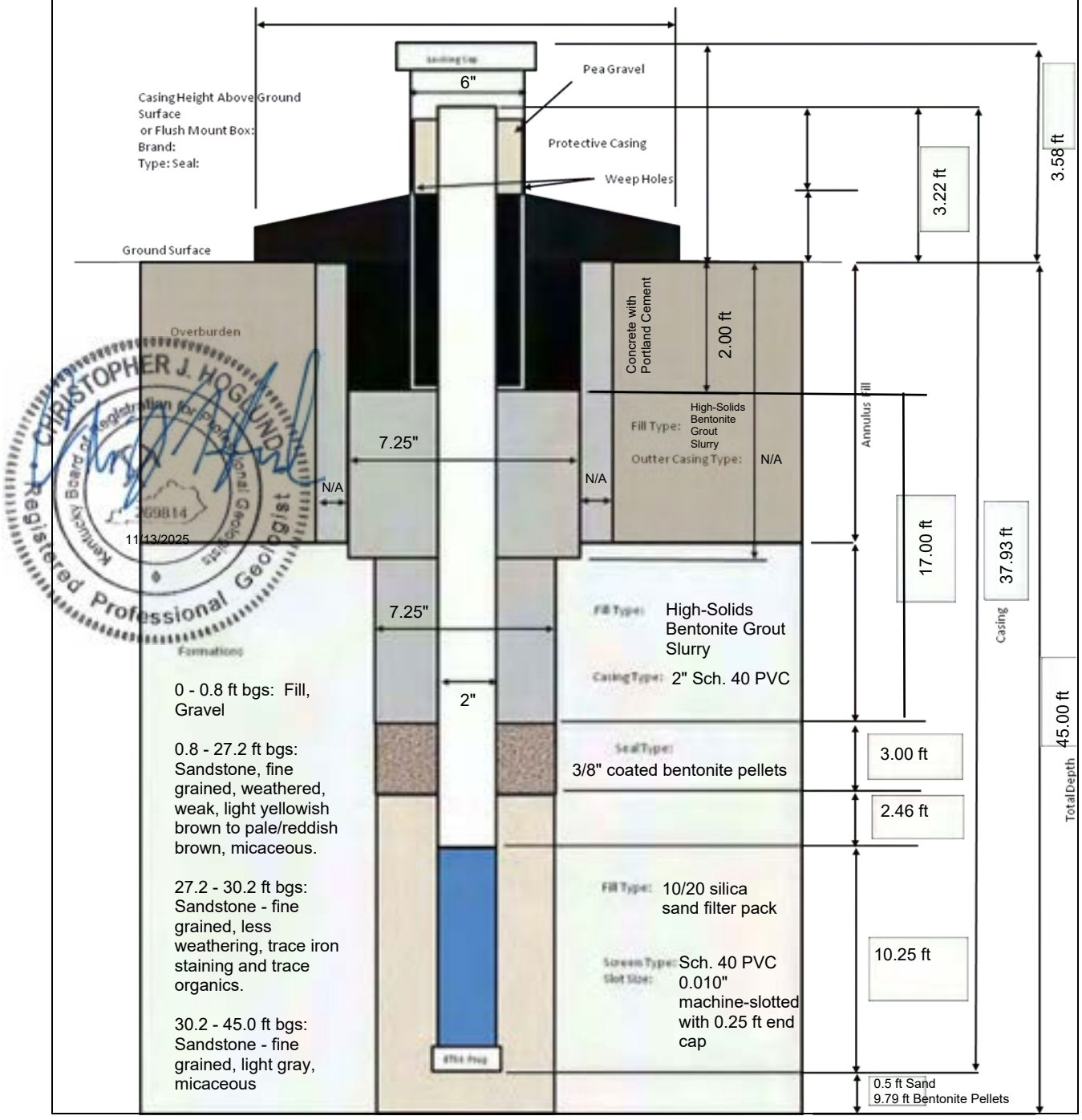
CHRISTOPHER J. HOGLUND
Registered Professional Geologist
11/13/2025

Project # 188763	**Date Installed** 9/6-7/2025	**Well ID#** MW-117 8008-0542
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 391.55 ft amsl	**Top of Casing Elevation** 394.54 ft amsl	**Bottom of Boring Elevation** 366.02 ft amsl



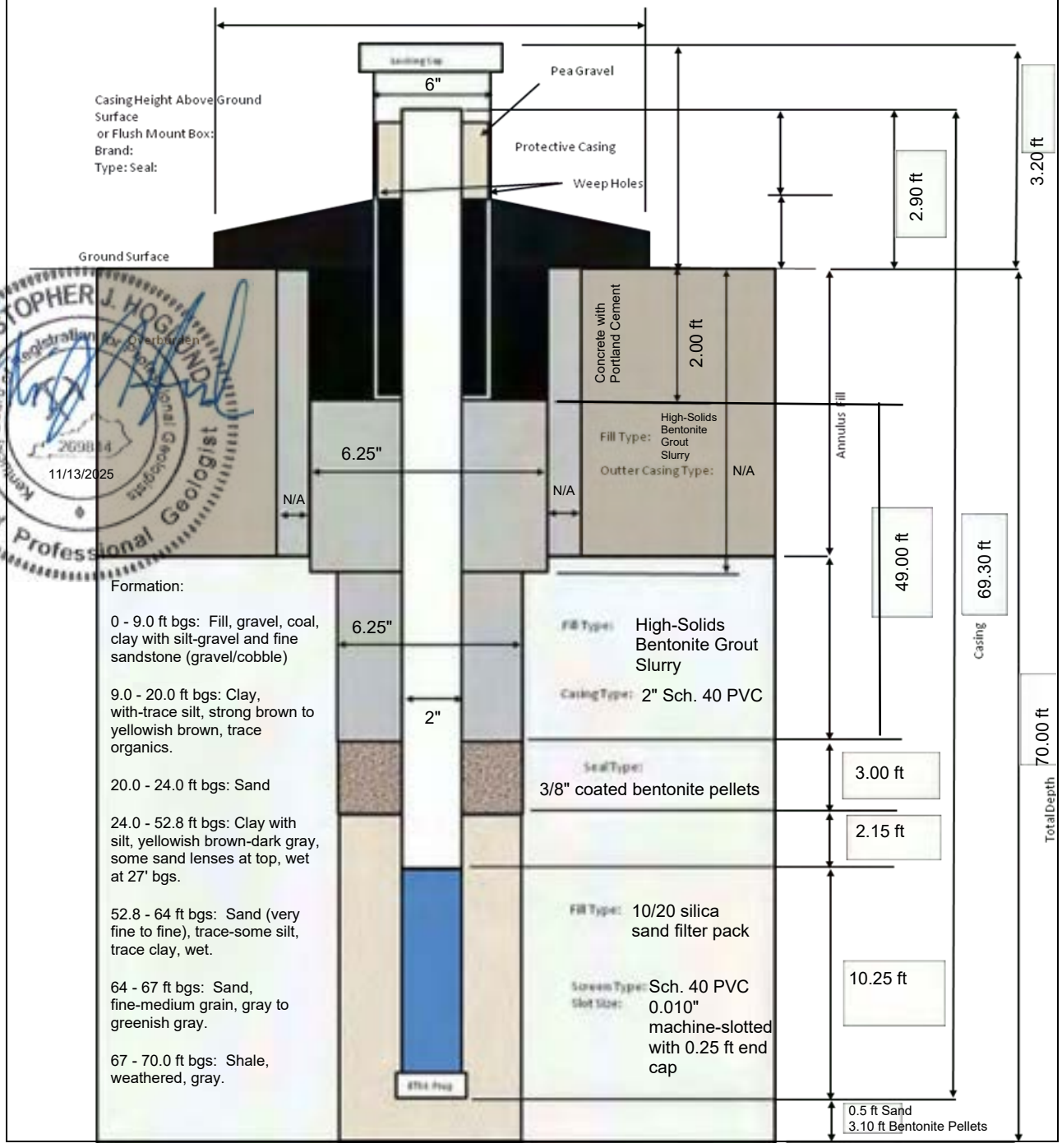
CHRISTOPHER J. HOGAN
Kentucky Board of Registration for Professional Geologists
269814
Registered Professional Geologist
11/13/2025

Project # 188763	Date Installed 9/6/2025, 9/15-16/2025	Well ID# MW-118 8008-0541
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 405.35 ft amsl	**Top of Casing Elevation** 408.57 ft amsl	**Bottom of Boring Elevation** 364.64 ft amsl



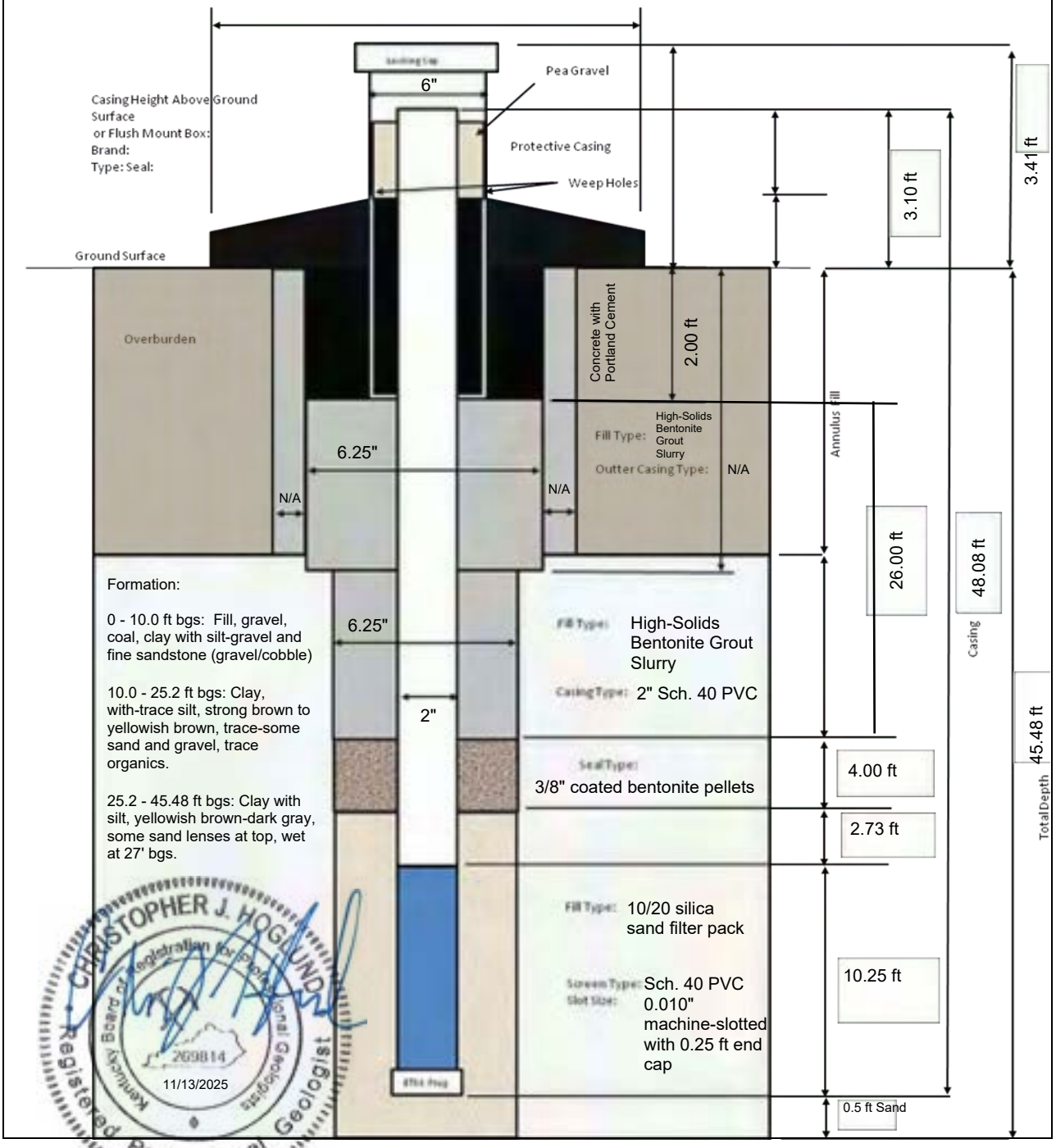
CHRISTOPHER J. HOGLUND
Kentucky Board of Registration for Professional Geologists
269814
11/13/2025
Registered Professional Geologist

Project # 188763	Date Installed 9/4-5/2025	Well ID# MW-119 8008-0538
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 392.67 ft amsl	**Top of Casing Elevation** 395.57 ft amsl	**Bottom of Boring Elevation** 322.77 ft amsl

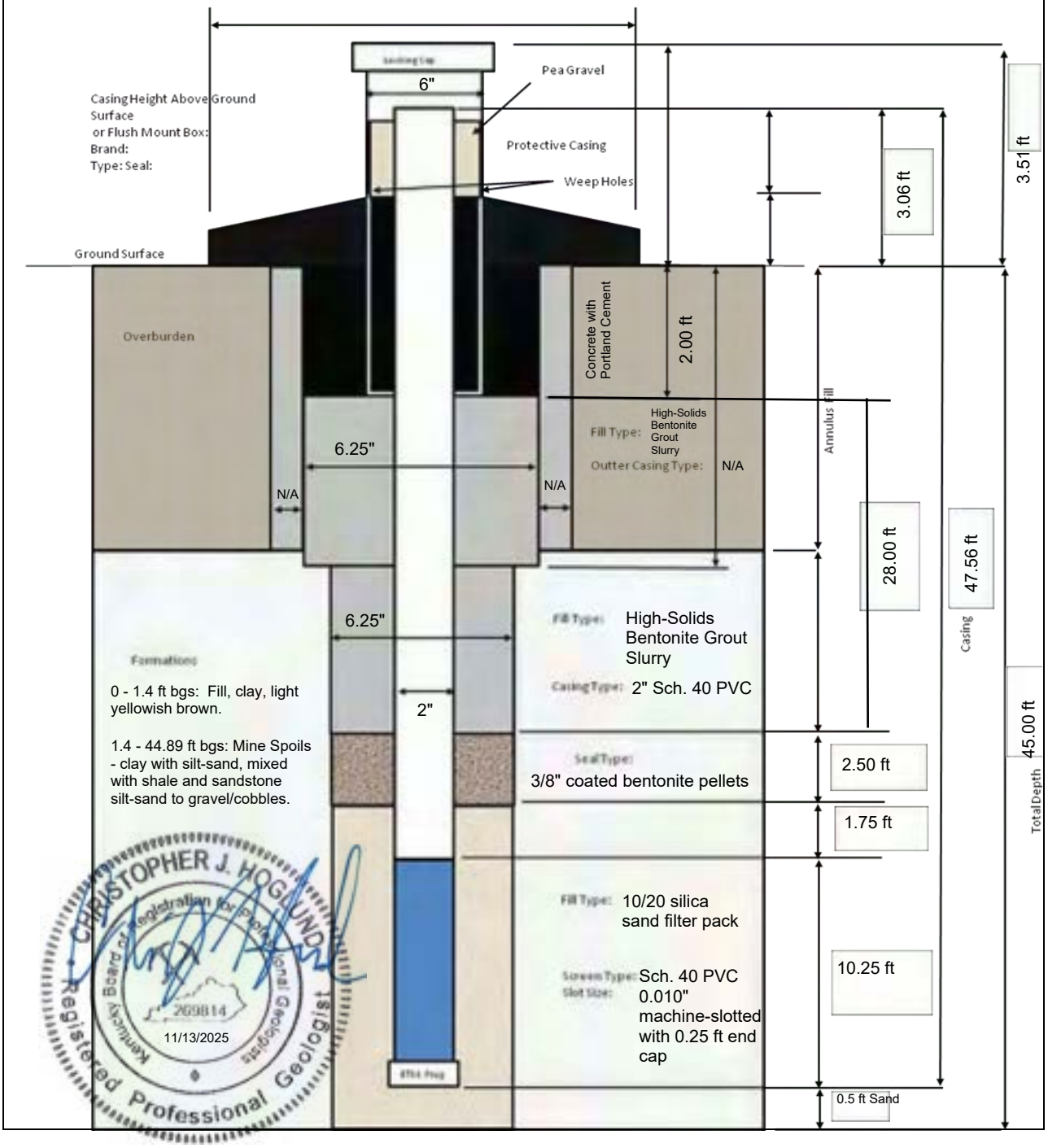


CHRISTOPHER J. HOGGUND
Registration for Overburden
269864
11/13/2025
Kentucky Board of Registered Professional Geologists

Project # 188763	**Date Installed** 9/5/2025	**Well ID#** MW-119A 8008-0539
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 392.55 ft amsl	**Top of Casing Elevation** 395.65 ft amsl	**Bottom of Boring Elevation** 347.07 ft amsl



Project # 188763	**Date Installed** 9/9/2025	**Well ID#** MW-120 8008-0540
Client Big Rivers Electric Corporation	**Location** BREC Wilson Station	**Installed By** Cascade Drilling LP
Ground Elevation 418.22 ft amsl	**Top of Casing Elevation** 421.28 ft amsl	**Bottom of Boring Elevation** 373.33 ft amsl



Appendix J – Uniform Kentucky Well Construction Record

Thank you for submitting your information via the Kentucky Energy and Environment Cabinet eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. Your Submittal ID and Transaction ID will be included in an email after EEC Staff have reviewed your submittal.
The Submittal ID for this transaction is 542502 and was submitted by EECPPC\megan.sidaway on .

If you need to contact EEC regarding your submission, please reference your Submittal ID. The eForm Submittal ID allows you to use the data from this form as a template. In addition, you may download a copy of your submittal by returning to the details page.

UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

Use this form to report installation, modification or decommissioning of any temporary or permanent monitoring or water wells

Form must be completed and submitted to the Division of Water within 60 days of completion of work

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Purpose of the application(*)

Note: If you are reporting anything other than a new installation and have no AKGWA number, search for it here: (https://kgs.uky.edu/kgsweb/DataSearching/Water/WaterWellSearch.asp) If you still need one, contact DOWDrillersProgram@ky.gov (mailto:DOWDrillersProgram@ky.gov?subject=Need%20AKGWA%20for%20eForm%20submittal) for an AKGWA number before proceeding.

Install only

Kentucky Well ID (AKGWA) Number (*)

Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record.

8008-0536

Owner Well ID#

MW-105B

Reference Point

Upgradient/Background/R

Well use(*)

Monitoring well - ambient

General Comments:

Applicant Comment:

EEC Reviewer Comment:

Monitoring Well Info

Monitoring Well Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*)	Cap(*)
No	Lockable

Owner Name and Address Information

“Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual”

Owner Information Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Owner Business name(✓)	Owner first name(✓)	Owner middle initial	Owner last name(✓)
Big Rivers Electric Corporatic	Owner first name	Middle init	Owner last name

Owner address(*)	Owner city(*)	Owner state(*)	Owner zipcode (*)
5663 State Route 85 West	Centertown	Kentucky	42328

Owner telephone:(*)

270-844-5000

Site Name, Address and Agency Information

☐ Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number:	Program type	Permit or ID Number
3319	Solid Waste	

Site Name(*)	Site telephone:
Big Rivers Electric Corp - Wilson Station	270-844-5000

Site Address(*)	Site city(*)	Site state(*)	Site zipcode (*)
5663 KY 85 W	Centertown	Kentucky	42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file
Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

Well Use and Specification Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Well Specifications

Active(*)	Unsuitable for Intended use(*)
Yes	No
Discharge permit required?(*)	Withdrawal permit required?(*)
No	No

Artesian/flowing(*)	If so, height (in):(✓)	Nested wells(*)	If so, number:(✓)
No		No	

Comments

Affirmation Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Affirmation

I certify under penalty of law that this document/electronic submittal 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. By submitting data, this transmission constitutes my signature and I am responsible for any and all content submitted either by me or by the people I represent.

Date affirmed(*)	11/10/2025
Driller first name(*)	William

Driller middle initial	R
Driller last name(*)	Gordon
Driller suffix	Driller suffix
Certification number(*)	0492-0549-00
Certification company(*)	Cascade Drilling

Click to Save Values for Future Retrieval | Click for Review Complete | Click to Submit Deficiency

Thank you for submitting your information via the Kentucky Energy and Environment Cabinet eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. Your Submittal ID and Transaction ID will be included in an email after EEC Staff have reviewed your submittal.
The Submittal ID for this transaction is 542932 and was submitted by William Gordon on November 12, 2025 08:32 PM Eastern Time.

If you need to contact EEC regarding your submission, please reference your Submittal ID. The eForm Submittal ID allows you to use the data from this form as a template. In addition, you may download a copy of your submittal by returning to the details page.

UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

Use this form to report installation, modification or decommissioning of any temporary or permanent monitoring or water wells

Form must be completed and submitted to the Division of Water within 60 days of completion of work

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Purpose of the application(*)

Note: If you are reporting anything other than a new installation and have no AKGWA number, search for it here: (https://kgs.uky.edu/kgsweb/DataSearching/Water/WaterWellSearch.asp) If you still need one, contact DOWDrillersProgram@ky.gov (mailto:DOWDrillersProgram@ky.gov?subject=Need%20AKGWA%20for%20eForm%20submittal) for an AKGWA number before proceeding.

Install only

Kentucky Well ID (AKGWA) Number (*)

Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record.

8008-0537

Owner Well ID#

MW-110A

Reference Point

Downgradient

Well use(*)

Monitoring well - ambient

General Comments:

Applicant Comment:

EEC Reviewer Comment:

Monitoring Well Info

Monitoring Well Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*)	Cap(*)
No	Lockable

Owner Name and Address Information

“Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual”

Owner Information Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Owner Business name(✓)	Owner first name(✓)	Owner middle initial	Owner last name(✓)
Big Rivers Electric Corporati	Owner first name	Middle init	Owner last name

Owner address(*)	Owner city(*)	Owner state(*)	Owner zipcode (*)

5663 State Route 85 West	Centertown	Kentucky	42328

Owner telephone:(*)

270-844-5000

Site Name, Address and Agency Information

Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number:	Program type	Permit or ID Number
3319	Solid Waste	

Site Name(*)	Site telephone:
Big Rivers Electric Corp - Wilson Station	270-844-5000

Site Address(*)	Site city(*)	Site state(*)	Site zipcode (*)
5663 KY 85 W	Centertown	Kentucky	42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file
Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

Well Use and Specification Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Well Specifications

Active(*)	Unsuitable for Intended use(*)
Yes	No
Discharge permit required?(*)	**Withdrawal permit required?(*)**
No	No

Artesian/flowing(*)	If so, height (in):(✓)	Nested wells(*)	If so, number:(✓)
No		No	

Well Location

Well Location Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Well latitude(decimal degrees)(*) (Driller Viewer (http://watermaps.ky.gov/well))	Well longitude(decimal degrees)(*)	Method(*)
37.45205	-87.09062	Survey

USGS 7.5' quadrangle(*)	County(*)	Physiographic region(*)
EQUALITY	Ohio	W. Coal Field

Surface elevation(ft)(*)	Surface elevation method(*)	Well in flood zone?(*)
390.53	Survey	No

Construction

Well Construction Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Install start date(*) 9/3/2025	Install end date(*) 9/18/2025
Drilling method(*) Sonic	Specify drilling method combinations(✓) Specify drilling method combinations

Drilling method has no annular space (*) No	Multiple screens ?(*) No	Well development method (*) Combinations of	Specify development method combinations (✓) surge and pump

Surface Completion :

Protective surface casing (*) Yes	Protective surface casing type (✓) Steel	Protective surface casing height above surface(in) (✓) 40	Water-tight locking cap (*) Yes

Concrete pad?(*) if Yes, enter length(in) X Width(in) X height(in) in textbox below Yes 36x36x6	Bumper guards?(*) if so, enter number below: Yes 4	Weep holes(*) if yes, enter number below Yes 2

Outer casing(*) No	Outer casing type(✓)	Outer casing height above surface(in) (✓)	Outer casing 2 foot above flood level ? (✓)
Inner casing(*) Yes	Inner casing type(✓) PVC	Inner casing height above surface(in) (✓) 36	Inner casing 2 foot above flood level ? (✓) Yes

Please report depths in feet below ground surface,

Total depth (ft bgs):(*)	Depth to bedrock (ft bgs):(✓)
25	21.8
Static water level (ft bgs):	**SWL method(✓)**
6.96	Measured

Casing/open borehole:

(*)Note: When entering a row of data, From Depth, To Depth, Borehole diameter and Casing Type are required fields

From Depth (ft)	To Depth (ft)	Borehole diameter (in)	Casing OD (in)	Casing ID (in)	Casing Type
0.	10.86	6.25	2.	1.8	PVC

Screen:

From Depth (ft)	To Depth (ft)	Borehole diameter (in)	Screen OD (in)	Screen ID (in)	Screen Type
10.86	20.86	6.25	2.	1.8	PVC
0.01					

Annulus fill and seal

Section	From Depth (ft)	To Depth (ft)	Material
Filterpack	9.0	21.61	Sand
Seal	21.61	25.	Bentonite pellets
Seal	02.0	9.0	Bentonite pellets

Lithologic log

From Depth (ft)	To Depth (ft)	Description
14	19	clay - gray to brown
0	14	clay - yellowish/reddish brown
19	22	sand - fine to medium, some clay reddish brown
22	25	sandstone - weathered, light gray

Comments

Affirmation Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Affirmation

I certify under penalty of law that this document/electronic submittal 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. By submitting data, this transmission constitutes my signature and I am responsible for any and all content submitted either by me or by the people I represent.

Date affirmed(*)	11/12/2025
Driller first name(*)	William
Driller middle initial	R
Driller last name(*)	Gordon
Driller suffix	Driller suffix
Certification number(*)	0492-0549-00
Certification company(*)	Cascade Drilling

Click to Save Values for Future Retrieval | Click to Submit to EEC

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The Submittal ID for this transaction is 542879 and was submitted by EECPPC\megan.sidaway on .

If you need to contact EEC regarding your submission, please reference your Submittal ID. The eForm Submittal ID allows you to use the data from this form as a template. In addition, you may download a copy of your submittal by returning to the details page.

UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

Use this form to report installation, modification or decommissioning of any temporary or permanent monitoring or water wells

Form must be completed and submitted to the Division of Water within 60 days of completion of work

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Purpose of the application(*)

Note: If you are reporting anything other than a new installation and have no AKGWA number, search for it here: (https://kgs.uky.edu/kgsweb/DataSearching/Water/WaterWellSearch.asp) If you still need one, contact DOWDrillersProgram@ky.gov (mailto:DOWDrillersProgram@ky.gov?subject=Need%20AKGWA%20for%20eForm%20submittal) for an AKGWA number before proceeding.

Install only

Kentucky Well ID (AKGWA) Number (*)

Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record.

8008-0545

Owner Well ID#

MW-115A

Reference Point

Upgradient/Background/R

Well use(*)

Monitoring well - ambient

General Comments:

Applicant Comment:

EEC Reviewer Comment:

Monitoring Well Info

Monitoring Well Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*)	Cap(*)
No	Lockable

Owner Name and Address Information

“Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual”

Owner Information Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Owner Business name(✓)	Owner first name(✓)	Owner middle initial	Owner last name(✓)
Big Rivers Electric Corporatic	Owner first name	Middle init	Owner last name

Owner address(*)	Owner city(*)	Owner state(*)	Owner zipcode (*)
5663 State Route 85 West	Centertown	Kentucky	42328

Owner telephone:(*)

270-844-5000

Site Name, Address and Agency Information

☐ Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number:	Program type	Permit or ID Number
3319	Solid Waste	

Site Name(*)	Site telephone:
Big Rivers Electric Corp - Wilson Station	270-844-5000

Site Address(*)	Site city(*)	Site state(*)	Site zipcode (*)
5663 KY 85 W	Centertown	Kentucky	42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file
Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

Well Use and Specification Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Well Specifications

Active(*)	Unsuitable for Intended use(*)
Yes	No
Discharge permit required?(*)	**Withdrawal permit required?(*)**
No	No

Artesian/flowing(*)	If so, height (in):(✓)	Nested wells(*)	If so, number:(✓)
No		No	

Thank you for submitting your information via the Kentucky Energy and Environment Cabinet eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. Your Submittal ID and Transaction ID will be included in an email after EEC Staff have reviewed your submittal.
The Submittal ID for this transaction is 542882 and was submitted by EECPPC\megan.sidaway on .

If you need to contact EEC regarding your submission, please reference your Submittal ID. The eForm Submittal ID allows you to use the data from this form as a template. In addition, you may download a copy of your submittal by returning to the details page.

UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

Use this form to report installation, modification or decommissioning of any temporary or permanent monitoring or water wells

Form must be completed and submitted to the Division of Water within 60 days of completion of work

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Purpose of the application(*)

Note: If you are reporting anything other than a new installation and have no AKGWA number, search for it here: (https://kgs.uky.edu/kgsweb/DataSearching/Water/WaterWellSearch.asp) If you still need one, contact DOWDrillersProgram@ky.gov (mailto:DOWDrillersProgram@ky.gov?subject=Need%20AKGWA%20for%20eForm%20submittal) for an AKGWA number before proceeding.

Install only

Kentucky Well ID (AKGWA) Number (*)

Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record.

8008-0544

Owner Well ID#

MW-115

Reference Point

Upgradient/Background/R

Well use(*)

Monitoring well - ambient

General Comments:

Applicant Comment:

EEC Reviewer Comment:

Monitoring Well Info

Monitoring Well Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*)	Cap(*)
No	Lockable

Owner Name and Address Information

“Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual”

Owner Information Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Owner Business name(✓)	Owner first name(✓)	Owner middle initial	Owner last name(✓)
Big Rivers Electric Corporatic	Owner first name	Middle init	Owner last name

Owner address(*)	Owner city(*)	Owner state(*)	Owner zipcode (*)
5663 State Route 85 West	Centertown	Kentucky	42328

Owner telephone:(*)

270-844-5000

Site Name, Address and Agency Information

☐ Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number:	Program type	Permit or ID Number
3319	Solid Waste	

Site Name(*)	Site telephone:
Big Rivers Electric Corp - Wilson Station	270-844-5000

Site Address(*)	Site city(*)	Site state(*)	Site zipcode (*)
5663 KY 85 W	Centertown	Kentucky	42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file
Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

Well Use and Specification Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Well Specifications

Active(*)	Unsuitable for Intended use(*)
Yes	No
Discharge permit required?(*)	**Withdrawal permit required?(*)**
No	No

Artesian/flowing(*)	If so, height (in):(✓)	Nested wells(*)	If so, number:(✓)
No		No	

Thank you for submitting your information via the Kentucky Energy and Environment Cabinet eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. Your Submittal ID and Transaction ID will be included in an email after EEC Staff have reviewed your submittal.
The Submittal ID for this transaction is 542883 and was submitted by EECPPC\megan.sidaway on .

If you need to contact EEC regarding your submission, please reference your Submittal ID. The eForm Submittal ID allows you to use the data from this form as a template. In addition, you may download a copy of your submittal by returning to the details page.

UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

Use this form to report installation, modification or decommissioning of any temporary or permanent monitoring or water wells

Form must be completed and submitted to the Division of Water within 60 days of completion of work

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Purpose of the application(*)

Note: If you are reporting anything other than a new installation and have no AKGWA number, search for it here: (https://kgs.uky.edu/kgsweb/DataSearching/Water/WaterWellSearch.asp) If you still need one, contact DOWDrillersProgram@ky.gov (mailto:DOWDrillersProgram@ky.gov?subject=Need%20AKGWA%20for%20eForm%20submittal) for an AKGWA number before proceeding.

Install only

Kentucky Well ID (AKGWA) Number (*)

Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record.

8008-0543

Owner Well ID#

MW-116

Reference Point

Upgradient/Background/R

Well use(*)

Monitoring well - ambient

General Comments:

Applicant Comment:

EEC Reviewer Comment:

Monitoring Well Info

Monitoring Well Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*)	Cap(*)
No	Lockable

Owner Name and Address Information

“Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual”

Owner Information Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Owner Business name(✓)	Owner first name(✓)	Owner middle initial	Owner last name(✓)
Big Rivers Electric Corporatic	Owner first name	Middle init	Owner last name

Owner address(*)	Owner city(*)	Owner state(*)	Owner zipcode (*)
5663 State Route 85 West	Centertown	Kentucky	42328

Owner telephone:(*)

270-844-5000

Site Name, Address and Agency Information

☐ Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number:	Program type	Permit or ID Number
3319	Solid Waste	

Site Name(*)	Site telephone:
Big Rivers Electric Corp - Wilson Station	270-844-5000

Site Address(*)	Site city(*)	Site state(*)	Site zipcode (*)
5663 KY 85 W	Centertown	Kentucky	42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file
Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

Well Use and Specification Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Well Specifications

Active(*)	Unsuitable for Intended use(*)
Yes	No
Discharge permit required?(*)	**Withdrawal permit required?(*)**
No	No

Artesian/flowing(*)	If so, height (in):(✓)	Nested wells(*)	If so, number:(✓)
No		No	

Thank you for submitting your information via the Kentucky Energy and Environment Cabinet eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. Your Submittal ID and Transaction ID will be included in an email after EEC Staff have reviewed your submittal.
The Submittal ID for this transaction is 542884 and was submitted by EECPPC\megan.sidaway on .

If you need to contact EEC regarding your submission, please reference your Submittal ID. The eForm Submittal ID allows you to use the data from this form as a template. In addition, you may download a copy of your submittal by returning to the details page.

UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

Use this form to report installation, modification or decommissioning of any temporary or permanent monitoring or water wells

Form must be completed and submitted to the Division of Water within 60 days of completion of work

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Purpose of the application(*)

Note: If you are reporting anything other than a new installation and have no AKGWA number, search for it here: (https://kgs.uky.edu/kgsweb/DataSearching/Water/WaterWellSearch.asp) If you still need one, contact DOWDrillersProgram@ky.gov (mailto:DOWDrillersProgram@ky.gov?subject=Need%20AKGWA%20for%20eForm%20submittal) for an AKGWA number before proceeding.

Install only

Kentucky Well ID (AKGWA) Number (*)

Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record.

8008-0542

Owner Well ID#

MW-117

Reference Point

Upgradient/Background/R

Well use(*)

Monitoring well - ambient

General Comments:

Applicant Comment:

EEC Reviewer Comment:

Monitoring Well Info

Monitoring Well Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*)	Cap(*)
No	Lockable

Owner Name and Address Information

“Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual”

Owner Information Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Owner Business name(✓)	Owner first name(✓)	Owner middle initial	Owner last name(✓)
Big Rivers Electric Corporatic	Owner first name	Middle init	Owner last name

Owner address(*)	Owner city(*)	Owner state(*)	Owner zipcode (*)
5663 State Route 85 West	Centertown	Kentucky	42328

Owner telephone:(*)

270-844-5000

Site Name, Address and Agency Information

☐ Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number:	Program type	Permit or ID Number
3319	Solid Waste	

Site Name(*)	Site telephone:
Big Rivers Electric Corp - Wilson Station	270-844-5000

Site Address(*)	Site city(*)	Site state(*)	Site zipcode (*)
5663 KY 85 W	Centertown	Kentucky	42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file
Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

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The Submittal ID for this transaction is 542881 and was submitted by EECPPC\megan.sidaway on .

If you need to contact EEC regarding your submission, please reference your Submittal ID. The eForm Submittal ID allows you to use the data from this form as a template. In addition, you may download a copy of your submittal by returning to the details page.

UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

Use this form to report installation, modification or decommissioning of any temporary or permanent monitoring or water wells

Form must be completed and submitted to the Division of Water within 60 days of completion of work

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Purpose of the application(*)

Note: If you are reporting anything other than a new installation and have no AKGWA number, search for it here: (https://kgs.uky.edu/kgsweb/DataSearching/Water/WaterWellSearch.asp) If you still need one, contact DOWDrillersProgram@ky.gov (mailto:DOWDrillersProgram@ky.gov?subject=Need%20AKGWA%20for%20eForm%20submittal) for an AKGWA number before proceeding.

Install only

Kentucky Well ID (AKGWA) Number (*)

Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record.

8008-0541

Owner Well ID#

MW-118

Reference Point

Upgradient/Background/R

Well use(*)

Monitoring well - ambient

General Comments:

Applicant Comment:

EEC Reviewer Comment:

Monitoring Well Info

Monitoring Well Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*)	Cap(*)
No	Lockable

Owner Name and Address Information

“Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual”

Owner Information Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Owner Business name(✓)	Owner first name(✓)	Owner middle initial	Owner last name(✓)
Big Rivers Electric Corporatic	Owner first name	Middle init	Owner last name

Owner address(*)	Owner city(*)	Owner state(*)	Owner zipcode (*)
5663 State Route 85 West	Centertown	Kentucky	42328

Owner telephone:(*)

270-844-5000

Site Name, Address and Agency Information

☐ Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number:	Program type	Permit or ID Number
3319	Solid Waste	

Site Name(*)	Site telephone:
Big Rivers Electric Corp - Wilson Station	270-844-5000

Site Address(*)	Site city(*)	Site state(*)	Site zipcode (*)
5663 KY 85 W	Centertown	Kentucky	42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file
Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

Well Use and Specification Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Well Specifications

Active(*)	Unsuitable for Intended use(*)
Yes	No
Discharge permit required?(*)	**Withdrawal permit required?(*)**
No	No

Artesian/flowing(*)	If so, height (in):(✓)	Nested wells(*)	If so, number:(✓)
No		No	

Thank you for submitting your information via the Kentucky Energy and Environment Cabinet eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. Your Submittal ID and Transaction ID will be included in an email after EEC Staff have reviewed your submittal.
The Submittal ID for this transaction is 542880 and was submitted by EECPPC\megan.sidaway on .

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UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

Use this form to report installation, modification or decommissioning of any temporary or permanent monitoring or water wells

Form must be completed and submitted to the Division of Water within 60 days of completion of work

(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Purpose of the application(*)

Note: If you are reporting anything other than a new installation and have no AKGWA number, search for it here: (https://kgs.uky.edu/kgsweb/DataSearching/Water/WaterWellSearch.asp) If you still need one, contact DOWDrillersProgram@ky.gov (mailto:DOWDrillersProgram@ky.gov?subject=Need%20AKGWA%20for%20eForm%20submittal) for an AKGWA number before proceeding.

Install only

Kentucky Well ID (AKGWA) Number (*)

Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record.

8008-0539

Owner Well ID#

MW-119A

Reference Point

Upgradient/Background/R

Well use(*)

Monitoring well - ambient

General Comments:

Applicant Comment:

EEC Reviewer Comment:

Monitoring Well Info

Monitoring Well Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*)	Cap(*)
No	Lockable

Owner Name and Address Information

“Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual”

Owner Information Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Owner Business name(✓)	Owner first name(✓)	Owner middle initial	Owner last name(✓)
Big Rivers Electric Corporatic	Owner first name	Middle init	Owner last name

Owner address(*)	Owner city(*)	Owner state(*)	Owner zipcode (*)
5663 State Route 85 West	Centertown	Kentucky	42328

Owner telephone:(*)

270-844-5000

Site Name, Address and Agency Information

☐ Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number:	Program type	Permit or ID Number
3319	Solid Waste	

Site Name(*)	Site telephone:
Big Rivers Electric Corp - Wilson Station	270-844-5000

Site Address(*)	Site city(*)	Site state(*)	Site zipcode (*)
5663 KY 85 W	Centertown	Kentucky	42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file
Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

Well Use and Specification Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Well Specifications

Active(*)	Unsuitable for Intended use(*)
Yes	No
Discharge permit required?(*)	**Withdrawal permit required?(*)**
No	No

Artesian/flowing(*)	If so, height (in):(✓)	Nested wells(*)	If so, number:(✓)
No		No	

Thank you for submitting your information via the Kentucky Energy and Environment Cabinet eForms website. Please save a copy of this submittal for your records. We recommend saving a copy as a .mht, .html, or .htm file. Your Submittal ID and Transaction ID will be included in an email after EEC Staff have reviewed your submittal.
The Submittal ID for this transaction is 542888 and was submitted by EECPPC\megan.sidaway on .

If you need to contact EEC regarding your submission, please reference your Submittal ID. The eForm Submittal ID allows you to use the data from this form as a template. In addition, you may download a copy of your submittal by returning to the details page.

UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

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Purpose of the application(*)

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Install only

Kentucky Well ID (AKGWA) Number (*)

Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record.

8008-0538

Owner Well ID#

MW-119

Reference Point

Upgradient/Background/R

Well use(*)

Monitoring well - ambient

General Comments:

Applicant Comment:

EEC Reviewer Comment:

Monitoring Well Info

Monitoring Well Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*)	Cap(*)
No	Lockable

Owner Name and Address Information

“Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual”

Owner Information Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Owner Business name(✓)	Owner first name(✓)	Owner middle initial	Owner last name(✓)
Big Rivers Electric Corporatic	Owner first name	Middle init	Owner last name

Owner address(*)	Owner city(*)	Owner state(*)	Owner zipcode (*)
5663 State Route 85 West	Centertown	Kentucky	42328

Owner telephone:(*)

270-844-5000

Site Name, Address and Agency Information

☐ Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number:	Program type	Permit or ID Number
3319	Solid Waste	

Site Name(*)	Site telephone:
Big Rivers Electric Corp - Wilson Station	270-844-5000

Site Address(*)	Site city(*)	Site state(*)	Site zipcode (*)
5663 KY 85 W	Centertown	Kentucky	42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file
Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

Well Use and Specification Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Well Specifications

Active(*)	Unsuitable for Intended use(*)
Yes	No
Discharge permit required?(*)	Withdrawal permit required?(*)
No	No

Artesian/flowing(*)	If so, height (in):(✓)	Nested wells(*)	If so, number:(✓)
No		No	

Comments

Affirmation Review Comments:

Applicant Comment:

EEC Reviewer Comment:

Affirmation

I certify under penalty of law that this document/electronic submittal 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. By submitting data, this transmission constitutes my signature and I am responsible for any and all content submitted either by me or by the people I represent.

Date affirmed(*)	11/11/2025
Driller first name(*)	William

Driller middle initial	R
Driller last name(*)	Gordon
Driller suffix	Driller suffix
Certification number(*)	0492-0549-00
Certification company(*)	Cascade Drilling

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The Submittal ID for this transaction is 543022 and was submitted by William Gordon on November 12, 2025 08:42 PM Eastern Time.

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UNIFORM KENTUCKY WATER/MONITORING WELL REPORTING RECORD

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(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field

Purpose of the application(*)

Note: If you are reporting anything other than a new installation and have no AKGWA number, search for it here: (https://kgs.uky.edu/kgsweb/DataSearching/Water/WaterWellSearch.asp) If you still need one, contact DOWDrillersProgram@ky.gov (mailto:DOWDrillersProgram@ky.gov?subject=Need%20AKGWA%20for%20eForm%20submittal) for an AKGWA number before proceeding.

Install only

Kentucky Well ID (AKGWA) Number (*)	Owner Well ID#	Well use(*)
Be sure to check the AKGWA Number against the Owner Well ID# before submitting this record. 8008-0540	MW-120 Reference Point Downgradient	Monitoring well - ambient

Monitoring Well Info

Wellhead

Manhole cover and gasket ?(*)	if so, diameter (in):(✓)	Dedicated pump(*)
No	diameter (in)	No pump

Flush mount(*) No	Cap(*) Lockable

Owner Name and Address Information

"Enter business name if owner is an organization. Enter first name/middle initial/last name if owner is an individual"

Owner Business name(✓) Big Rivers Electric Corporatic	Owner first name(✓) Owner first name	Owner middle initial Middle init	Owner last name(✓) Owner last name

Owner address(*) 5663 State Route 85 West	Owner city(*) Centertown	Owner state(*) Kentucky	Owner zipcode (*) 42328

Owner telephone:(*)
270-844-5000

Site Name, Address and Agency Information

☑ Please check the checkbox if site address is same as the owner address

Agency Interest (AI) Number: 3319	Program type Solid Waste	Permit or ID Number

Site Name(*) Big Rivers Electric Corp - Wilson Station	Site telephone: 270-844-5000

Site Address(*) 5663 KY 85 W	Site city(*) Centertown	Site state(*) Kentucky	Site zipcode (*) 42328

Supporting Documentation

Site Map/Sketch Map(✓)	Upload file
Well location	Upload file
Well Diagram (monitoring well)	Upload file
Bacteria analysis (if applicable)	Upload file
Approved variance (if applicable)	Upload file

Drilling log (optional)	Upload file
Other laboratory analysis report (optional)	Upload file
Aquifer test results (optional)	Upload file
Casing/Screen Supplemental Info (if applicable)	Upload file
Other documentation (optional)	Upload file

Well Specifications

Active(*) Yes		Unsuitable for Intended use(*) No	
Discharge permit required?(*) No		Withdrawal permit required?(*) No	
Artesian/flowing(*) No	If so, height (in):(✓)	Nested wells(*) No	If so, number:(✓)

Well Location

Well latitude(decimal degrees)(*) 37.45515	Well longitude(decimal degrees)(*) -87.09756	Method(*) Survey
USGS 7.5' quadrangle(*) EQUALITY	County(*) Ohio	Physiographic region(*) W. Coal Field
Surface elevation(ft)(*) 418.22	Surface elevation method(*) Survey	Well in flood zone?(*) No

Driller Viewer (http://watermaps.ky.gov/well)

Construction

Install start date(*) 9/9/2025	Install end date(*) 9/18/2025
Drilling method(*) Sonic	Specify drilling method combinations(✓) Specify drilling method combinations

Drilling method has no annular space (*)	Multiple screens ?(*)	Well development method (*)	Specify development method combinations (✓)
No	No	Combinations of	surge and pump

Surface Completion :

Protective surface casing (*)	Protective surface casing type (✓)	Protective surface casing height above surface(in) (✓)	Water-tight locking cap (*)
Yes	Steel	40	Yes

Concrete pad?(*) if Yes, enter length(in) X Width(in) X height(in) in textbox below	Bumper guards?(*) if so, enter number below:	Weep holes(*) if yes, enter number below
Yes 36x36x6	Yes 4	Yes 2

Outer casing(*)	Outer casing type(✓)	Outer casing height above surface(in) (✓)	Outer casing 2 foot above flood level ? (✓)
No			

Inner casing(*)	Inner casing type(✓)	Inner casing height above surface(in) (✓)	Inner casing 2 foot above flood level ? (✓)
Yes	PVC	36	Yes

Please report depths in feet below ground surface,

Total depth (ft bgs):(*)	Depth to bedrock (ft bgs):(✓)
45	

Static water level (ft bgs):	SWL method(✓)
32.92	Measured

Casing/open borehole:

(*)Note: When entering a row of data, From Depth, To Depth, Borehole diameter and Casing Type are required fields

From Depth (ft)	To Depth (ft)	Borehole diameter (in)	Casing OD (in)	Casing ID (in)	Casing Type
0.	34.25	6.25	2.	1.8	PVC

Screen:

From Depth (ft)	To Depth (ft)	Borehole diameter (in)	Screen OD (in)	Screen ID (in)	Screen Type
34.25	44.25	6.25	2.	1.8	PVC
0.01					

Annulus fill and seal

Section	From Depth (ft)	To Depth (ft)	Material
Grout	2.0	30.0	Bentonite
Seal	30.0	32.5	Bentonite pellets
Filterpack	32.5	45.	Sand

Lithologic log

From Depth (ft)	To Depth (ft)	Description
0	2	fill - clay, light yellowish brown
2	45	mine spoils - clay with silt and sand, mixed

Comments

Affirmation

I certify under penalty of law that this document/electronic submittal 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. By submitting data, this transmission constitutes my signature and I am responsible for any and all content submitted either by me or by the people I represent.

Date affirmed(*)	11/12/2025
Driller first name(*)	William
Driller middle initial	R
Driller last name(*)	Gordon
Driller suffix	Driller suffix

Certification number(*)	0492-0549-00
Certification company(*)	Cascade Drilling

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Appendix K – Monitoring Well Development Forms

Well Development Summary

Big Rivers Electric Corporation - Wilson Station
Centertown, Kentucky

Well Identification	Screened Formation	Well Development (gallons and date)			Total Development (gallons and days)		5 Saturated Well Volumes (gallons)	3 Borehole Volumes (gallons)	5 Saturated Well Volumes Purged?	3 Borehole Volumes Purged?	Clear-Low Turbidity During Development?
Monitoring Wells											
MW-105B	Bedrock (Sandstone)	4.0 9/8/2025	6.5 9/9/2025	6.5 9/10/2025	17 3	gallons day	19.49	26.76	No	No	9/10/2025 - Purged Dry (3rd Time) (observed clear water prior to dry)
MW-110A	Alluvium (Clay)	5.0 9/8/2025	6.5 9/9/2025	6.5 9/9/2025	18 3	gallons days	9.87	20.13	**Yes**	No	9/10/2025 - Purged Dry (3rd Time) (observed clear water prior to dry)
MW-115A	Alluvium (Clay)	Installed Dry; Low Yielding - Not Developed			0 0	gallons days	na	na	na	na	na
MW-115	Bedrock (Shale)	70.0 9/17/2025	-- --	-- --	70 1	gallons days	36.61	36.66	**Yes**	**Yes**	Purged 70 gallons (observed clear water at 70 gal)
MW-116	Mine Spoils	8.0 9/7/2025	7.5 9/8/2025	9.0 9/10/2025	24.5 3	gallons days	13.02	22.93	**Yes**	**Yes**	9/10/2025 - Purged Dry (3rd Time) (observed clear water prior to dry)
MW-117	Bedrock (Sandstone)	6 9/8/2025	5 9/8/2025	6 9/10/2025	17 3	gallons day	21.00	27.34	No	No	9/10/2025 - Purged Dry (3rd Time) (observed clear water prior to dry)
MW-118	Bedrock (Sandstone)	9 9/17/2025	7 9/18/2025	8 9/18/2025	24 3	gallons days	13.17	22.85	**Yes**	**Yes**	9/18/2025 - Purged Dry (3rd Time) (observed clear water prior to dry)
MW-119A	Alluvium (Clay)	7 9/6/2025	7 9/8/2025	8 9/10/2025	22 3	gallons days	39.23	45.00	No	No	9/10/2025 - Purged Dry (3rd Time) (observed clear water prior to dry)
MW-119	Alluvium (Sand)	30.5 9/6/2025	-- --	-- --	30.5 1	gallons days	29.83	32.48	**Yes**	No	Purged 30.5 gallons (observed clear water at 30.5 gal)
MW-120	Mine Spoils	55 9/17/2025	-- --	-- --	55 1	gallons days	9.27	18.91	**Yes**	**Yes**	Purged 55 gallons (observed clear water 10-55 gal)

Notes:
na - not applicable
NTUs = nephelometric turbidity units

WELL DEVELOPMENT RECORD

Project Name:	BREC Wilson	**Project Number:**	188763	**Well Number:**	**MW-105B**

Project Information		**Elevation of Monitoring Well**	
Facility Name:	Big Rivers Electric Company Wilson Station	Ground Surface Elevation (GS):	393.72
Location:	Centertown, Kentucky	Top of Casing Elevation (TOC):	396.72

Well Information		
Date Well Installed:	09/04/25	
Total Depth of Well:	26.81	feet from TOC
Depth to Top of Screen:	16.56	feet from TOC
Length of Casing Screened:	10.00	feet
Borehole Diameter:	6.00	inches
Well Casing Diameter:	2.00	inches
Type of Formation Screened:	Sandstone	

Borehole Volume Calculation: Filter Pack Porosity = 30%

Water Column = 23.89 feet Filter Pack = 12.82 ft Saturated Filter Pack = 12.82 ft

1 Well Volume = 3.90 gallons 5 Well Volume = 19.49 gallons

1 well volume (gallons) = initial height of water column (ft) x .16

Filter Pack Volume= 5.02 gallons

Filter pack volume (gallons) = saturated borehole filter pack volume (assuming 30% porosity) - saturated well filter pack volume

3 Borehole Volume = **26.76 gallons**

3 Borehole Volumes (gallons) = 3 x (saturated well casing volume + saturated filter pack)

Development Method

Equipment:				Method Description:
Surge		**Bail**		A pump was used to develop the well by surging before pumping. The pump was set at a moderate pumping rate as to get readings before going dry.
Airlift		**Pump**	**X**	

Observations During Development

Date	Time	Depth to Water* (ft)	Total Depth* (ft)	Fluid Removed Gallons	Fluid Removed Total	Temp. (ºC)	pH (units)	S.C. (µS/cm)	Turbidity	Fluid Appearance and Remarks (turbidity, color, odor, etc.)
09/08/25	7:30	2.92	26.81	0.5	0.5	15.5	7.9	1132	na	high turbidity, brown
09/08/25	7:32		26.81	2.5	3.0	16.32	7.6	581	na	high turbidity, brown
09/08/25	7:34	dry	26.81	1	4.0	-	-	-	-	-
09/09/25	3:30	9.54	26.81	0.5	4.5	15.7	7.60	591	na	high turbidity, brown
09/09/25	3:32		26.81	2.5	7.0	16.2	7.70	612	na	high turbidity, brown
09/09/25	3:34	dry	26.81	3.5	10.5	-	-	-	-	-
09/10/25	7:45	11.18	26.81	0.5	11.0	16.1	7.7	627	na	light brown
09/10/25	7:47		26.81	2.5	13.5	16.30	7.70	631.00	na	clear
09/10/25	7:49	dry	26.81	3.5	17.0	-	-	-	-	-

*from TOC unless otherwise noted in Remarks

WELL DEVELOPMENT RECORD

Project Name:	BREC Wilson	**Project Number:**	188763	**Well Number:**	**MW-110A**

Project Information		**Elevation of Monitoring Well**	
Facility Name:	BREC Wilson Station	Ground Surface Elevation (GS):	390.53
Location:	Centertown, Kentucky	Top of Casing Elevation (TOC):	393.82

Well Information		
Date Well Installed:	09/03/25	
Total Depth of Well:	24.40	feet from TOC
Depth to Top of Screen:	14.15	feet from TOC
Length of Casing Screened:	10.00	feet
Borehole Diameter:	6.00	inches
Well Casing Diameter:	2.00	inches
Type of Formation Screened:	Alluvium (Clay)	

Borehole Volume Calculation: Filter Pack Porosity = 30%

Water Column = 12.09 feet Filter Pack = 12.12 ft Saturated Filter Pack = 12.09 ft

1 Well Volume = 1.97 gallons 5 Well Volume = 9.87 gallons

1 well volume (gallons) = initial height of water column (ft) x .16

Filter Pack Volume= 4.74 gallons

Filter pack volume (gallons) = saturated borehole filter pack volume (assuming 30% porosity) - saturated well filter pack volume

3 Borehole Volume = **20.13 gallons**

3 Borehole Volumes (gallons) = 3 x (saturated well casing volume + saturated filter pack)

Development Method

Equipment:				Method Description:
Surge		**Bail**	**X**	A bailer was used to develop the well first few well volumes. Switched to a pump for the final two readings
Airlift		**Pump**	**X**	

Observations During Development

Date	Time	Depth to Water* (ft)	Total Depth* (ft)	Fluid Removed Gallons	Fluid Removed Total	Temp. (ºC)	pH (units)	S.C. (µS/cm)	Turbidity	Fluid Appearance and Remarks (turbidity, color, odor, etc.)
09/08/25	8:15	12.31	24.40	0	0	15.3	7.80	800	n/a	Brown, cloudy
09/08/25	8:17		24.40	3.0	3.0	16.2	7.70	765	n/a	Brown, cloudy
09/08/25	8:19	dry	24.40	2.0	5.0	-	-	-	-	-
09/09/25	8:15	11.18	24.40	0.5	5.5	16.3	7.70	763	n/a	Brown, cloudy
09/09/25	8:17		24.40	3.0	8.5	16.7	7.70	785	n/a	Light brown, cloudy
09/09/25	8:19	dry	24.40	3.0	11.5	-	-	-	-	-
09/09/25	8:15	11.26	24.40	0.5	12.0	16.2	7.50	771	n/a	Light brown, cloudy
09/09/25	8:17		24.40	3.0	15.0	16.1	7.50	785	n/a	clear
09/09/25	8:19	dry	24.40	3.0	18.0	-	-	-	-	-

*from TOC unless otherwise noted in Remarks

WELL DEVELOPMENT RECORD

Project Name:	BREC Wilson	**Project Number:**	188763	**Well Number:**	**MW-115**

Project Information		**Elevation of Monitoring Well**	
Facility Name:	Big Rivers Energy Company Wilson Station	Ground Surface Elevation (GS):	389.86
Location:	Centertown, Kentucky	Top of Casing Elevation (TOC):	392.76

Well Information		
Date Well Installed:	09/16/25	
Total Depth of Well:	47.40	feet from TOC
Depth to Top of Screen:	37.15	feet from TOC
Length of Casing Screened:	10.00	feet
Borehole Diameter:	6.00	inches
Well Casing Diameter:	2.00	inches
Type of Formation Screened:	Shale	

Borehole Volume Calculation: Filter Pack Porosity = 30%

Water Column = 44.86 feet Filter Pack = 12.51 ft Saturated Filter Pack = 12.51 ft

1 Well Volume = 7.32 gallons 5 Well Volume = 36.61 gallons

1 well volume (gallons) = initial height of water column (ft) x .16

Filter Pack Volume= 4.90 gallons

Filter pack volume (gallons) = saturated borehole filter pack volume (assuming 30% porosity) - saturated well filter pack volume

3 Borehole Volume = **36.66 gallons**

3 Borehole Volumes (gallons) = 3 x (saturated well casing volume + saturated filter pack)

Development Method

Equipment:				Method Description:
Surge		**Bail**		A pump was used to develop the well by surging before pumping. The pump was set at a moderate pumping rate as to get readings before going dry.
Airlift		**Pump**	**X**	

Observations During Development

Date	Time	Depth to Water* (ft)	Total Depth* (ft)	Fluid Removed Gallons	Fluid Removed Total	Temp. (ºC)	pH (units)	S.C. (µS/cm)	Turbidity	Fluid Appearance and Remarks (turbidity, color, odor, etc.)
09/17/25	3:45	2.54	42.20	0.50	0.5	25.2	7.6	980	na	Grey, high turbidity
09/17/25	3:50	10.66	42.20	5.00	5.0	25.4	7.1	991	na	Grey, high turbidity
09/17/25	3:55	10.66	42.20	10	10.0	20.1	6.9	1018	na	Grey, high turbidity
09/17/25	4:00	10.66	42.20	20	20.0	20.0	7.0	1031	na	Grey, cloudy
09/17/25	4:05	10.66	42.20	30.0	30.0	19.5	7.1	1057	na	Grey, cloudy
09/17/25	4:10	10.66	42.20	40.0	40.0	19.7	7.3	1060	na	Grey, cloudy
09/17/25	4:15	10.66	42.20	50.0	50.0	19.6	7.3	1065	na	Grey, cloudy
09/17/25	4:20	10.66	42.20	60.0	60.0	20.0	7.3	1071	na	clear
09/17/25	4:25	10.66	42.20	70.00	70.0	20.1	7.3	1052	na	clear

*from TOC unless otherwise noted in Remarks

WELL DEVELOPMENT RECORD

Project Name: BREC Wilson	**Project Number:** 188763	**Well Number:** MW-116

Project Information		**Elevation of Monitoring Well**	
Facility Name:	BREC Wilson Station	Ground Surface Elevation (GS):	409.310
Location:	Centertown, Kentucky	Top of Casing Elevation (TOC):	412.370

Well Information		
Date Well Installed:	09/07/25	
Total Depth of Well:	33.91	feet from TOC
Depth to Top of Screen:	23.66	feet from TOC
Length of Casing Screened:	10.00	feet
Borehole Diameter:	6.00	inches
Well Casing Diameter:	2.00	inches
Type of Formation Screened:	Mine Spoils	

Borehole Volume Calculation: Filter Pack Porosity = 30%

Water Column = 15.96 feet Filter Pack = 12.86 ft Saturated Filter Pack = 12.86 ft

1 Well Volume = 2.60 gallons 5 Well Volume = 13.02 gallons

1 well volume (gallons) = initial height of water column (ft) x .16

Filter Pack Volume= 5.04 gallons

Filter pack volume (gallons) = saturated borehole filter pack volume (assuming 30% porosity) - saturated well filter pack volume

3 Borehole Volume = **22.93 gallons**

3 Borehole Volumes (gallons) = 3 x (saturated well casing volume + saturated filter pack)

Development Method

Equipment:				Method Description:
Surge		**Bail**		A pump was used to develop the well by surging before pumping. The pump was set at a moderate pumping rate as to get readings before going dry.
Airlift		**Pump**	**X**	

Observations During Development

Date	Time	Depth to Water* (ft)	Total Depth* (ft)	Fluid Removed Gallons	Fluid Removed Total	Temp. (ºC)	pH (units)	S.C. (µS/cm)	Turbidity	Fluid Appearance and Remarks (turbidity, color, odor, etc.)
09/07/25	4:15	17.95	33.91	0.00	0.00	19.7	7.70	1640	na	brown, high turbidty
09/07/25	4:20		33.91	5.00	5.0	19.2	7.70	1647	na	brown, high turbidty
09/07/25	4:23	dry	33.91	3.00	8.0	19.0	7.60	1681	na	brown, high turbidty
09/08/25	10:40	17.78	33.91	0.50	8.5	19.2	7.70	1632	na	brown, high turbidity
09/08/25	10:45		33.91	4.50	13.0	18.5	7.60	1601	na	brown, high turbidity
09/08/25	10:47	dry	33.91	2.50	15.5	18.3	7.50	1685	na	brown, high turbidity
09/10/25	11:05	17.70	33.91	0.50	16.0	18.3	7.50	1691	6.6	brown, cloudy
09/10/25	11:10		33.91	5.50	5.5	18.0	7.60	1705	15.4	clear
09/10/25	11:13	dry	33.91	3.00	19.0	17.8	7.60	1710	15.2	clear

*from TOC unless otherwise noted in Remarks

WELL DEVELOPMENT RECORD

Project Name:	BREC Wilson	**Project Number:**	188763	**Well Number:**	**MW-117**

Project Information		**Elevation of Monitoring Well**	
Facility Name:	BREC Wilson Station	Ground Surface Elevation (GS):	391.550
Location:	Centertown, Kentucky	Top of Casing Elevation (TOC):	394.540

Well Information		
Date Well Installed:	09/06/25	
Total Depth of Well:	27.53	feet from TOC
Depth to Top of Screen:	17.28	feet from TOC
Length of Casing Screened:	10.00	feet
Borehole Diameter:	6.00	inches
Well Casing Diameter:	2.00	inches
Type of Formation Screened:	Sandstone	

Borehole Volume Calculation: Filter Pack Porosity = 30%

Water Column = 25.73 feet Filter Pack = 12.55 ft Saturated Filter Pack = 12.55 ft

1 Well Volume = 4.20 gallons 5 Well Volume = 21.00 gallons

1 well volume (gallons) = initial height of water column (ft) x .16

Filter Pack Volume= 4.92 gallons

Filter pack volume (gallons) = saturated borehole filter pack volume (assuming 30% porosity) - saturated well filter pack volume

3 Borehole Volume = **27.34 gallons**

3 Borehole Volumes (gallons) = 3 x (saturated well casing volume + saturated filter pack)

Development Method

Equipment:				Method Description:
Surge		**Bail**	**X**	A bailer was used to develop the well first few well volumes. Switched to a pump for the final two readings
Airlift		**Pump**	**X**	

Observations During Development

Date	Time	Depth to Water* (ft)	Total Depth* (ft)	Fluid Removed Gallons	Fluid Removed Total	Temp. (ºC)	pH (units)	S.C. (µS/cm)	Turbidity	Fluid Appearance and Remarks (turbidity, color, odor, etc.)
09/08/25	8:55	1.80	27.25	0	0	16.6	7.90	432	n/a	Brown, cloudy
09/08/25	9:00		27.25	3.0	3.0	16.5	7.80	433	n/a	Brown, cloudy
09/08/25	9:05	dry	27.25	3.0	6.0	-	-	-	-	-
09/08/25	12:50	12.15	27.25	0.5	6.5	20.9	7.60	435	n/a	Brown, cloudy
09/08/25	12:55		27.25	2.5	9.0	18.2	7.50	430	n/a	Brown, cloudy
09/08/25	12:58	dry	27.25	2.0	11.0	-	-	-	-	-
09/10/25	10:00	12.62	27.25	0.5	11.5	18.2	7.50	425	n/a	Light brown, cloudy
09/10/25	10:05		27.25	2.5	14.0	18.0	7.50	436	n/a	clear
09/10/25	10:08	dry	27.25	3.0	17.0	-	-	-	-	-

WELL DEVELOPMENT RECORD

Project Name:	BREC Wilson	**Project Number:**	188763	**Well Number:**	**MW-118**

Project Information		**Elevation of Monitoring Well**	
Facility Name:	BREC Wilson Station	Ground Surface Elevation (GS):	405.350
Location:	Centertown, Kentucky	Top of Casing Elevation (TOC):	408.570

Well Information			**Borehole Volume Calculation:**					
Date Well Installed:	09/15/25		Water Column =	16.14	feet	Filter Pack =	12.72 ft	Saturated Filter Pack = 12.72 ft
Total Depth of Well:	37.93	feet from TOC	1 Well Volume =	2.63	gallons	5 Well Volume =	13.17	gallons
Depth to Top of Screen:	27.68	feet from TOC	1 well volume (gallons) = initial height of water column (ft) x .16					
Length of Casing Screened:	10.00	feet	Filter Pack Volume=	4.98	gallons			
Borehole Diameter:	6.00	inches	Filter pack volume (gallons) = saturated borehole filter pack volume (assuming 30% porosity) - saturated well filter pack volume					
Well Casing Diameter:	2.00	inches	3 Borehole Volume =	**22.85**	**gallons**			
Type of Formation Screened:	Sandstone		3 Borehole Volumes (gallons) = 3 x (saturated well casing volume + saturated filter pack)					

Filter Pack Porosity = 30%

Development Method				
Equipment:				Method Description:
Surge		**Bail**	**X**	A bailer was used to develop the well first few well volumes. Switched to a pump for the final two readings
Airlift		**Pump**	**X**	

Observations During Development

Date	Time	Depth to Water* (ft)	Total Depth* (ft)	Fluid Removed Gallons	Fluid Removed Total	Temp. (ºC)	pH (units)	S.C. (µS/cm)	Turbidity	Fluid Appearance and Remarks (turbidity, color, odor, etc.)
09/17/25	11:30	21.79	37.93	0	0	23.9	8.00	1108	na	grey, high turbidity
09/17/25	11:35		37.93	3.0	3.0	20.5	7.80	1127	na	grey, high turbidity
09/17/25	11:40		37.93	3.0	6.0	19.5	7.80	1173	na	grey, high turbidity
09/17/25	11:42	dry	37.93	3.0	9.0	-	-	-	-	-
09/18/25	7:30	12.15	37.93	0.5	9.5	20.7	7.80	1108	na	Brown, cloudy
09/18/25	7:35		37.93	2.5	12.0	19.1	7.70	1130	na	Brown, cloudy
09/18/25	7:40		37.93	3.0	15.0	19.0	7.70	1156	na	Brown, cloudy
09/18/25	7:48	dry	37.93	1.0	16.0	-	-	-	-	-
09/18/25	3:00	12.62	37.93	0.5	16.5	19.0	7.80	1128	na	Light brown, cloudy
09/18/25	3:05		37.93	2.5	19.0	18.8	7.80	1156	na	Light brown, cloudy
09/18/25	3:10		37.93	3.0	22.0	18.8	7.70	1181	na	clear
09/18/25	3:15	dry	37.93	2.0	24.0	-	-	-	-	-

*from TOC unless otherwise noted in Remarks

WELL DEVELOPMENT RECORD

Project Name:	BREC Wilson	**Project Number:**	188763	**Well Number:**	**MW-119A**

Project Information		**Elevation of Monitoring Well**	
Facility Name:	BREC Wilson Station	Ground Surface Elevation (GS):	463.580
Location:	Centertown, Kentucky	Top of Casing Elevation (TOC):	466.060

Well Information		
Date Well Installed:	09/05/25	
Total Depth of Well:	48.08	feet from TOC
Depth to Top of Screen:	37.83	feet from TOC
Length of Casing Screened:	10.00	feet
Borehole Diameter:	7.00	inches
Well Casing Diameter:	2.00	inches
Type of Formation Screened:	Alluvium (Clay)	

Borehole Volume Calculation: Filter Pack Porosity = 30%

Water Column = 48.08 feet Filter Pack = 12.99 ft Saturated Filter Pack = 12.99 ft

1 Well Volume = 7.85 gallons 5 Well Volume = 39.23 gallons

1 well volume (gallons) = initial height of water column (ft) x .16

Filter Pack Volume= 7.15 gallons

Filter pack volume (gallons) = saturated borehole filter pack volume (assuming 30% porosity) - saturated well filter pack volume

3 Borehole Volume = **45.00 gallons**

3 Borehole Volumes (gallons) = 3 x (saturated well casing volume + saturated filter pack)

Development Method

Equipment:				Method Description:
Surge		**Bail**	**X**	A bailer was used to develop the well first few well volumes. Switched to a pump for the final two readings
Airlift		**Pump**	**X**	

Observations During Development

Date	Time	Depth to Water* (ft)	Total Depth* (ft)	Fluid Removed Gallons	Fluid Removed Total	Temp. (ºC)	pH (units)	S.C. (µS/cm)	Turbidity	Fluid Appearance and Remarks (turbidity, color, odor, etc.)
09/06/25	3:40	0.00	48.08	0	0	21.8	7.90	403	n/a	brown, high turbidity
09/06/25	3:45		48.08	5.0	5.0	22.0	7.80	415	n/a	brown, high turbidity
09/06/25	3:50	dry	48.08	2.0	7.0	-	-	-	-	-
09/08/25	8:40	12.02	48.08	0.5	7.5	16.9	7.60	1143	n/a	brown, cloudy
09/08/25	8:45		48.08	4.5	12.0	16.9	7.50	1105	n/a	brown, cloudy
09/08/25	8:47	dry	48.08	2.0	14.0	-	-	-	-	-
09/10/25	12:00	19.26	48.08	0.5	14.5	169.0	7.60	1107	n/a	clear
09/10/25	12:05		48.08	5.5	20.0	16.8	7.50	1117	n/a	clear
09/10/25	12:08	dry	48.08	2.0	22.0	-	-	-	-	-

*from TOC unless otherwise noted in Remarks

WELL DEVELOPMENT RECORD

Project Name:	BREC Wilson	**Project Number:**	188763	**Well Number:**	**MW-119**

Project Information		**Elevation of Monitoring Well**	
Facility Name:	Big Rivers Energy Company Wilson Station	Ground Surface Elevation (GS):	392.670
Location:	Centertown, Kentucky	Top of Casing Elevation (TOC):	395.570

Well Information		
Date Well Installed:	09/05/25	
Total Depth of Well:	69.30	feet from TOC
Depth to Top of Screen:	59.05	feet from TOC
Length of Casing Screened:	10.00	feet
Borehole Diameter:	6.00	inches
Well Casing Diameter:	2.00	inches
Type of Formation Screened:	Alluvium (Sand)	

Borehole Volume Calculation: Filter Pack Porosity = 30%

Water Column = 36.56 feet Filter Pack = 12.41 ft Saturated Filter Pack = 12.41 ft

1 Well Volume = 5.97 gallons 5 Well Volume = 29.83 gallons

1 well volume (gallons) = initial height of water column (ft) x .16

Filter Pack Volume= 4.86 gallons

Filter pack volume (gallons) = saturated borehole filter pack volume (assuming 30% porosity) - saturated well filter pack volume

3 Borehole Volume = **32.48 gallons**

3 Borehole Volumes (gallons) = 3 x (saturated well casing volume + saturated filter pack)

Development Method

Equipment:				Method Description:
Surge		**Bail**		A pump was used to develop the well by surging before pumping. The pump was set at a moderate pumping rate as to get readings before going dry.
Airlift		**Pump**	**X**	

Observations During Development

Date	Time	Depth to Water* (ft)	Total Depth* (ft)	Fluid Removed Gallons	Fluid Removed Total	Temp. (ºC)	pH (units)	S.C. (µS/cm)	Turbidity	Fluid Appearance and Remarks (turbidity, color, odor, etc.)
09/06/25	13:05	32.74	69.30	0.5	0.5	13.8	8.2	417.0	na	Borwn, high tubidity
09/06/25	13:10	32.74	69.30	6.0	6.5	19.5	7.7	402.0	na	light grey, high turbidity
09/06/25	13:15	32.74	69.30	6.0	12.5	19.6	7.7	412.0	na	light grey, high turbidity
09/06/25	13:20	32.74	69.30	6.0	18.5	19.5	7.6	407.0	na	cloudy
09/06/25	13:25	32.74	69.30	6.0	24.5	18.5	7.5	418.0	na	cloudy
09/06/25	13:30	32.74	69.30	6.0	30.5	19.8	7.6	421.0	na	clear

*from TOC unless otherwise noted in Remarks

WELL DEVELOPMENT RECORD

Project Name:	BREC Wilson	**Project Number:**	188763	**Well Number:**	**MW-120**

Project Information		**Elevation of Monitoring Well**	
Facility Name:	Big Rivers Energy Company Wilson Station	Ground Surface Elevation (GS):	418.220
Location:	Centertown, Kentucky	Top of Casing Elevation (TOC):	421.280

Well Information		
Date Well Installed:	09/09/25	
Total Depth of Well:	47.56	feet from TOC
Depth to Top of Screen:	37.31	feet from TOC
Length of Casing Screened:	10.00	feet
Borehole Diameter:	6.00	inches
Well Casing Diameter:	2.00	inches
Type of Formation Screened:	Mine Spoils	

Borehole Volume Calculation: Filter Pack Porosity = 30%

Water Column = 11.36 feet Filter Pack = 12.01 ft Saturated Filter Pack = 11.36 ft

1 Well Volume = 1.85 gallons 5 Well Volume = 9.27 gallons

1 well volume (gallons) = initial height of water column (ft) x .16

Filter Pack Volume= 4.45 gallons

Filter pack volume (gallons) = saturated borehole filter pack volume (assuming 30% porosity) - saturated well filter pack volume

3 Borehole Volume = **18.91 gallons**

3 Borehole Volumes (gallons) = 3 x (saturated well casing volume + saturated filter pack)

Development Method

Equipment:				Method Description:
Surge		**Bail**		A pump was used to develop the well by surging before pumping. The pump was set at a moderate pumping rate as to get readings before going dry.
Airlift		**Pump**	**X**	

Observations During Development

Date	Time	Depth to Water* (ft)	Total Depth* (ft)	Fluid Removed Gallons	Fluid Removed Total	Temp. (ºC)	pH (units)	S.C. (µS/cm)	Turbidity	Fluid Appearance and Remarks (turbidity, color, odor, etc.)
09/17/25	2:00	36.20	47.45	0.5	0.5	20.9	7.5	181.6	na	Grey, high turbidity
09/17/25	2:05	36.20	47.45	4.5	5.0	21.0	7.0	196.7	na	Brown high turbidity
09/17/25	2:10	36.20	47.45	5.0	10.0	19.5	6.8	197.8	na	clear
09/17/25	2:15	36.20	47.45	5.0	15.0	19.6	6.7	203.7	na	clear
09/17/25	2:20	36.20	47.45	5.0	20.0	19.4	6.6	210.1	na	clear
09/17/25	2:25	36.20	47.45	5.0	25.0	19.0	6.7	215.6	na	clear
09/17/25	2:30	36.20	47.45	5.0	30.0	19.1	6.7	217.1	na	clear
09/17/25	2:35	36.20	47.45	5.0	35.0	19.2	6.8	220.8	na	clear
09/17/25	2:40	36.20	47.45	10.0	45.0	19.0	6.7	219.7	na	clear
09/17/25	2:45	36.20	47.45	10.0	55.0	19.1	6.7	222.3	na	clear

*from TOC unless otherwise noted in Remarks

Appendix L – Monitoring Well Survey Report

ASSOCIATED ENGINEERS, INC.
ENGINEERS • GEOLOGISTS • SURVEYORS

Big Rivers Electric Corporation
DB Wilson

Monitoring Well Surveyed Locations
Surveyed September 24, 2025

Client: Big Rivers Electric Corporation

Field Surveyors: M. Brandon Lynn / Zach Paul
Licensed Surveyor: James D. Cansler, LPLS
Survey Method: GPS (RTK)
Equipment: Carlson BRX7
Control System: BREC – DW Wilson (Local)
Primary Reference Point: Mon P2-1

Associated Engineers, Inc. (AEI) has been retained by Big Rivers Electric Corporation via request from Burns & McDonnell Engineering Company for the purpose of surveying the location of ten (10) new ground water monitoring wells at Big Rivers Electric Corporations' DB Wilson. The location and elevation of the ground surface, well pad, top of well casing, and top of well pipe were recorded at each location. The naming convention for the wells was provided to AEI by the client. Below is the tabulated location information for each well:

WELL NUMBER	MW 105RB	MW 110A	MW 115	MW 115A	MW 116
NORTH	409930.72	410065.45	409695.95	409690.87	410025.48
EAST	1608907.26	1610848.26	1613784.16	1613783.33	1614017.19
TOP OF CASING ELEV.	397.14	394.27	393.03	393.34	412.63
TOP OF WELL PIPE ELEV.	396.72	393.82	392.76	392.79	412.37
TOP OF PAD ELEV.	393.74	390.88	389.93	389.99	409.50
GROND ELEV.	393.72	390.53	389.86	389.95	409.31
LATITUDE	N37°27'05.79"	N37°27'07.39"	N37°27'04.15"	N37°27'04.10"	N37°27'07.44"
LONGITUDE	W87°05'50.29"	W87°05'26.24"	W87°04'49.77"	W87°04'49.78"	W87°04'46.94"
HRMS*	0.026	0.017	0.016	0.018	0.019
VRMS**	0.051	0.032	0.031	0.036	0.036

WELL NUMBER	MW 117	MW 118	MW 119	MW 119A	MW 120
NORTH	410584.00	410524.07	411682.83	411677.99	411220.20
EAST	1610652.98	1609001.94	1607346.67	1607346.02	1608852.50
TOP OF CASING ELEV.	394.91	408.93	395.87	395.96	421.73
TOP OF WELL PIPE ELEV.	394.54	408.57	395.57	395.65	421.28
TOP OF PAD ELEV.	391.59	405.68	392.87	392.67	418.36
GROND ELEV.	391.55	405.35	392.67	392.55	418.22
LATITUDE	N37°27'12.49"	N37°27'11.67"	N37°27'22.89"	N37°27'22.84"	N37°27'18.53"
LONGITUDE	W87°05'28.76"	W87°05'49.22"	W87°06'09.95"	W87°06'09.96"	W87°05'51.20"
HRMS*	0.027	0.017	0.022	0.017	0.023
VRMS**	0.061	0.033	0.038	0.030	0.040

***Horizontal Root-Mean-Square** (HRMS)

****Vertical Root-Mean-Square** (VRMS)

If there are any further questions feel free to contact me at
270-821-7732 / jcansler@associatedengineers.com

James D. Cansler, LPLS
October 01, 2025

Appendix M – IDW Laboratory Analytical Reports

Pace Analytical Services, LLC
P.O. Box 907
Madisonville, KY 42431
270.821.7375
www.pacelabs.com

Certificate of Analysis
5094701

Brian Edwards
Big Rivers Electric Corporation Wilson Station
PO Box 20015
Owensboro, KY 42304

Customer ID: 44-100168
Report Printed: 10/13/2025 16:12

Project Name:	Wilson IDW Project - Soils	Workorder:	5094701

Dear Brian Edwards

Enclosed are the analytical results for samples received by the laboratory 09/19/2025 12:27.

The results relate to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services LLC Kentucky - Madisonville - 825 Industrial Road, Madisonville, KY 42431

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

#460210 Madisonville, KY
#460291 Pikeville, KY
#E871136 Englewood, OH

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Rob Whittington, Project Manager

Pace Analytical Services, LLC
P.O. Box 907
Madisonville, KY 42431
270.821.7375
www.pacelabs.com

SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
5094701-01	Soil 1/	Solid	09/19/2025 09:15	09/19/2025 12:27	Client
5094701-02	Soil 2/	Solid	09/19/2025 09:20	09/19/2025 12:27	Client

Pace Analytical Services, LLC
P.O. Box 907
Madisonville, KY 42431
270.821.7375
www.pacelabs.com

ANALYTICAL RESULTS

Lab Sample ID: **5094701-01**
Description: **Soil 1**

Sample Collection Date Time: 09/19/2025 09:15
Sample Received Date Time: 09/19/2025 12:27

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	**5.61**	M1, Y5	mg/kg dry	0.07	0.06	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:52	HJS
Barium	**30.6**	M2	mg/kg dry	0.1	0.04	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:52	HJS
Boron	ND	U, D2, M2, V1	mg/kg dry	35.8	35.8	SW846 6010 B	09/23/2025 08:19	09/23/2025 22:11	MRWD
Cadmium	**0.12**		mg/kg dry	0.04	0.004	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:52	HJS
Calcium	**5500**	D1, M2	mg/kg dry	1430	466	SW846 6010 B	09/23/2025 08:19	09/23/2025 22:14	MRWD
Chromium	**11.1**	M1, M2, Y2	mg/kg dry	0.07	0.02	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:52	HJS
Cobalt	**10.4**	M1, M2	mg/kg dry	0.143	0.143	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:52	HJS
Lead	**9.1**	M1, M2	mg/kg dry	0.07	0.02	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:52	HJS
Lithium	**5.9**	D2, M1, Y5, J	mg/kg dry	7.2	1.8	SW846-6020 A	09/23/2025 08:19	09/25/2025 11:19	HJS
Mercury	**0.0166**	M1, J	mg/kg dry	0.0179	0.0072	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:52	HJS
Selenium	ND	D2, M2, U	mg/kg dry	1.08	0.36	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:54	HJS
Silver	**0.04**		mg/kg dry	0.04	0.01	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:52	HJS

Metals (TCLP) by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	ND	U, D2	mg/L	0.100	0.100	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:38	HJS
Barium	**0.619**	D2	mg/L	0.400	0.400	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:38	HJS
Cadmium	ND	U, D2	mg/L	0.100	0.100	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:38	HJS
Chromium	ND	D2, U	mg/L	0.200	0.200	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:38	HJS
Lead	ND	D2, U	mg/L	0.200	0.200	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:38	HJS
Mercury	ND	D2, U	mg/L	0.0500	0.0500	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:38	HJS
Selenium	ND	D2, U	mg/L	0.300	0.300	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:38	HJS
Silver	ND	D2, U	mg/L	0.100	0.100	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:38	HJS

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Flashpoint - Ignitability	No Flash Below 200°F		°F	1.0	1.0	SW846-1010	09/29/2025 07:38	09/29/2025 07:38	CLL
Paint Filter Test	Pass	_Pass	Pass/Fail	1.00	1.00	SW846-9095 B	09/25/2025 11:39	09/25/2025 14:18	JWKD
pH (Lab)	**6.0**		Std. Units	0.1	0.1	SW846-9045	09/23/2025 11:44	09/23/2025 11:51	AED

Conventional Chemistry Analysis

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Solids	**91.9**		%	0.001	0.001	2540 G-2015	09/26/2025 12:02	09/26/2025 12:02	HAG

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**4.9**	J	mg/kg dry	5.4	0.8	SW846 9056	09/22/2025 09:17	09/22/2025 14:14	CDD
Sulfate	**343**		mg/kg dry	11	5	SW846 9056	09/22/2025 14:14	09/22/2025 14:14	CDD

TCLP Non Volatile Extraction and Filtration Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Initial pH	**7.58**			0.100	0.00	SW846-1311	09/22/2025 15:10	09/23/2025 11:49	KSD
Final pH	**5.08**			0.100	0.00	SW846-1311	09/22/2025 15:10	09/23/2025 11:49	KSD
Filterable Solids	**100**				0.00	SW846-1311	09/22/2025 15:10	09/23/2025 11:49	KSD
Extraction Fluid #	**1.00**			0.00	0.00	SW846-1311	09/22/2025 15:10	09/23/2025 11:49	KSD
Rotation Time (Hrs)	**16.9**			0.00	0.00	SW846-1311	09/22/2025 15:10	09/23/2025 11:49	KSD
Temperature (min) oC TCLP	**22.0**					SW846-1311	09/22/2025 15:10	09/23/2025 11:49	KSD
Temperature (max) oC TCLP	**23.0**					SW846-1311	09/22/2025 15:10	09/23/2025 11:49	KSD

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ANALYTICAL RESULTS

Lab Sample ID: **5094701-02**
Description: **Soil 2**

Sample Collection Date Time: 09/19/2025 09:20
Sample Received Date Time: 09/19/2025 12:27

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	**4.69**		mg/kg dry	0.08	0.06	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:58	HJS
Barium	**22.5**		mg/kg dry	0.2	0.04	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:58	HJS
Boron	ND	D2, V1, U	mg/kg dry	37.8	37.8	SW846 6010 B	09/23/2025 08:19	09/23/2025 22:20	MRWD
Cadmium	**0.21**		mg/kg dry	0.04	0.004	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:58	HJS
Calcium	**2110**	D1	mg/kg dry	151	49.1	SW846 6010 B	09/23/2025 08:19	09/23/2025 22:20	MRWD
Chromium	**6.60**		mg/kg dry	0.08	0.02	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:58	HJS
Cobalt	**6.49**		mg/kg dry	0.151	0.151	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:58	HJS
Lead	**6.6**		mg/kg dry	0.08	0.02	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:58	HJS
Lithium	**3.2**	D2, J	mg/kg dry	7.6	1.9	SW846-6020 A	09/23/2025 08:19	09/26/2025 11:50	HJS
Mercury	**0.0127**	J	mg/kg dry	0.0189	0.0076	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:58	HJS
Selenium	**0.52**	D2, J	mg/kg dry	1.13	0.38	SW846-6020 A	09/23/2025 08:19	09/24/2025 18:01	HJS
Silver	**0.03**	J	mg/kg dry	0.04	0.02	SW846-6020 A	09/23/2025 08:19	09/24/2025 17:58	HJS

Metals (TCLP) by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	ND	D2, U	mg/L	0.100	0.100	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:40	HJS
Barium	ND	D2, U	mg/L	0.400	0.400	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:40	HJS
Cadmium	ND	D2, U	mg/L	0.100	0.100	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:40	HJS
Chromium	ND	D2, U	mg/L	0.200	0.200	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:40	HJS
Lead	ND	D2, U	mg/L	0.200	0.200	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:40	HJS
Mercury	ND	D2, U	mg/L	0.0500	0.0500	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:40	HJS
Selenium	ND	D2, U	mg/L	0.300	0.300	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:40	HJS
Silver	ND	D2, U	mg/L	0.100	0.100	SW846-6020 A	09/23/2025 11:17	09/24/2025 11:40	HJS

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Flashpoint - Ignitability	No Flash Below 200°F		°F	1.0	1.0	SW846-1010	09/29/2025 07:38	09/29/2025 07:38	CLL
Paint Filter Test	Pass	_Pass	Pass/Fail	1.00	1.00	SW846-9095 B	09/25/2025 11:39	09/25/2025 14:18	JWKD
pH (Lab)	**6.5**		Std. Units	0.1	0.1	SW846-9045	09/23/2025 11:44	09/23/2025 11:51	AED

Conventional Chemistry Analysis

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Solids	**88.1**		%	0.001	0.001	2540 G-2015	09/26/2025 12:02	09/26/2025 12:02	HAG

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			-	10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-			-	10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-			-	10/13/2025 15:40	10/13/2025 15:45	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW
See Attached Subcontract Report	0.00		-		-		10/13/2025 15:40	10/13/2025 15:45	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**16.4**		mg/kg dry	5.6	0.8	SW846 9056	09/22/2025 09:17	09/22/2025 14:37	CDD
Sulfate	**616**		mg/kg dry	11	6	SW846 9056	09/22/2025 14:37	09/22/2025 14:37	CDD

TCLP Non Volatile Extraction and Filtration Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Initial pH	**7.08**			0.100	0.00	SW846-1311	09/22/2025 15:10	09/23/2025 10:16	KSD
Final pH	**5.05**			0.100	0.00	SW846-1311	09/22/2025 15:10	09/23/2025 10:16	KSD
Filterable Solids	**100**				0.00	SW846-1311	09/22/2025 15:10	09/23/2025 10:16	KSD
Extraction Fluid #	**1.00**			0.00	0.00	SW846-1311	09/22/2025 15:10	09/23/2025 10:16	KSD
Rotation Time (Hrs)	**16.9**			0.00	0.00	SW846-1311	09/22/2025 15:10	09/23/2025 10:16	KSD
Temperature (min) oC TCLP	**22.0**					SW846-1311	09/22/2025 15:10	09/23/2025 10:16	KSD
Temperature (max) oC TCLP	**23.0**					SW846-1311	09/22/2025 15:10	09/23/2025 10:16	KSD

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Notes for work order 5094701

- Samples collected by PACE personnel are done so in accordance with procedures set forth in PACE field services SOPs .
- Results contained in this report are only representative of the samples received.
- PACE does not provide interpretation of these results unless otherwise stated .
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Qualifiers

_Pass	Pass
D1	Sample required dilution due to high concentration of target analyte.
D2	Sample required dilution due to matrix interference.
F-01	No Flash Below 200°F
J	Estimated value.
L2	The associated blank spike recovery was below method acceptance limits.
M1	Matrix spike recovery was high; the method control sample recovery was acceptable.
M2	Matrix spike recovery was low; the method control sample recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
U	Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).
V1	CCV recovery was above method acceptance limits. This target analyte not detected in the sample.
Y2	MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.
Y5	MS/MSD RPD exceeded the method control limit.

Standard Qualifiers/Acronyms

MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
>	Greater than
<	Less than

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2245 - EPA 3005A										
Blank (BEI2245-BLK1)										
Prepared: 9/23/2025 8:19, Analyzed: 9/23/2025 22:01										
Boron	ND	20.0	mg/kg wet							U
Calcium	ND	80.0	mg/kg wet							U
Blank (BEI2245-BLK2)										
Prepared: 9/23/2025 8:19, Analyzed: 9/24/2025 17:35										
Mercury	ND	0.100	mg/kg wet							U
Arsenic	ND	0.40	mg/kg wet							U
Barium	ND	0.8	mg/kg wet							U
Cadmium	ND	0.20	mg/kg wet							U
Chromium	ND	0.40	mg/kg wet							U
Cobalt	ND	0.800	mg/kg wet							U
Lead	ND	0.4	mg/kg wet							U
Lithium	ND	4.0	mg/kg wet							U
Selenium	ND	0.60	mg/kg wet							U
Silver	ND	0.20	mg/kg wet							U
Blank (BEI2245-BLK3)										
Prepared: 9/23/2025 8:19, Analyzed: 9/25/2025 11:14										
Lithium	ND	4.0	mg/kg wet							U
LCS (BEI2245-BS1)										
Prepared: 9/23/2025 8:19, Analyzed: 9/23/2025 22:04										
Boron	25.8	20.0	mg/kg wet	25.0		103	85-115			
Calcium	1240	80.0	mg/kg wet	1250		99.5	85-115			
LCS (BEI2245-BS2)										
Prepared: 9/23/2025 8:19, Analyzed: 9/24/2025 17:38										
Mercury	0.480	0.100	mg/kg wet	0.500		96.1	85-115			
Arsenic	12.6	0.40	mg/kg wet	12.5		100	85-115			
Barium	12.1	0.8	mg/kg wet	12.5		96.5	85-115			
Cadmium	12.0	0.20	mg/kg wet	12.5		96.3	85-115			
Chromium	12.4	0.40	mg/kg wet	12.5		99.2	85-115			
Cobalt	12.0	0.800	mg/kg wet	12.5		96.0	85-115			
Lead	12.0	0.4	mg/kg wet	12.5		95.7	85-115			
Lithium	10.3	4.0	mg/kg wet	12.5		82.6	85-115			L2
Selenium	12.2	0.60	mg/kg wet	12.5		97.4	85-115			
Silver	11.7	0.20	mg/kg wet	12.5		93.8	85-115			

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2245 - EPA 3005A										
LCS (BEI2245-BS3)										
Prepared: 9/23/2025 8:19, Analyzed: 9/25/2025 11:17										
Lithium	11.7	4.0	mg/kg wet	12.5		93.3	85-115			
Matrix Spike (BEI2245-MS1) **Source: 5094701-01**										
Prepared: 9/23/2025 8:19, Analyzed: 9/23/2025 22:39										
Boron	ND	361	mg/kg dry	4.52	ND		80-120			D2, M2, U
Calcium	6620	1450	mg/kg dry	226	5500	494	80-120			D2, M2
Matrix Spike (BEI2245-MS2) **Source: 5094701-01**										
Prepared: 9/23/2025 8:19, Analyzed: 9/24/2025 18:08										
Mercury	0.102	0.181	mg/kg dry	0.0904	ND	113	80-120			D2, J
Arsenic	8.22	0.72	mg/kg dry	2.26	5.61	116	80-120			D2
Barium	30.1	1.4	mg/kg dry	2.26	30.6	NR	80-120			D2, M2
Cadmium	2.12	0.36	mg/kg dry	2.26	0.12	88.5	80-120			D2
Chromium	15.6	0.72	mg/kg dry	2.26	11.1	201	80-120			D2, M1
Cobalt	15.6	1.45	mg/kg dry	2.26	10.4	232	80-120			D2, M1
Lead	13.4	0.7	mg/kg dry	2.26	9.1	190	80-120			D2, M1
Lithium	15.2	7.2	mg/kg dry	2.26	5.9	410	80-120			D2, M1
Selenium	1.88	1.08	mg/kg dry	2.26	ND	83.2	80-120			D2
Silver	2.00	0.36	mg/kg dry	2.26	ND	88.6	80-120			D2
Matrix Spike Dup (BEI2245-MSD1) **Source: 5094701-01**										
Prepared: 9/23/2025 8:19, Analyzed: 9/23/2025 22:42										
Boron	ND	358	mg/kg dry	4.48	ND		80-120		20	D2, M2, U
Calcium	3890	1430	mg/kg dry	224	5500	NR	80-120	NR	20	D2, M2
Matrix Spike Dup (BEI2245-MSD2) **Source: 5094701-01**										
Prepared: 9/23/2025 8:19, Analyzed: 9/24/2025 18:10										
Mercury	0.109	0.179	mg/kg dry	0.0896	ND	121	80-120	7.07	20	D2, M1, J
Arsenic	10.7	0.72	mg/kg dry	2.24	5.61	226	80-120	64.6	20	D2, M1, Y5
Barium	18.6	1.4	mg/kg dry	2.24	30.6	NR	80-120	NR	20	D2, M2
Cadmium	2.09	0.36	mg/kg dry	2.24	0.12	88.1	80-120	0.465	20	D2
Chromium	13.8	0.72	mg/kg dry	2.24	11.1	119	80-120	51.1	20	D2, Y2
Cobalt	15.4	1.43	mg/kg dry	2.24	10.4	227	80-120	2.22	20	D2, M1
Lead	12.7	0.7	mg/kg dry	2.24	9.1	158	80-120	18.5	20	D2, M1
Lithium	13.1	7.2	mg/kg dry	2.24	5.9	322	80-120	24.1	20	D2, M1, Y5
Selenium	1.95	1.07	mg/kg dry	2.24	ND	86.9	80-120	4.40	20	D2
Silver	1.95	0.36	mg/kg dry	2.24	ND	87.0	80-120	1.86	20	D2

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2245 - EPA 3005A										
Post Spike (BEI2245-PS1)	**Source: 5094701-01**									
Prepared: 9/23/2025 8:19, Analyzed: 9/23/2025 22:46										
Boron	198		ug/L	125	100	78.4	75-125			D2
Calcium	156000		ug/L	6250	152000	71.0	75-125			D2, M2
Post Spike (BEI2245-PS2)	**Source: 5094701-01**									
Prepared: 9/23/2025 8:19, Analyzed: 9/24/2025 18:24										
Mercury	2.76		ug/L	2.50	0.459	92.0	75-125			D2
Arsenic	203		ug/L	62.5	155	76.6	75-125			D2
Barium	848		ug/L	62.5	845	5.27	75-125			D2, M2
Cadmium	53.9		ug/L	62.5	3.22	81.1	75-125			D2
Chromium	323		ug/L	62.5	306	26.1	75-125			D2, M2
Cobalt	315		ug/L	62.5	286	46.0	75-125			D2, M2
Lead	283		ug/L	62.5	252	49.7	75-125			D2, M2
Lithium	321		ug/L	62.5	164	251	75-125			D2, M1
Selenium	49.7		ug/L	62.5	5.46	70.7	75-125			D2, M2
Silver	51.3		ug/L	62.5	1.01	80.4	75-125			D2

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Metals (TCLP) by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2339 - EPA 200.2										
Blank (BEI2339-BLK1)										
Prepared: 9/23/2025 11:17, Analyzed: 9/24/2025 11:08										
Arsenic	ND	0.0010	mg/L							U
Barium	ND	0.004	mg/L							U
Mercury	ND	0.0005	mg/L							U
Cadmium	ND	0.0010	mg/L							U
Chromium	ND	0.0020	mg/L							U
Lead	ND	0.002	mg/L							U
Selenium	ND	0.0030	mg/L							U
Silver	ND	0.0010	mg/L							U
Blank (BEI2339-BLK2)										
Prepared: 9/23/2025 11:17, Analyzed: 9/24/2025 11:22										
Arsenic	ND	0.100	mg/L							D2, U
Barium	ND	0.400	mg/L							D2, U
Mercury	ND	0.0500	mg/L							D2, U
Cadmium	ND	0.100	mg/L							D2, U
Chromium	ND	0.200	mg/L							D2, U
Lead	ND	0.200	mg/L							D2, U
Selenium	ND	0.300	mg/L							D2, U
Silver	ND	0.100	mg/L							D2, U
Blank (BEI2339-BLK3)										
Prepared: 9/23/2025 11:17, Analyzed: 9/24/2025 11:24										
Arsenic	ND	0.100	mg/L							D2, U
Barium	ND	0.400	mg/L							D2, U
Mercury	ND	0.0500	mg/L							D2, U
Cadmium	ND	0.100	mg/L							D2, U
Chromium	ND	0.200	mg/L							D2, U
Lead	ND	0.200	mg/L							D2, U
Selenium	ND	0.300	mg/L							D2, U
Silver	ND	0.100	mg/L							D2, U

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Madisonville, KY 42431
270.821.7375
www.pacelabs.com

Metals (TCLP) by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2339 - EPA 200.2										
LCS (BEI2339-BS1)										
Prepared: 9/23/2025 11:17, Analyzed: 9/24/2025 11:26										
Arsenic	0.0615	0.0010	mg/L	0.0625		98.3	85-115			
Barium	0.058	0.004	mg/L	0.0625		93.2	85-115			
Mercury	0.0024	0.0005	mg/L	0.00250		94.3	85-115			
Cadmium	0.0591	0.0010	mg/L	0.0625		94.5	85-115			
Chromium	0.0604	0.0020	mg/L	0.0625		96.6	85-115			
Lead	0.058	0.002	mg/L	0.0625		92.3	85-115			
Selenium	0.0596	0.0030	mg/L	0.0625		95.3	85-115			
Silver	0.0570	0.0010	mg/L	0.0625		91.2	85-115			
Matrix Spike (BEI2339-MS1)	**Source: 5094438-01**									
Prepared: 9/23/2025 11:17, Analyzed: 9/24/2025 11:56										
Arsenic	ND	0.100	mg/L	0.0625	ND		80-120			D2, M4, U
Barium	12.4	0.400	mg/L	0.0625	12.2	248	80-120			D2, M4
Mercury	ND	0.0500	mg/L	0.00250	ND		80-120			D2, M4, U
Cadmium	ND	0.100	mg/L	0.0625	ND		80-120			D2, M4, U
Chromium	ND	0.200	mg/L	0.0625	ND		80-120			D2, M4, U
Lead	ND	0.200	mg/L	0.0625	ND		80-120			D2, M4, U
Selenium	ND	0.300	mg/L	0.0625	ND		80-120			D2, M4, U
Silver	ND	0.100	mg/L	0.0625	ND		80-120			D2, M4, U
Matrix Spike Dup (BEI2339-MSD1)	**Source: 5094438-01**									
Prepared: 9/23/2025 11:17, Analyzed: 9/24/2025 11:59										
Arsenic	ND	0.100	mg/L	0.0625	ND		80-120		20	D2, M4, U
Barium	12.2	0.400	mg/L	0.0625	12.2	NR	80-120	1.60	20	D2, M4
Mercury	ND	0.0500	mg/L	0.00250	ND		80-120		20	D2, M4, U
Cadmium	ND	0.100	mg/L	0.0625	ND		80-120		20	D2, M4, U
Chromium	ND	0.200	mg/L	0.0625	ND		80-120		20	D2, M4, U
Lead	ND	0.200	mg/L	0.0625	ND		80-120		20	D2, M4, U
Selenium	ND	0.300	mg/L	0.0625	ND		80-120		20	D2, M4, U
Silver	ND	0.100	mg/L	0.0625	ND		80-120		20	D2, M4, U

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Metals (TCLP) by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2339 - EPA 200.2										
Post Spike (BEI2339-PS1) **Source: 5094438-01**										
Prepared: 9/23/2025 11:17, Analyzed: 9/24/2025 12:01										
Arsenic	76.4		ug/L	62.5	4.22	115	75-125			D2
Barium	12600		ug/L	62.5	12200	604	75-125			D2, M4
Mercury	2.70		ug/L	2.50	0.896	72.3	75-125			D2, M4
Cadmium	68.8		ug/L	62.5	3.79	104	75-125			D2
Chromium	170		ug/L	62.5	98.0	116	75-125			D2
Lead	68.9		ug/L	62.5	3.94	104	80-120			D2
Selenium	69.9		ug/L	62.5	5.07	104	75-125			D2
Silver	63.9		ug/L	62.5	1.68	99.6	75-125			D2

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Conventional Chemistry Analyses Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2071 - Default Prep Micro										
LCS (BEI2071-BS1)										
Prepared: 9/23/2025 11:44, Analyzed: 9/23/2025 11:51										
pH (Lab)	5.0		Std. Units	5.00		101	98.8-101.2			
Duplicate (BEI2071-DUP1) **Source: 5094701-02**										
Prepared: 9/23/2025 11:44, Analyzed: 9/23/2025 11:51										
pH (Lab)	6.5	0.1	Std. Units		6.5			0.307	10	
Batch BEI2674 - Default Prep Wet Chem										
Duplicate (BEI2674-DUP1) **Source: 5094141-01**										
Prepared: 9/25/2025 11:39, Analyzed: 9/25/2025 14:18										
Paint Filter Test	Pass	1.00	Pass/Fail		ND				200	_Pass
Batch BEI2911 - Default Prep Wet Chem										
LCS (BEI2911-BS1)										
Prepared: 9/29/2025 7:38, Analyzed: 9/29/2025 7:38										
Flashpoint - Ignitability	80.0		°F	77.0		104	94.8-105.2			
LCS (BEI2911-BS2)										
Prepared: 9/29/2025 7:38, Analyzed: 9/29/2025 7:38										
Flashpoint - Ignitability	103		°F	102		101	94.8-105.2			
Duplicate (BEI2911-DUP1) **Source: 5094701-02**										
Prepared: 9/29/2025 7:38, Analyzed: 9/29/2025 7:38										
Flashpoint - Ignitability	ash Below 200°F	1.0	°F		ash Below 2			0.00	10	

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Conventional Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2799 - Default Prep Wet Chem										
Blank (BEI2799-BLK1)										
Prepared: 9/26/2025 12:02, Analyzed: 9/26/2025 12:02										
Total Solids	ND	0.001	%							U
LCS (BEI2799-BS1)										
Prepared: 9/26/2025 12:02, Analyzed: 9/26/2025 12:02										
Total Solids	84.3		%	84.3		100	80-120			
Duplicate (BEI2799-DUP1) **Source: 5093552-01**										
Prepared: 9/26/2025 12:02, Analyzed: 9/26/2025 12:02										
Total Solids	27.2	0.001	%		27.1			0.491	10	
Duplicate (BEI2799-DUP2) **Source: 5094854-06**										
Prepared: 9/26/2025 12:02, Analyzed: 9/26/2025 12:02										
Total Solids	62.7	0.001	%		62.3			0.716	10	

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Ion Chromatography Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2171 - Default Prep IC										
Blank (BEI2171-BLK1)										
Prepared: 9/22/2025 12:00, Analyzed: 9/22/2025 12:00										
Chloride	ND	5.0	mg/kg wet							U
Sulfate	ND	10	mg/kg wet							U
LCS (BEI2171-BS1)										
Prepared: 9/22/2025 12:23, Analyzed: 9/22/2025 12:23										
Chloride	125	5.0	mg/kg wet	125		99.7	90-110			
Sulfate	251	10	mg/kg wet	250		100	90-110			
Matrix Spike (BEI2171-MS1) **Source: 5094555-01**										
Prepared: 9/22/2025 13:30, Analyzed: 9/22/2025 13:30										
Chloride	214	5.5	mg/kg dry	139	36.7	128	75-125			M1
Sulfate	299	11	mg/kg dry	277	12	104	75-125			
Matrix Spike Dup (BEI2171-MSD1) **Source: 5094555-01**										
Prepared: 9/22/2025 13:52, Analyzed: 9/22/2025 13:52										
Chloride	185	5.5	mg/kg dry	138	36.7	107	75-125	14.4	15	
Sulfate	292	11	mg/kg dry	276	12	101	75-125	2.62	15	

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TCLP Non Volatile Extraction and Filtration Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2152 - EPA 1311 NVE										
Blank (BEI2152-BLK1)										
Prepared: 9/22/2025 15:10, Analyzed: 9/23/2025 10:16										
Initial pH	4.92	0.100	[blank]							
Final pH	4.97	0.100	[blank]							
Filterable Solids	100		[blank]							
Extraction Fluid #	1.00	0.00	[blank]							
Rotation Time (Hrs)	16.9	0.00	[blank]							
Temperature (min) oC TCLP	22.0		[blank]							
Temperature (max) oC TCLP	23.0		[blank]							
Batch BEI2327 - EPA 1311 NVE										
Blank (BEI2327-BLK1)										
Prepared: 9/22/2025 15:10, Analyzed: 9/23/2025 11:49										
Initial pH	4.92	0.100	[blank]							
Final pH	4.97	0.100	[blank]							
Filterable Solids	100		[blank]							
Extraction Fluid #	1.00	0.00	[blank]							
Rotation Time (Hrs)	16.9	0.00	[blank]							
Temperature (min) oC TCLP	22.0		[blank]							
Temperature (max) oC TCLP	23.0		[blank]							

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270.821.7375
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Certified Analyses included in this Report

Analyte	Certifications
SW846 6010 B in Solid	
Boron	VA NELAC MDV (460210)
Calcium	VA NELAC MDV (460210)
SW846-1311 in Solid	
Initial pH	VA NELAC MDV (460210)
Final pH	VA NELAC MDV (460210)
Filterable Solids	VA NELAC MDV (460210)
Extraction Fluid #	VA NELAC MDV (460210)
Rotation Time (Hrs)	VA NELAC MDV (460210)
Temperature (min) oC TCLP	VA NELAC MDV (460210)
Temperature (max) oC TCLP	VA NELAC MDV (460210)
SW846-6020 A in Solid	
Mercury	VA NELAC MDV (460210)
Arsenic	VA NELAC MDV (460210)
Barium	VA NELAC MDV (460210)
Cadmium	VA NELAC MDV (460210)
Chromium	VA NELAC MDV (460210)
Cobalt	VA NELAC MDV (460210)
Lead	VA NELAC MDV (460210)
Selenium	VA NELAC MDV (460210)
Silver	VA NELAC MDV (460210)
SW846-6020 A in Water	
Arsenic	VA NELAC MDV (460210)
Barium	VA NELAC MDV (460210)
Mercury	VA NELAC MDV (460210)
Cadmium	VA NELAC MDV (460210)
Chromium	VA NELAC MDV (460210)
Lead	VA NELAC MDV (460210)
Selenium	VA NELAC MDV (460210)
Silver	VA NELAC MDV (460210)
SW846-9095 B in Solid	
Paint Filter Test	WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431

Pace Analytical Services, LLC
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Madisonville, KY 42431
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Sample Acceptance Checklist for Work Order 5094701

Shipped By: Client

Temperature: 28.10° Celcius

Condition	
Check if Custody Seals are Present/Intact	☐
Check if Custody Signatures are Present	☑
Check if Collector Signature Present	☑
Check if bottles are intact	☑
Check if bottles are correct	☑
Check if bottles have sufficient volume	☑
Check if samples received on ice	☐
Check if VOA headspace is acceptable	☐
Check if samples received in holding time.	☑
Check if samples are preserved properly	☑

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/01/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson IDW Project - Soils

Thermometer Serial Number
230753815
240381205
Temperature 38 C

Please Print Legibly

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State:

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ___ No ___

Samples Chlorinated? Yes ___ No ___

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY
Workorder #
5091729

Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5091729-01 A	9/19/25	0915	Glass Jar 4oz	1	~~Soil 1~~ Soil 1DW-1	g / c	Flashpoint Paint Filter pH (Lab) Total Solids
5091729-01 B	"	"	Glass Jar 4oz	1	~~Soil 1~~ Soil 1DW-1	g / c	Flashpoint Paint Filter pH (Lab) Total Solids
5091729-01 C	"	"	CWMG 1L Sub	1	~~Soil 1~~ Soil 1DW-1	g / c	TCLP RCRA Metals Pkg (Sub)
5091729-02 A	9/19/25	0920	Glass Jar 4oz	1	~~Soil 2~~ Soil 2DW-2	g / c	pH (Lab) Total Solids Paint Filter Flashpoint
5091729-02 B	"	"	Glass Jar 4oz	1	~~Soil 2~~ Soil 2DW-2	g / c	Total Solids Flashpoint Paint Filter pH (Lab)
5091729-02 C	"	"	CWMG 1L Sub	1	~~Soil 2~~ Soil 2DW-2	g / c	TCLP RCRA Metals Pkg (Sub)
5091729-03 A			Glass Jar 4oz	1	Soil 3	g / c	Flashpoint Paint Filter pH (Lab) Total Solids
5091729-03 B			Glass Jar 4oz	1	Soil 3	g / c	pH (Lab) Paint Filter Total Solids Flashpoint
5091729-03 C			CWMG 1L Sub	1	Soil 3	g / c	TCLP RCRA Metals Pkg (Sub)
5091729-04 A			Glass Jar 4oz	1	Soil 4	g / c	Paint Filter pH (Lab) Total Solids Flashpoint
5091729-04 B			Glass Jar 4oz	1	Soil 4	g / c	Flashpoint Paint Filter Total Solids pH (Lab)
5091729-04 C			CWMG 1L Sub	1	Soil 4	g / c	TCLP RCRA Metals Pkg (Sub)

5091729 *note: 2 additional 1L jars collected for each sample. Requested Analysis: RCRA 8 metals (includ Hg) Total arsenic, Boron, calcium, cobalt, lithium, mercury, chloride, sulfate. SPLP for Arsenic, Boron, calcium cobalt, lithium, mercury chloride, sulfate

Preservation Check Performed by: _____ pH Paper Lot #: _____

Field data collected by: _____ Date (mm/dd/yy) _____ Time (24 hr) _____

pH _____ Cond (umho) _____ Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) _____ or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		09-19-25	1227

☐ **PACE- Check here if trip charge applied to associated COC**

Printed: 8/25/2025 9:10:31AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/01/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson IDW Project - Soils

Thermometer Serial Number
230753815
240381205
Temperature 28 C

Please Print Legibly

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State:

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ___ No ___

Samples Chlorinated? Yes ___ No ___

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY
Workorder #
5091729

Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5091729-01 A	9/19/25	0915	Glass Jar 4oz	1	~~Soil 1~~ Soil 1DW-1	g / c	Flashpoint Paint Filter pH (Lab) Total Solids
5091729-01 B	"	"	Glass Jar 4oz	1	~~Soil 1~~ Soil 1DW-1	g / c	Flashpoint Paint Filter pH (Lab) Total Solids
5091729-01 C	"	"	CWMG 1L Sub	1	~~Soil 1~~ Soil 1DW-1	g / c	TCLP RCRA Metals Pkg (Sub)
5091729-02 A	9/19/25	0920	Glass Jar 4oz	1	~~Soil 2~~ Soil 2DW-2	g / c	pH (Lab) Total Solids Paint Filter Flashpoint
5091729-02 B	"	"	Glass Jar 4oz	1	~~Soil 2~~ Soil 2DW-2	g / c	Total Solids Flashpoint Paint Filter pH (Lab)
5091729-02 C	"	"	CWMG 1L Sub	1	~~Soil 2~~ Soil 2DW-2	g / c	TCLP RCRA Metals Pkg (Sub)
5091729-03 A			Glass Jar 4oz	1	Soil 3	g / c	Flashpoint Paint Filter pH (Lab) Total Solids
5091729-03 B			Glass Jar 4oz	1	Soil 3	g / c	pH (Lab) Paint Filter Total Solids Flashpoint
5091729-03 C			CWMG 1L Sub	1	Soil 3	g / c	TCLP RCRA Metals Pkg (Sub)
5091729-04 A			Glass Jar 4oz	1	Soil 4	g / c	Paint Filter pH (Lab) Total Solids Flashpoint
5091729-04 B			Glass Jar 4oz	1	Soil 4	g / c	Flashpoint Paint Filter Total Solids pH (Lab)
5091729-04 C			CWMG 1L Sub	1	Soil 4	g / c	TCLP RCRA Metals Pkg (Sub)

5091729 *note: 2 additional 1L jars collected for each sample. Requested Analysis: RCRA 8 metals (includ Hg) Total arsenic, Boron, calcium, cobalt, lithium, mercury, chloride, sulfate. SPLP for Arsenic, Boron, calcium cobalt, lithium, mercury chloride, sulfate

Preservation Check Performed by: _____ pH Paper Lot #: _____

Field data collected by: _____ Date (mm/dd/yy) _____ Time (24 hr) _____

pH _____ Cond (umho) _____ Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) _____ or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		09-19-25	1227

☐ **PACE- Check here if trip charge applied to associated COC**

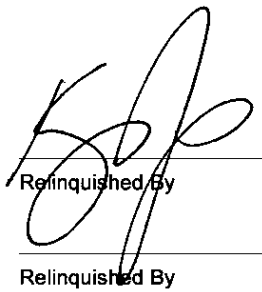
Printed: 8/25/2025 9:10:31AM

Sample Custody

By Kenedy Jessup

Printed 09/22/2025 10:43

Lab ID	Container	Cooler	Last Owner	Department	Location	Home Location	Status	Disposition	Custody Date
5094701-01 C	CWMG 1L Sub	Default Cooler	KLJ	UNASSIGNED	In-Transit		Batched	Active (Out)	09/22/2025 10:43
5094701-02 D	CWMG 1L Sub	Default Cooler	KLJ	UNASSIGNED	In-Transit	Sample Receiving	Batched	Active (Out)	09/22/2025 10:43



9-22-25

Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

October 07, 2025

Rob Whittington
Pace Analytical Madisonville
825 Industrial Rd
Madisonville, KY 42431

RE: Project: 5094701
Pace Project No.: 50413405

Dear Rob Whittington:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

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

Sincerely,

Amanda Gaines
amanda.gaines@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Alicia Barnes, Pace Analytical Madisonville
Michelle Belcher, Pace Analytical Madisonville
Mark DeMoss, Pace Analytical Madisonville
Archie Fugate, Pace Analytical Madisonville
Joe Gray, Pace Analytical Madisonville
Melissia Hill, PACE_KY
Abbey Larkins, Pace Madisonville KY
Miranda Ramey, Pace Analytical Madisonville
Tisha Rowe, Pace Madisonville KY
Christina Schneider, Pace Analytical Dayton

REPORT OF LABORATORY ANALYSIS

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Table of Contents

Sections:

1 2 3 4 5 6 7 8

Section 1: Cert Page 3
Section 2: Sample Summary 4
Section 3: Sample Analyte 5
Section 4: Results 6
Section 5: Quality Control 10
Section 6: Qualifiers 13
Section 7: QC Cross Reference 14
Section 8: Chain of Custody 15
8.1: Chain of Custody 15

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: 5094701
Pace Project No.: 50413405

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Indiana Drinking Water Laboratory #: C-49-06
Kentucky UST Agency Interest #: 80226
Louisiana Certification #: 04076
Oklahoma Laboratory #: 9204
Washington Dept of Ecology #: C1081
USDA Foreign Soil Permit #: 525-23-13-23119
Illinois Accreditation #: 200074
Kansas/TNI Certification #: E-10177
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: 5094701
Pace Project No.: 50413405

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50413405001	**5094701-01**	Solid	09/19/25 09:15	09/23/25 10:00
50413405002	**5094701-02**	Solid	09/19/25 09:20	09/23/25 10:00
50413405003	**5094701-01 Leachate**	Water	09/19/25 09:15	09/23/25 10:00
50413405004	**5094701-02 Leachate**	Water	09/19/25 09:20	09/23/25 10:00

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SAMPLE ANALYTE COUNT

Project: 5094701
Pace Project No.: 50413405

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50413405001	**5094701-01**	ASTM D3987	KDC	1	PASI-I
50413405002	**5094701-02**	ASTM D3987	KDC	1	PASI-I
50413405003	**5094701-01 Leachate**	EPA 300.0	GLT	2	PASI-I
		EPA 200.7	ELK	5	PASI-I
		EPA 245.1	DAW	1	PASI-I
50413405004	**5094701-02 Leachate**	EPA 300.0	GLT	2	PASI-I
		EPA 200.7	ELK	5	PASI-I
		EPA 245.1	DAW	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: 5094701
Pace Project No.: 50413405

Sample: 5094701-01 **Lab ID: 50413405001** Collected: 09/19/25 09:15 Received: 09/23/25 10:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Neutral Leachate	Analytical Method: ASTM D3987 Pace Analytical Services - Indianapolis								
Date Leached	**10/01/2025 14:05:00**	no units			1		10/01/25 14:05		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5094701
Pace Project No.: 50413405

Sample: 5094701-02 **Lab ID: 50413405002** Collected: 09/19/25 09:20 Received: 09/23/25 10:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Neutral Leachate	Analytical Method: ASTM D3987 Pace Analytical Services - Indianapolis								
Date Leached	**10/01/2025 14:05:00**	no units			1		10/01/25 14:05		

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ANALYTICAL RESULTS

Project: 5094701
Pace Project No.: 50413405

Sample: 5094701-01 Leachate **Lab ID: 50413405003** Collected: 09/19/25 09:15 Received: 09/23/25 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Indianapolis								
Chloride	**0.13J**	mg/L	0.25	0.079	1		10/03/25 17:01	16887-00-6	
Sulfate	**32.4**	mg/L	0.25	0.19	1		10/03/25 17:01	14808-79-8	
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Indianapolis								
Arsenic	ND	ug/L	10.0	4.9	1	10/03/25 10:16	10/06/25 11:00	7440-38-2	
Boron	ND	ug/L	100	22.5	1	10/03/25 10:16	10/06/25 11:00	7440-42-8	
Calcium	**15500**	ug/L	1000	150	1	10/03/25 10:16	10/06/25 11:00	7440-70-2	
Cobalt	ND	ug/L	10.0	0.73	1	10/03/25 10:16	10/06/25 11:00	7440-48-4	
Lithium	**7.7J**	ug/L	20.0	5.9	1	10/03/25 10:16	10/06/25 11:00	7439-93-2	N2
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	0.20	0.085	1	10/03/25 10:20	10/03/25 20:55	7439-97-6	

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ANALYTICAL RESULTS

Project: 5094701
Pace Project No.: 50413405

Sample: 5094701-02 Leachate **Lab ID: 50413405004** Collected: 09/19/25 09:20 Received: 09/23/25 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Indianapolis								
Chloride	**0.73**	mg/L	0.25	0.079	1		10/03/25 17:52	16887-00-6	
Sulfate	**162**	mg/L	2.5	1.9	10		10/03/25 18:08	14808-79-8	
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Indianapolis								
Arsenic	ND	ug/L	10.0	4.9	1	10/03/25 10:16	10/06/25 11:02	7440-38-2	
Boron	ND	ug/L	100	22.5	1	10/03/25 10:16	10/06/25 11:02	7440-42-8	
Calcium	**51000**	ug/L	1000	150	1	10/03/25 10:16	10/06/25 11:02	7440-70-2	
Cobalt	**3.7J**	ug/L	10.0	0.73	1	10/03/25 10:16	10/06/25 11:02	7440-48-4	
Lithium	ND	ug/L	20.0	5.9	1	10/03/25 10:16	10/06/25 11:02	7439-93-2	N2
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	0.20	0.085	1	10/03/25 10:20	10/03/25 20:57	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
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QUALITY CONTROL DATA

Project: 5094701
Pace Project No.: 50413405

QC Batch: 866000
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50413405003, 50413405004

METHOD BLANK: 3967652 Matrix: Water

Associated Lab Samples: 50413405003, 50413405004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.079	10/06/25 09:41	
Sulfate	mg/L	ND	0.25	0.19	10/06/25 09:41	

LABORATORY CONTROL SAMPLE: 3967653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3967664 3967665

Parameter	Units	50414040001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	511	250	250	769	767	103	102	80-120	0	15	
Sulfate	mg/L	1590	500	500	2110	2100	102	102	80-120	0	15	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5094701
Pace Project No.: 50413405

QC Batch: 866010
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50413405003, 50413405004

METHOD BLANK: 3967677 Matrix: Water

Associated Lab Samples: 50413405003, 50413405004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.085	10/03/25 20:50	

LABORATORY CONTROL SAMPLE: 3967678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3967679 3967680

Parameter	Units	50414150001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	5	5	4.3	4.2	87	84	70-130	3	20	

MATRIX SPIKE SAMPLE: 3967681

Parameter	Units	50414177005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.8	96	70-130	

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QUALITY CONTROL DATA

Project: 5094701
Pace Project No.: 50413405

QC Batch: 865749
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50413405003, 50413405004

METHOD BLANK: 3966435 Matrix: Water

Associated Lab Samples: 50413405003, 50413405004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	4.9	10/06/25 10:59	
Boron	ug/L	ND	100	22.5	10/06/25 10:59	
Calcium	ug/L	ND	1000	150	10/06/25 10:59	
Cobalt	ug/L	ND	10.0	0.73	10/06/25 10:59	
Lithium	ug/L	ND	20.0	5.9	10/06/25 10:59	N2

LABORATORY CONTROL SAMPLE: 3966436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	974	97	85-115	
Boron	ug/L	1000	946	95	85-115	
Calcium	ug/L	10000	9930	99	85-115	
Cobalt	ug/L	1000	980	98	85-115	
Lithium	ug/L	1000	983	98	85-115	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3966437 3966438

Parameter	Units	50414103004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	1000	1000	993	1000	99	100	70-130	1	20	
Boron	ug/L	135	1000	1000	1110	1100	97	97	70-130	0	20	
Calcium	ug/L	103000	10000	10000	112000	112000	92	87	70-130	0	20	
Cobalt	ug/L	ND	1000	1000	951	956	95	96	70-130	1	20	
Lithium	ug/L	ND	1000	1000	985	1010	97	99	70-130	2	20	N2

MATRIX SPIKE SAMPLE: 3966595

Parameter	Units	50414149001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	173	1000	1190	102	70-130	
Boron	ug/L	57800	1000	59300	150	70-130	P6
Calcium	ug/L	22700	10000	32700	100	70-130	
Cobalt	ug/L	<10.0	1000	975	98	70-130	
Lithium	ug/L	819	1000	1800	98	70-130	N2

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Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: 5094701
Pace Project No.: 50413405

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5094701
Pace Project No.: 50413405

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50413405003	**5094701-01 Leachate**	EPA 300.0	866000		
50413405004	**5094701-02 Leachate**	EPA 300.0	866000		
50413405003	**5094701-01 Leachate**	EPA 200.7	865749	EPA 200.7	866288
50413405004	**5094701-02 Leachate**	EPA 200.7	865749	EPA 200.7	866288
50413405003	**5094701-01 Leachate**	EPA 245.1	866010	EPA 245.1	866123
50413405004	**5094701-02 Leachate**	EPA 245.1	866010	EPA 245.1	866123
50413405001	**5094701-01**	ASTM D3987	865554		
50413405002	**5094701-02**	ASTM D3987	865554		

7

REPORT OF LABORATORY ANALYSIS

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Date: 10/07/2025 04:22 PM

SUBCONTRACT ORDER

Pace Analytical Services, LLC Kentucky

5094701 50413405

SENDING LABORATORY:

Pace Analytical Services, LLC Kentucky
PO BOX 907
Madisonville, KY 42431
Phone: (270) 821-7375
Fax: -
Project Manager: Rob Whittington

RECEIVING LABORATORY:

Pace Analytical Services LLC Indianapolis
7726 Moller Road
Indianapolis, IN 46268
Phone :(317) 228-3100
Fax: (317) 872-6189

Analysis	Expires	Laboratory ID	Comments
Sample ID: 5094701-01 **Solid**	**Sampled:09/19/2025 09:15**	**Specific Method**	
SPLP Sulfate 300.0 (Sub)	09/26/2025 09:15	-	
SPLP Boron (Sub)	09/26/2025 09:15	-	
SPLP Calcium (Sub)	09/26/2025 09:15	-	
SPLP Chloride 300.0 (Sub)	09/26/2025 09:15	-	
SPLP Cobalt (Sub)	09/26/2025 09:15	-	
SPLP Lithium (Sub)	09/26/2025 09:15	-	
SPLP Arsenic (Sub)	09/26/2025 09:15	-	
SPLP Mercury (Sub)	09/26/2025 09:15	-	

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** Ø

Analysis	Expires	Laboratory ID	Comments
Sample ID: 5094701-02 **Solid**	**Sampled:09/19/2025 09:20**	**Specific Method**	
SPLP Sulfate 300.0 (Sub)	09/26/2025 09:20	-	
SPLP Boron (Sub)	09/26/2025 09:20	-	
SPLP Calcium (Sub)	09/26/2025 09:20	-	
SPLP Chloride 300.0 (Sub)	09/26/2025 09:20	-	
SPLP Cobalt (Sub)	09/26/2025 09:20	-	
SPLP Lithium (Sub)	09/26/2025 09:20	-	
SPLP Mercury (Sub)	09/26/2025 09:20	-	
SPLP Arsenic (Sub)	09/26/2025 09:20	-	

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** Ø

Released By	Date	Received By	Date
	9-22-25	UPS	
UPS	9/23/25 1000	PACE	9/23/25 1000

50413405

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TW 9/24/25 900

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

Cooler temp should be above freezing to 6°C

2A. Cooler Temperature(s): 2.4/2.4 | | | |

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

2B. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No

3. Packing Material: Bubble Bags Bubble Wrap None Other:

4. Ice Type: Wet Blue None

5. Courier: FedEx UPS Client Pace NOW Jett Other

6. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No *Leave blank if no seals were present*

All discrepancies will be written out in the comments section below.

	Yes	No	N/A
. USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, IS, NC, SC, GA, FL, or Puerto Rico)			✓
. Short Hold Time Analysis (48 hours or less)?:			✓
. Time 5035A TC placed in Freezer or Short Holds To Lab:	Time:		
0. Rush TAT Requested (4 days or less):			✓
1. Custody Signatures Present?	✓		
2. Containers intact?	✓		
3. Sample Label (IDs/Dates/Times) Match COC?: xcept TCs, which only require sample ID	✓		
4: All containers needing acid/base preservation have been pH HECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container ith a septum cap or preserved with HCl. ircle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) y non-conformance to pH recommendations will be noted on the container count form.			✓
5. Residual Chlorine Present (SVOC 625 Pest/PCB 608)			✓
6. Residual Chlorine Present (Total/Amenable/Free Cyanide)			✓
7. Headspace in VOA Vials (>6mm): See Containter Count form for details			✓
8. Trip Blank Present?			✓
9. Trip Blank Custody Seals?:			✓
0. Extra labels on Terracore Vials? (soils only)			✓

:omments:

8.1

8

17

50413405

COC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1	1																											SL
2	1																											SL
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
!	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

8.1

8

Pace Analytical Services, LLC
P.O. Box 907
Madisonville, KY 42431
270.821.7375
www.pacelabs.com

Certificate of Analysis
5091730

Brian Edwards
Big Rivers Electric Corporation Wilson Station
PO Box 20015
Owensboro, KY 42304

Customer ID: 44-100168
Report Printed: 09/29/2025 16:57

Project Name:	Wilson IDW Project - Liquids	Workorder:	5091730

Dear Brian Edwards

Enclosed are the analytical results for samples received by the laboratory 09/19/2025 12:27.

The results relate to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services LLC Kentucky - Madisonville - 825 Industrial Road, Madisonville, KY 42431

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

#460210 Madisonville, KY
#460291 Pikeville, KY
#E871136 Englewood, OH

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Archie Fugate For Rob Whittington, Project Manager

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
5091730-01	Sample 1/	Wastewater	09/19/2025 10:20	09/19/2025 12:27	Client
5091730-02	Sample 2/	Wastewater	09/19/2025 10:25	09/19/2025 12:27	Client
5091730-03	Sample 3/	Wastewater	09/19/2025 10:30	09/19/2025 12:27	Client
5091730-04	Sample 4/	Wastewater	09/19/2025 10:35	09/19/2025 12:27	Client
5091730-05	Sample 5/	Wastewater	09/19/2025 10:40	09/19/2025 12:27	Client
5091730-06	Sample 6/	Wastewater	09/19/2025 10:45	09/19/2025 12:27	Client

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ANALYTICAL RESULTS

Lab Sample ID: **5091730-01**
Description: **Sample 1**

Sample Collection Date Time: 09/19/2025 10:20
Sample Received Date Time: 09/19/2025 12:27

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	**0.0023**		mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:42	HJS
Barium	**0.055**		mg/L	0.004	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:42	HJS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:42	HJS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:42	HJS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:42	HJS
Mercury	ND	U	mg/L	0.0005	0.0002	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:42	HJS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:42	HJS
Silver	ND	U	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:42	HJS

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
ADMI Color at original pH	**5**		ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
ADMI Color at pH = 7.6	**2**		ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
Flashpoint - Ignitability	No Flash Below 200°F		°F	1.0	1.0	SW846-1010	09/23/2025 07:50	09/23/2025 07:50	CLL
Odor	ND	U	T.O.N.	1		2150 B-2011	09/19/2025 14:07	09/19/2025 14:07	CLL
pH (Lab)	**7.90**	H3	Std. Units	0.10	0.10	SM 4500-H+ B-2011	09/23/2025 10:42	09/23/2025 15:04	AED

Conventional Chemistry Analysis

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Solids	**0.0402**		%	0.00025	0.00025	2540 B/G-2015	09/22/2025 16:29	09/22/2025 16:29	HAG

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ANALYTICAL RESULTS

Lab Sample ID: **5091730-02**
Description: **Sample 2**

Sample Collection Date Time: 09/19/2025 10:25
Sample Received Date Time: 09/19/2025 12:27

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	**0.0011**		mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:45	HJS
Barium	**0.034**		mg/L	0.004	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:45	HJS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:45	HJS
Chromium	**0.0006**	J	mg/L	0.0020	0.0006	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:45	HJS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:45	HJS
Mercury	ND	U	mg/L	0.0005	0.0002	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:45	HJS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:45	HJS
Silver	ND	U	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:45	HJS

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
ADMI Color at original pH	**3**		ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
ADMI Color at pH = 7.6	**2**		ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
Flashpoint - Ignitability	No Flash Below 200°F		°F	1.0	1.0	SW846-1010	09/23/2025 07:50	09/23/2025 07:50	CLL
Odor	ND	U	T.O.N.	1		2150 B-2011	09/19/2025 14:25	09/19/2025 14:25	CLL
pH (Lab)	**8.43**	H3	Std. Units	0.10	0.10	SM 4500-H+ B-2011	09/23/2025 10:42	09/23/2025 15:04	AED

Conventional Chemistry Analysis

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Solids	**0.0388**		%	0.00025	0.00025	2540 B/G-2015	09/22/2025 16:29	09/22/2025 16:29	HAG

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ANALYTICAL RESULTS

Lab Sample ID: **5091730-03**
Description: **Sample 3**

Sample Collection Date Time: 09/19/2025 10:30
Sample Received Date Time: 09/19/2025 12:27

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	**0.0007**	J	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:49	HJS
Barium	**0.050**		mg/L	0.004	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:49	HJS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:49	HJS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:49	HJS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:49	HJS
Mercury	ND	U	mg/L	0.0005	0.0002	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:49	HJS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:49	HJS
Silver	ND	U	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:49	HJS

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
ADMI Color at original pH	**3**		ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
ADMI Color at pH = 7.6	ND	U	ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
Flashpoint - Ignitability	No Flash Below 200°F		°F	1.0	1.0	SW846-1010	09/23/2025 07:50	09/23/2025 07:50	CLL
Odor	ND	U	T.O.N.	1		2150 B-2011	09/19/2025 14:36	09/19/2025 14:36	CLL
pH (Lab)	**8.15**	H3	Std. Units	0.10	0.10	SM 4500-H+ B-2011	09/23/2025 10:42	09/23/2025 15:04	AED

Conventional Chemistry Analysis

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Solids	**0.0326**		%	0.00025	0.00025	2540 B/G-2015	09/22/2025 16:29	09/22/2025 16:29	HAG

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ANALYTICAL RESULTS

Lab Sample ID: **5091730-04**
Description: **Sample 4**

Sample Collection Date Time: 09/19/2025 10:35
Sample Received Date Time: 09/19/2025 12:27

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	**0.0004**	J	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:54	HJS
Barium	**0.007**		mg/L	0.004	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:54	HJS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:54	HJS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:54	HJS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:54	HJS
Mercury	ND	U	mg/L	0.0005	0.0002	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:54	HJS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:54	HJS
Silver	ND	U	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:54	HJS

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
ADMI Color at original pH	**3**		ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
ADMI Color at pH = 7.6	ND	U	ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
Flashpoint - Ignitability	No Flash Below 200°F		°F	1.0	1.0	SW846-1010	09/23/2025 07:50	09/23/2025 07:50	CLL
Odor	ND	U	T.O.N.	1		2150 B-2011	09/19/2025 14:50	09/19/2025 14:50	CLL
pH (Lab)	**8.20**	H3	Std. Units	0.10	0.10	SM 4500-H+ B-2011	09/23/2025 10:42	09/23/2025 15:04	AED

Conventional Chemistry Analysis

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Solids	**0.0372**		%	0.00025	0.00025	2540 B/G-2015	09/22/2025 16:29	09/22/2025 16:29	HAG

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ANALYTICAL RESULTS

Lab Sample ID: **5091730-05**
Description: **Sample 5**

Sample Collection Date Time: 09/19/2025 10:40
Sample Received Date Time: 09/19/2025 12:27

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	**0.0008**	J	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:58	HJS
Barium	**0.006**		mg/L	0.004	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:58	HJS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:58	HJS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:58	HJS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:58	HJS
Mercury	ND	U	mg/L	0.0005	0.0002	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:58	HJS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:58	HJS
Silver	ND	U	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 15:58	HJS

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
ADMI Color at original pH	**3**		ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
ADMI Color at pH = 7.6	ND	U	ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
Flashpoint - Ignitability	No Flash Below 200°F		°F	1.0	1.0	SW846-1010	09/24/2025 07:47	09/24/2025 07:47	CLL
Odor	ND	U	T.O.N.	1		2150 B-2011	09/19/2025 15:05	09/19/2025 15:05	CLL
pH (Lab)	**8.45**	H3	Std. Units	0.10	0.10	SM 4500-H+ B-2011	09/23/2025 10:42	09/23/2025 15:04	AED

Conventional Chemistry Analysis

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Solids	**0.0382**		%	0.00025	0.00025	2540 B/G-2015	09/22/2025 16:29	09/22/2025 16:29	HAG

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ANALYTICAL RESULTS

Lab Sample ID: **5091730-06**
Description: **Sample 6**

Sample Collection Date Time: 09/19/2025 10:45
Sample Received Date Time: 09/19/2025 12:27

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Arsenic	**0.0008**	J	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 16:15	HJS
Barium	**0.027**		mg/L	0.004	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 16:15	HJS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/22/2025 08:36	09/24/2025 16:15	HJS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/22/2025 08:36	09/24/2025 16:15	HJS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/22/2025 08:36	09/24/2025 16:15	HJS
Mercury	ND	U	mg/L	0.0005	0.0002	SW846-6020 A	09/22/2025 08:36	09/24/2025 16:15	HJS
Selenium	**0.001**	J	mg/L	0.003	0.001	SW846-6020 A	09/22/2025 08:36	09/24/2025 16:15	HJS
Silver	ND	U	mg/L	0.0010	0.0004	SW846-6020 A	09/22/2025 08:36	09/24/2025 16:15	HJS

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
ADMI Color at original pH	**4**		ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
ADMI Color at pH = 7.6	**3**		ADMI	1	1	2120 E-1997	09/19/2025 15:43	09/19/2025 15:43	CLL
Flashpoint - Ignitability	No Flash Below 200°F		°F	1.0	1.0	SW846-1010	09/24/2025 07:47	09/24/2025 07:47	CLL
Odor	ND	U	T.O.N.	1		2150 B-2011	09/19/2025 15:18	09/19/2025 15:18	CLL
pH (Lab)	**8.28**	H3	Std. Units	0.10	0.10	SM 4500-H+ B-2011	09/23/2025 10:42	09/23/2025 15:04	AED

Conventional Chemistry Analysis

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Solids	**0.0322**		%	0.00025	0.00025	2540 B/G-2015	09/22/2025 16:29	09/22/2025 16:29	HAG

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Notes for work order 5091730

- Samples collected by PACE personnel are done so in accordance with procedures set forth in PACE field services SOPs .
- Results contained in this report are only representative of the samples received.
- PACE does not provide interpretation of these results unless otherwise stated .
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Qualifiers

D2	Sample required dilution due to matrix interference.
F-01	No Flash Below 200°F
H3	Sample received and analyzed past holding time.
J	Estimated value.
T15	Sample receipt temperature outside 0 - 6°C; sample collected on same day as received; sample received on ice.
U	Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).

Standard Qualifiers/Acronyms

MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
>	Greater than
<	Less than

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2100 - EPA 200.2										
Blank (BEI2100-BLK1)										
Prepared: 9/22/2025 8:36, Analyzed: 9/24/2025 15:24										
Mercury	ND	0.0005	mg/L							U
Arsenic	ND	0.0010	mg/L							U
Barium	ND	0.004	mg/L							U
Cadmium	ND	0.0010	mg/L							U
Chromium	ND	0.0020	mg/L							U
Lead	ND	0.002	mg/L							U
Selenium	ND	0.003	mg/L							U
Silver	ND	0.0010	mg/L							U
LCS (BEI2100-BS1)										
Prepared: 9/22/2025 8:36, Analyzed: 9/24/2025 15:26										
Mercury	0.0023	0.0005	mg/L	0.00250		92.7	85-115			
Arsenic	0.0630	0.0010	mg/L	0.0625		101	85-115			
Barium	0.064	0.004	mg/L	0.0625		102	85-115			
Cadmium	0.0601	0.0010	mg/L	0.0625		96.2	85-115			
Chromium	0.0605	0.0020	mg/L	0.0625		96.8	85-115			
Lead	0.057	0.002	mg/L	0.0625		91.3	85-115			
Selenium	0.063	0.003	mg/L	0.0625		101	85-115			
Silver	0.0598	0.0010	mg/L	0.0625		95.7	85-115			
Matrix Spike (BEI2100-MS1) **Source: 5091730-01**										
Prepared: 9/22/2025 8:36, Analyzed: 9/24/2025 16:22										
Mercury	0.0023	0.0050	mg/L	0.00250	ND	91.6	80-120			D2, J
Arsenic	0.0639	0.0100	mg/L	0.0625	ND	102	80-120			D2
Barium	0.115	0.040	mg/L	0.0625	0.055	95.6	80-120			D2
Cadmium	0.0591	0.0100	mg/L	0.0625	ND	94.5	80-120			D2
Chromium	0.0598	0.0200	mg/L	0.0625	ND	95.8	80-120			D2
Lead	0.057	0.020	mg/L	0.0625	ND	91.1	80-120			D2
Selenium	0.062	0.030	mg/L	0.0625	ND	98.6	80-120			D2
Silver	0.0592	0.0100	mg/L	0.0625	ND	94.8	80-120			D2

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2100 - EPA 200.2										
Matrix Spike Dup (BEI2100-MSD1) **Source: 5091730-01**										
Prepared: 9/22/2025 8:36, Analyzed: 9/24/2025 16:24										
Mercury	0.0023	0.0050	mg/L	0.00250	ND	91.7	80-120	0.0744	20	D2, J
Arsenic	0.0630	0.0100	mg/L	0.0625	ND	101	80-120	1.37	20	D2
Barium	0.115	0.040	mg/L	0.0625	0.055	96.1	80-120	0.273	20	D2
Cadmium	0.0589	0.0100	mg/L	0.0625	ND	94.3	80-120	0.232	20	D2
Chromium	0.0589	0.0200	mg/L	0.0625	ND	94.3	80-120	1.58	20	D2
Lead	0.057	0.020	mg/L	0.0625	ND	91.4	80-120	0.334	20	D2
Selenium	0.061	0.030	mg/L	0.0625	ND	98.1	80-120	0.587	20	D2
Silver	0.0588	0.0100	mg/L	0.0625	ND	94.0	80-120	0.771	20	D2
Post Spike (BEI2100-PS1) **Source: 5091730-01**										
Prepared: 9/22/2025 8:36, Analyzed: 9/24/2025 16:26										
Mercury	0.0024	0.0050	mg/L	0.00250	ND	94.0	75-125			D2, J
Arsenic	0.0641	0.0100	mg/L	0.0625	ND	103	75-125			D2
Barium	0.115	0.040	mg/L	0.0625	0.055	95.6	75-125			D2
Cadmium	0.0592	0.0100	mg/L	0.0625	ND	94.8	75-125			D2
Chromium	0.0604	0.0200	mg/L	0.0625	ND	96.7	75-125			D2
Lead	0.058	0.020	mg/L	0.0625	ND	93.5	75-115			D2
Selenium	0.062	0.030	mg/L	0.0625	ND	99.3	75-125			D2
Silver	0.0593	0.0100	mg/L	0.0625	ND	94.8	75-125			D2

Pace Analytical Services, LLC
P.O. Box 907
Madisonville, KY 42431
270.821.7375
www.pacelabs.com

Conventional Chemistry Analyses Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2067 - Default Prep Wet Chem										
Blank (BEI2067-BLK1)										
Prepared: 9/19/2025 14:07, Analyzed: 9/19/2025 14:07										
Odor	ND	1	T.O.N.							U
Blank (BEI2067-BLK2)										
Prepared: 9/19/2025 14:07, Analyzed: 9/19/2025 14:07										
Odor	ND	1	T.O.N.							U
Blank (BEI2067-BLK3)										
Prepared: 9/19/2025 14:25, Analyzed: 9/19/2025 14:25										
Odor	ND	1	T.O.N.							U
Blank (BEI2067-BLK4)										
Prepared: 9/19/2025 14:25, Analyzed: 9/19/2025 14:25										
Odor	ND	1	T.O.N.							U
Blank (BEI2067-BLK5)										
Prepared: 9/19/2025 14:36, Analyzed: 9/19/2025 14:36										
Odor	ND	1	T.O.N.							U
Blank (BEI2067-BLK6)										
Prepared: 9/19/2025 14:36, Analyzed: 9/19/2025 14:36										
Odor	ND	1	T.O.N.							U
Batch BEI2068 - Default Prep Wet Chem										
Blank (BEI2068-BLK1)										
Prepared: 9/19/2025 14:50, Analyzed: 9/19/2025 14:50										
Odor	ND	1	T.O.N.							U
Blank (BEI2068-BLK2)										
Prepared: 9/19/2025 14:50, Analyzed: 9/19/2025 14:50										
Odor	ND	1	T.O.N.							U
Blank (BEI2068-BLK3)										
Prepared: 9/19/2025 15:05, Analyzed: 9/19/2025 15:05										
Odor	ND	1	T.O.N.							U

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Conventional Chemistry Analyses Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2068 - Default Prep Wet Chem										
Blank (BEI2068-BLK4)										
Prepared: 9/19/2025 15:05, Analyzed: 9/19/2025 15:05										
Odor	ND	1	T.O.N.							U
Blank (BEI2068-BLK5)										
Prepared: 9/19/2025 15:18, Analyzed: 9/19/2025 15:18										
Odor	ND	1	T.O.N.							U
Blank (BEI2068-BLK6)										
Prepared: 9/19/2025 15:18, Analyzed: 9/19/2025 15:18										
Odor	ND	1	T.O.N.							U
Batch BEI2072 - Default Prep Micro										
LCS (BEI2072-BS1)										
Prepared: 9/23/2025 10:42, Analyzed: 9/23/2025 15:04										
pH (Lab)	4.93		Std. Units	5.00		98.6	98.8-101.2			
LCS (BEI2072-BS2)										
Prepared: 9/23/2025 10:42, Analyzed: 9/23/2025 15:04										
pH (Lab)	4.97		Std. Units	5.00		99.4	98.8-101.2			
Duplicate (BEI2072-DUP1) **Source: 5094737-01**										
Prepared: 9/23/2025 10:42, Analyzed: 9/23/2025 15:04										
pH (Lab)	7.40	0.10	Std. Units		7.43			0.405	10	H3
Duplicate (BEI2072-DUP2) **Source: 5094785-01**										
Prepared: 9/23/2025 10:42, Analyzed: 9/23/2025 15:04										
pH (Lab)	7.73	0.10	Std. Units		7.68			0.649	10	H3
Batch BEI2074 - Default Prep Wet Chem										
Blank (BEI2074-BLK1)										
Prepared: 9/19/2025 15:43, Analyzed: 9/19/2025 15:43										
ADMI Color at original pH	ND	1	ADMI							U
ADMI Color at pH = 7.6	ND	1	ADMI							U

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Conventional Chemistry Analyses Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2074 - Default Prep Wet Chem										
LCS (BEI2074-BS1)										
Prepared: 9/19/2025 15:43, Analyzed: 9/19/2025 15:43										
ADMI Color at original pH	72	1	ADMI	75.0		95.6	80-120			
ADMI Color at pH = 7.6	82	1	ADMI	75.0		109	80-120			
Duplicate (BEI2074-DUP1) **Source: 5091730-06**										
Prepared: 9/19/2025 15:43, Analyzed: 9/19/2025 15:43										
ADMI Color at original pH	4	1	ADMI		4			0.00	20	
ADMI Color at pH = 7.6	3	1	ADMI		3			0.00	20	
Batch BEI2277 - Default Prep Wet Chem										
LCS (BEI2277-BS1)										
Prepared: 9/23/2025 7:50, Analyzed: 9/23/2025 7:50										
Flashpoint - Ignitability	80.0		°F	77.0		104	0-200			
LCS (BEI2277-BS2)										
Prepared: 9/23/2025 7:50, Analyzed: 9/23/2025 7:50										
Flashpoint - Ignitability	105		°F	102		103	0-200			
Duplicate (BEI2277-DUP1) **Source: 5091730-04**										
Prepared: 9/23/2025 7:50, Analyzed: 9/23/2025 7:50										
Flashpoint - Ignitability	ash Below 200°F	1.0	°F		ash Below 2			0.00	10	
Batch BEI2458 - Default Prep Wet Chem										
LCS (BEI2458-BS1)										
Prepared: 9/24/2025 7:47, Analyzed: 9/24/2025 7:47										
Flashpoint - Ignitability	79.0		°F	77.0		103	0-200			
LCS (BEI2458-BS2)										
Prepared: 9/24/2025 7:47, Analyzed: 9/24/2025 7:47										
Flashpoint - Ignitability	103		°F	102		101	0-200			

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Conventional Chemistry Analyses Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2458 - Default Prep Wet Chem										
Duplicate (BEI2458-DUP1)	**Source: 5094286-01**									
Prepared: 9/24/2025 7:47, Analyzed: 9/24/2025 7:47										
Flashpoint - Ignitability	ash Below 200°F	1.0	°F		200			0.00	10	

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Conventional Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2244 - Default Prep Wet Chem										
Blank (BEI2244-BLK1)										
Prepared: 9/22/2025 16:29, Analyzed: 9/22/2025 16:29										
Total Solids	ND	0.00025	%							U
LCS (BEI2244-BS1)										
Prepared: 9/22/2025 16:29, Analyzed: 9/22/2025 16:29										
Total Solids	0.00960	0.00025	%	0.0100		96.0	80-120			
Duplicate (BEI2244-DUP1)	**Source: 5094479-02**									
Prepared: 9/22/2025 16:29, Analyzed: 9/22/2025 16:29										
Total Solids	3.56	0.00417	%		3.52			1.13	10	

Certified Analyses included in this Report

Analyte	Certifications
2150 B-2011 in Water	
Odor	KY Drinking Water Mdv (00030)
SM 4500-H+ B-2011 in Water	
pH (Lab)	KY Drinking Water Mdv (00030) TN Drinking Water (02819)
SW846-1010 in Water	
Flashpoint - Ignitability	VA NELAC MDV (460210)

Sample Acceptance Checklist for Work Order 5091730

Shipped By: Client

Temperature: 28.10° Celcius

Condition	
Check if Custody Seals are Present/Intact	☐
Check if Custody Signatures are Present	☑
Check if Collector Signature Present	☑
Check if bottles are intact	☑
Check if bottles are correct	☑
Check if bottles have sufficient volume	☑
Check if samples received on ice	☑
Check if VOA headspace is acceptable	☐
Check if samples received in holding time.	☑
Check if samples are preserved properly	☑

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/01/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson IDW Project - Liquids

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State:

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ___ No X

Samples Chlorinated? Yes ___ No X

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5091730 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5091730-01 A	9/19/25	1020	Plastic 1L	1	Sample 1	g / C	Total Solids pH (Lab) Color ADMI
5091730-01 B			AG 1L	1	Sample 1	g / C	Odor Flashpoint
5091730-01 C			Plastic 500mL pH<2 w/HNO3	1	Sample 1	g / C	Silver Tot 6020 Selenium Tot 6020 Mercury Tot 6020 Lead Tot 6020 Chromium Tot 6020 Cadmium Tot 6020 Barium Tot 6020 Arsenic Tot 6020
			Preservation Check: pH : ✓				
5091730-02 A	9/19/25	1025	Plastic 1L	1	Sample 2	g / C	Total Solids pH (Lab) Color ADMI
5091730-02 B			AG 1L	1	Sample 2	g / C	Odor Flashpoint
5091730-02 C			Plastic 500mL pH<2 w/HNO3	1	Sample 2	g / C	Silver Tot 6020 Selenium Tot 6020 Mercury Tot 6020 Lead Tot 6020 Chromium Tot 6020 Cadmium Tot 6020 Barium Tot 6020 Arsenic Tot 6020
			Preservation Check: pH : ✓				
5091730-03 A	9/19/25	1036	Plastic 1L	1	Sample 3	g / C	Total Solids pH (Lab) Color ADMI

Preservation Check Performed by: KED pH Paper Lot #: 283724

Field data collected by: _____ Date (mm/dd/yy) _____ Time (24 hr) _____

pH _____ Cond (umho) _____ Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) _____ or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		09-19-25	1227

☐ PACE- Check here if trip charge applied to associated COC

Printed: 8/25/2025 9:10:41AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/01/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson IDW Project - Liquids

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: _____

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ___ No ___

Samples Chlorinated? Yes ___ No ___

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5091730 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5091730-03 B	9/19/25	1050	AG 1L	1	Sample 3	g	Odor Flashpoint
5091730-03 C	"	"	Plastic 500mL pH<2 w/HNO3	1	Sample 3	g	Silver Tot 6020 Selenium Tot 6020 Mercury Tot 6020 Lead Tot 6020 Chromium Tot 6020 Cadmium Tot 6020 Barium Tot 6020 Arsenic Tot 6020
			Preservation Check: pH : ✓				
5091730-04 A	9/19/25	1035	Plastic 1L	1	Sample 4	g	Total Solids pH (Lab) Color ADMI
5091730-04 B	"	"	AG 1L	1	Sample 4	g	Odor Flashpoint
5091730-04 C	"	"	Plastic 500mL pH<2 w/HNO3	1	Sample 4	g	Silver Tot 6020 Selenium Tot 6020 Mercury Tot 6020 Lead Tot 6020 Chromium Tot 6020 Cadmium Tot 6020 Barium Tot 6020 Arsenic Tot 6020
			Preservation Check: pH : ✓				
5091730-05 A	9/19/25	1040	Plastic 1L	1	Sample 5	g	Total Solids pH (Lab) Color ADMI
5091730-05 B	"	"	AG 1L	1	Sample 5	g	Odor Flashpoint

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: _____ Date (mm/dd/yy) _____ Time (24 hr) _____

pH _____ Cond (umho) _____ Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) _____ or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		09-19-25	1227

☐ PACE- Check here if trip charge applied to associated COC

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/01/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson IDW Project - Liquids

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: _____

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ___ No ___

Samples Chlorinated? Yes ___ No ___

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5091730 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5091730-05 C	9/19/25	1040	Plastic 500mL pH<2 w/HNO3	1	Sample 5	g / c	Silver Tot 6020 Selenium Tot 6020 Mercury Tot 6020 Lead Tot 6020 Chromium Tot 6020 Cadmium Tot 6020 Barium Tot 6020 Arsenic Tot 6020
			Preservation Check: pH : ✓				
5091730-06 A	9/19/25	1045	Plastic 1L	1	Sample 6	g /(c)	Total Solids pH (Lab) Color ADMI
5091730-06 B	"	"	AG 1L	1	Sample 6	g /(c)	Odor Flashpoint
5091730-06 C	"	"	Plastic 500mL pH<2 w/HNO3	1	Sample 6	g /(c)	Silver Tot 6020 Selenium Tot 6020 Mercury Tot 6020 Lead Tot 6020 Chromium Tot 6020 Cadmium Tot 6020 Barium Tot 6020 Arsenic Tot 6020
			Preservation Check: pH : ✓				
5091730-07 A			Plastic 1L	1	Sample 7	g / c	Total Solids pH (Lab) Color ADMI
5091730-07 B			AG 1L	1	Sample 7	g / c	Odor Flashpoint

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: _____ Date (mm/dd/yy) _____ Time (24 hr) _____

pH _____ Cond (umho) _____ Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) _____ or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		09-19-25	1227

☐ **PACE- Check here if trip charge applied to associated COC**

Printed: 8/25/2025 9:10:41AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/01/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson IDW Project - Liquids

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: _____

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ___ No ___

Samples Chlorinated? Yes ___ No ___

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5091730 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5091730-07 C			Plastic 500mL pH<2 w/HNO3	1	Sample 7	g / c	Silver Tot 6020 Selenium Tot 6020 Mercury Tot 6020 Lead Tot 6020 Chromium Tot 6020 Cadmium Tot 6020 Barium Tot 6020 Arsenic Tot 6020

NO 07 Sample

Preservation Check: pH : ✓

Thermometer Serial Number
230753815
240381205
Temperature 8.1 °C
on ice

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: _____ Date (mm/dd/yy) _____ Time (24 hr) _____

pH _____ Cond (umho) _____ Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) _____ or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		05-19-25	1227

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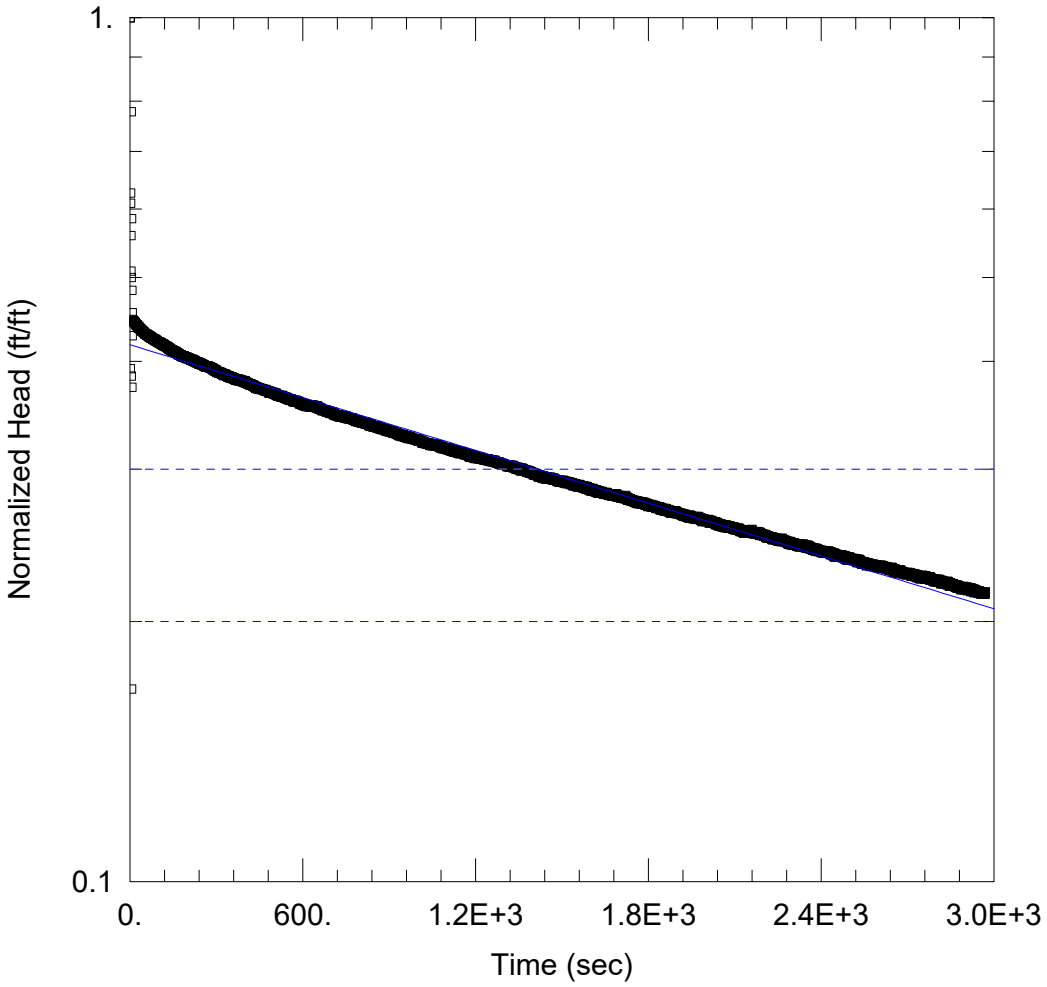
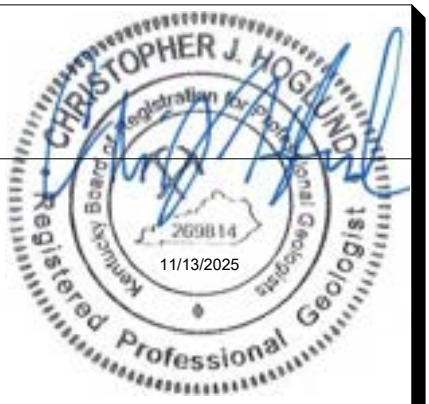
Appendix N - AQTESOLV® In-Situ Hydraulic Conductivity Test Outputs



MW-105B FALLING HEAD 01

Data Set: Z:\...\MW-105b Falling Head 01.aqt
Date: 10/06/25 Time: 16:43:12



PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-105b
Test Well: MW-105b
Test Date: 8/6/25

AQUIFER DATA

Saturated Thickness: 28.51 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-105b)

Initial Displacement: 1.94 ft
Total Well Penetration Depth: 13.66 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 28.51 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 4.778E-6 cm/sec
y0 = 0.8111 ft

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-105b Falling Head 01
Date: 10/06/25
Time: 16:44:19

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-105b
Test Date: 8/6/25
Test Well: MW-105b

AQUIFER DATA

Saturated Thickness: 28.51 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-105b

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.94 ft
Static Water Column Height: 28.51 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 13.66 ft

No. of Observations: 5940

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.5	1.937	1486.5	0.565
2.	0.761	1487.	0.564
2.5	1.183	1487.5	0.565
3.	1.215	1488.	0.563
3.5	1.085	1488.5	0.565
4.	0.987	1489.	0.564
4.5	0.746	1489.5	0.564
5.	1.509	1490.	0.563
5.5	0.97	1490.5	0.563
6.	0.324	1491.	0.562
6.5	1.135	1491.5	0.564
7.	0.724	1492.	0.563
7.5	0.938	1492.5	0.565
8.	0.831	1493.	0.564
8.5	0.883	1493.5	0.565
9.	0.86	1494.	0.563
9.5	0.868	1494.5	0.564
10.	0.865	1495.	0.563
10.5	0.865	1495.5	0.564
11.	0.866	1496.	0.563
11.5	0.865	1496.5	0.564
12.	0.865	1497.	0.563
12.5	0.864	1497.5	0.563
13.	0.865	1498.	0.563
13.5	0.864	1498.5	0.565
14.	0.864	1499.	0.563
14.5	0.862	1499.5	0.565
15.	0.862	1500.	0.563
15.5	0.861	1500.5	0.564
16.	0.861	1501.	0.563
16.5	0.862	1501.5	0.564

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
17.	0.862	1502.	0.563
17.5	0.86	1502.5	0.564
18.	0.861	1503.	0.564
18.5	0.859	1503.5	0.563
19.	0.859	1504.	0.565
19.5	0.859	1504.5	0.564
20.	0.859	1505.	0.562
20.5	0.857	1505.5	0.564
21.	0.858	1506.	0.561
21.5	0.857	1506.5	0.564
22.	0.855	1507.	0.562
22.5	0.856	1507.5	0.565
23.	0.854	1508.	0.562
23.5	0.856	1508.5	0.563
24.	0.854	1509.	0.562
24.5	0.855	1509.5	0.563
25.	0.855	1510.	0.561
25.51	0.853	1510.5	0.563
26.	0.853	1511.	0.561
26.5	0.852	1511.5	0.563
27.	0.851	1512.	0.562
27.5	0.852	1512.5	0.562
28.	0.85	1513.	0.56
28.5	0.852	1513.5	0.563
29.	0.848	1514.	0.561
29.5	0.852	1514.5	0.564
30.	0.85	1515.	0.561
30.5	0.851	1515.5	0.563
31.	0.848	1516.	0.561
31.5	0.851	1516.5	0.563
32.	0.848	1517.	0.562
32.5	0.85	1517.5	0.562
33.	0.847	1518.	0.56
33.5	0.848	1518.5	0.562
34.	0.847	1519.	0.561
34.5	0.847	1519.5	0.562
35.	0.846	1520.	0.561
35.5	0.848	1520.5	0.562
36.	0.846	1521.	0.561
36.5	0.847	1521.5	0.562
37.	0.845	1522.	0.561
37.5	0.845	1522.5	0.562
38.	0.845	1523.	0.56
38.5	0.845	1523.5	0.562
39.	0.845	1524.	0.561
39.5	0.843	1524.5	0.562
40.	0.845	1525.	0.562
40.5	0.843	1525.5	0.562
41.	0.844	1526.	0.56
41.5	0.841	1526.5	0.56
42.	0.843	1527.	0.56
42.5	0.842	1527.5	0.562
43.	0.842	1528.	0.56
43.5	0.842	1528.5	0.561
44.	0.841	1529.	0.56
44.5	0.84	1529.5	0.561
45.	0.842	1530.	0.559
45.5	0.839	1530.5	0.562
46.	0.841	1531.	0.56
46.5	0.839	1531.5	0.561
47.	0.84	1532.	0.559
47.5	0.839	1532.5	0.561
48.	0.839	1533.	0.561
48.5	0.838	1533.5	0.561
49.	0.839	1534.	0.559
49.5	0.837	1534.5	0.561
50.	0.838	1535.	0.559

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
50.5	0.836	1535.5	0.561
51.	0.837	1536.	0.559
51.5	0.835	1536.5	0.561
52.	0.836	1537.	0.559
52.5	0.835	1537.5	0.561
53.	0.837	1538.	0.557
53.5	0.835	1538.5	0.56
54.	0.836	1539.	0.558
54.5	0.834	1539.5	0.56
55.	0.835	1540.	0.559
55.5	0.834	1540.5	0.56
56.	0.834	1541.	0.559
56.5	0.834	1541.5	0.56
57.	0.835	1542.	0.557
57.5	0.833	1542.5	0.559
58.	0.834	1543.	0.558
58.5	0.832	1543.5	0.559
59.	0.835	1544.	0.559
59.5	0.833	1544.5	0.559
60.	0.833	1545.	0.558
60.5	0.832	1545.5	0.558
61.	0.832	1546.	0.557
61.5	0.831	1546.5	0.558
62.	0.832	1547.	0.559
62.5	0.831	1547.5	0.56
63.	0.832	1548.	0.557
63.5	0.831	1548.5	0.56
64.	0.832	1549.	0.557
64.5	0.831	1549.5	0.558
65.	0.832	1550.	0.556
65.5	0.83	1550.5	0.558
66.	0.83	1551.	0.556
66.5	0.828	1551.5	0.559
67.	0.831	1552.	0.557
67.5	0.829	1552.5	0.558
68.	0.83	1553.	0.557
68.5	0.828	1553.5	0.557
69.	0.829	1554.	0.555
69.5	0.829	1554.5	0.557
70.	0.83	1555.	0.557
70.5	0.829	1555.5	0.557
71.	0.828	1556.	0.556
71.5	0.826	1556.5	0.559
72.	0.828	1557.	0.557
72.5	0.826	1557.5	0.557
73.	0.829	1558.	0.556
73.5	0.825	1558.5	0.558
74.	0.828	1559.	0.556
74.5	0.826	1559.5	0.557
75.	0.827	1560.	0.555
75.5	0.826	1560.5	0.557
76.	0.826	1561.	0.558
76.5	0.825	1561.5	0.559
77.	0.827	1562.	0.556
77.5	0.825	1562.5	0.559
78.	0.826	1563.	0.556
78.5	0.824	1563.5	0.557
79.	0.826	1564.	0.556
79.5	0.824	1564.5	0.558
80.	0.824	1565.	0.556
80.5	0.822	1565.5	0.557
81.	0.824	1566.	0.555
81.5	0.823	1566.5	0.556
82.	0.825	1567.	0.556
82.5	0.823	1567.5	0.557
83.	0.822	1568.	0.556
83.5	0.822	1568.5	0.556

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
84.	0.824	1569.	0.555
84.5	0.822	1569.5	0.557
85.	0.823	1570.	0.555
85.5	0.822	1570.5	0.556
86.	0.822	1571.	0.555
86.5	0.82	1571.5	0.557
87.	0.823	1572.	0.556
87.5	0.821	1572.5	0.556
88.	0.821	1573.	0.556
88.5	0.82	1573.5	0.557
89.	0.823	1574.	0.553
89.5	0.82	1574.5	0.556
90.	0.822	1575.	0.556
90.5	0.819	1575.5	0.556
91.	0.82	1576.	0.555
91.5	0.82	1576.5	0.556
92.	0.82	1577.	0.555
92.5	0.819	1577.5	0.555
93.	0.819	1578.	0.554
93.5	0.819	1578.5	0.556
94.	0.82	1579.	0.555
94.5	0.817	1579.5	0.556
95.	0.82	1580.	0.555
95.5	0.818	1580.5	0.556
96.	0.819	1581.	0.554
96.5	0.817	1581.5	0.556
97.	0.818	1582.	0.552
97.5	0.817	1582.5	0.555
98.	0.817	1583.	0.553
98.5	0.818	1583.5	0.555
99.	0.817	1584.	0.553
99.5	0.815	1584.5	0.556
100.	0.817	1585.	0.553
100.5	0.815	1585.5	0.555
101.	0.817	1586.	0.553
101.5	0.817	1586.5	0.554
102.	0.816	1587.	0.552
102.5	0.816	1587.5	0.554
103.	0.817	1588.	0.552
103.5	0.815	1588.5	0.556
104.	0.817	1589.	0.552
104.5	0.815	1589.5	0.555
105.	0.817	1590.	0.552
105.5	0.814	1590.5	0.553
106.	0.815	1591.	0.551
106.5	0.814	1591.5	0.554
107.	0.815	1592.	0.552
107.5	0.813	1592.5	0.553
108.	0.816	1593.	0.551
108.5	0.812	1593.5	0.554
109.	0.814	1594.	0.552
109.5	0.813	1594.5	0.553
110.	0.815	1595.	0.552
110.5	0.812	1595.5	0.553
111.	0.813	1596.	0.55
111.5	0.813	1596.5	0.553
112.	0.813	1597.	0.551
112.5	0.812	1597.5	0.554
113.	0.812	1598.	0.551
113.5	0.81	1598.5	0.553
114.	0.812	1599.	0.55
114.5	0.811	1599.5	0.552
115.	0.811	1600.	0.552
115.5	0.811	1600.5	0.551
116.	0.813	1601.	0.55
116.5	0.81	1601.5	0.552
117.	0.812	1602.	0.55

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
117.5	0.809	1602.5	0.55
118.	0.812	1603.	0.55
118.5	0.81	1603.5	0.55
119.	0.81	1604.	0.55
119.5	0.808	1604.5	0.551
120.	0.81	1605.	0.55
120.5	0.809	1605.5	0.551
121.	0.811	1606.	0.55
121.5	0.809	1606.5	0.552
122.	0.81	1607.	0.55
122.5	0.808	1608.5	0.551
123.	0.81	1608.6	0.551
123.5	0.809	1608.8	0.553
124.	0.809	1609.	0.551
124.5	0.808	1609.5	0.551
125.	0.808	1610.	0.551
125.5	0.807	1610.5	0.55
126.	0.807	1611.	0.552
126.5	0.806	1611.5	0.549
127.	0.808	1612.	0.55
127.5	0.806	1612.5	0.55
128.	0.808	1613.	0.55
128.5	0.806	1613.5	0.549
129.	0.806	1614.	0.551
129.5	0.805	1614.5	0.549
130.	0.808	1615.	0.55
130.5	0.804	1615.5	0.548
131.	0.807	1616.	0.55
131.5	0.805	1616.5	0.548
132.	0.807	1617.	0.55
132.5	0.804	1617.5	0.549
133.	0.806	1618.	0.55
133.5	0.803	1618.5	0.549
134.	0.804	1619.	0.55
134.5	0.803	1619.5	0.549
135.	0.804	1620.	0.55
135.5	0.802	1620.5	0.547
136.	0.805	1621.	0.551
136.5	0.801	1621.5	0.547
137.	0.804	1622.	0.549
137.5	0.802	1622.5	0.547
138.	0.804	1623.	0.549
138.5	0.802	1623.5	0.547
139.	0.803	1624.	0.55
139.5	0.801	1624.5	0.548
140.	0.802	1625.	0.548
140.5	0.801	1625.5	0.548
141.	0.802	1626.	0.548
141.5	0.799	1626.5	0.546
142.	0.802	1627.	0.55
142.5	0.801	1627.5	0.547
143.	0.801	1628.	0.549
143.5	0.799	1628.5	0.547
144.	0.801	1629.	0.55
144.5	0.8	1629.5	0.547
145.	0.801	1630.	0.549
145.5	0.798	1630.5	0.546
146.	0.8	1631.	0.548
146.5	0.797	1631.5	0.547
147.	0.798	1632.	0.548
147.5	0.798	1632.5	0.547
148.	0.8	1633.	0.548
148.5	0.797	1633.5	0.547
149.	0.799	1634.	0.548
149.5	0.798	1634.5	0.547
150.	0.799	1635.	0.547
150.5	0.797	1635.5	0.547

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
151.	0.799	1636.	0.548
151.5	0.797	1636.5	0.546
152.	0.798	1637.	0.548
152.5	0.797	1637.5	0.547
153.	0.796	1638.	0.548
153.5	0.798	1638.5	0.547
154.	0.797	1639.	0.549
154.5	0.797	1639.5	0.547
155.	0.796	1640.	0.547
155.5	0.796	1640.5	0.546
156.	0.797	1641.	0.548
156.5	0.795	1641.5	0.547
157.	0.795	1642.	0.547
157.5	0.796	1642.5	0.545
158.	0.797	1643.	0.547
158.5	0.796	1643.5	0.545
159.	0.794	1644.	0.547
159.5	0.795	1644.5	0.546
160.	0.797	1645.	0.545
160.5	0.795	1645.5	0.545
161.	0.796	1646.	0.546
161.5	0.794	1646.5	0.545
162.	0.795	1647.	0.546
162.5	0.795	1647.5	0.545
163.	0.793	1648.	0.547
163.5	0.794	1648.5	0.545
164.	0.794	1649.	0.546
164.5	0.793	1649.5	0.545
165.	0.793	1650.	0.546
165.5	0.791	1650.5	0.544
166.	0.794	1651.	0.546
166.5	0.792	1651.5	0.545
167.	0.793	1652.	0.547
167.5	0.79	1652.5	0.544
168.	0.793	1653.	0.546
168.5	0.79	1653.5	0.545
169.	0.792	1654.	0.545
169.5	0.79	1654.5	0.545
170.	0.791	1655.	0.547
170.5	0.789	1655.5	0.545
171.	0.791	1656.	0.547
171.5	0.79	1656.5	0.545
172.	0.79	1657.	0.547
172.5	0.79	1657.5	0.545
173.	0.791	1658.	0.546
173.5	0.789	1658.5	0.545
174.	0.79	1659.	0.546
174.5	0.788	1659.5	0.544
175.	0.79	1660.	0.545
175.5	0.788	1660.5	0.545
176.	0.79	1661.	0.545
176.5	0.787	1661.5	0.543
177.	0.79	1662.	0.544
177.5	0.788	1662.5	0.544
178.	0.789	1663.	0.545
178.5	0.787	1663.5	0.544
179.	0.788	1664.	0.544
179.5	0.789	1664.5	0.543
180.	0.788	1665.	0.544
180.5	0.787	1665.5	0.544
181.	0.787	1666.	0.544
181.5	0.785	1666.5	0.545
182.	0.787	1667.	0.545
182.5	0.785	1667.5	0.544
183.	0.787	1668.	0.545
183.5	0.786	1668.5	0.543
184.	0.787	1669.	0.544

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
184.5	0.786	1669.5	0.544
185.	0.786	1670.	0.544
185.5	0.785	1670.5	0.543
186.	0.786	1671.	0.545
186.5	0.786	1671.5	0.543
187.	0.786	1672.	0.545
187.5	0.785	1672.5	0.542
188.	0.787	1673.	0.545
188.5	0.784	1673.5	0.543
189.	0.787	1674.	0.545
189.5	0.785	1674.5	0.544
190.	0.786	1675.	0.545
190.5	0.784	1675.5	0.543
191.	0.786	1676.	0.545
191.5	0.785	1676.5	0.543
192.	0.785	1677.	0.544
192.5	0.783	1677.5	0.543
193.	0.785	1678.	0.543
193.5	0.783	1678.5	0.542
194.	0.785	1679.	0.545
194.5	0.784	1679.5	0.543
195.	0.785	1680.	0.545
195.5	0.782	1680.5	0.544
196.	0.785	1681.	0.544
196.5	0.784	1681.5	0.543
197.	0.784	1682.	0.543
197.5	0.784	1682.5	0.543
198.	0.785	1683.	0.545
198.5	0.782	1683.5	0.544
199.	0.783	1684.	0.544
199.5	0.782	1684.5	0.542
200.	0.784	1685.	0.544
200.5	0.782	1685.5	0.543
201.	0.782	1686.	0.543
201.5	0.782	1686.5	0.542
202.	0.783	1687.	0.543
202.5	0.782	1687.5	0.542
203.	0.782	1688.	0.543
203.5	0.781	1688.5	0.541
204.	0.782	1689.	0.544
204.5	0.781	1689.5	0.541
205.	0.783	1690.	0.544
205.5	0.781	1690.5	0.541
206.	0.781	1691.	0.545
206.5	0.781	1691.5	0.542
207.	0.781	1692.	0.542
207.5	0.782	1692.5	0.541
208.	0.782	1693.	0.543
208.5	0.78	1693.5	0.542
209.	0.781	1694.	0.543
209.5	0.779	1694.5	0.542
210.	0.78	1695.	0.542
210.5	0.779	1695.5	0.541
211.	0.781	1696.	0.542
211.5	0.778	1696.5	0.541
212.	0.779	1697.	0.543
212.5	0.779	1697.5	0.542
213.	0.781	1698.	0.542
213.5	0.779	1698.5	0.54
214.	0.78	1699.	0.541
214.5	0.778	1699.5	0.542
215.	0.78	1700.	0.542
215.5	0.778	1700.5	0.54
216.	0.78	1701.	0.542
216.5	0.779	1701.5	0.54
217.	0.78	1702.	0.542
217.5	0.777	1702.5	0.539

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
218.	0.778	1703.	0.543
218.5	0.777	1703.5	0.54
219.	0.779	1704.	0.542
219.5	0.777	1704.5	0.539
220.	0.78	1705.	0.541
220.5	0.777	1705.5	0.541
221.	0.779	1706.	0.542
221.5	0.776	1706.5	0.54
222.	0.777	1707.	0.541
222.5	0.776	1707.5	0.54
223.	0.777	1708.	0.541
223.5	0.777	1708.5	0.539
224.	0.778	1709.	0.541
224.5	0.777	1709.5	0.539
225.	0.778	1710.	0.541
225.5	0.775	1710.5	0.539
226.	0.778	1711.	0.541
226.5	0.775	1711.5	0.539
227.	0.776	1712.	0.541
227.5	0.774	1712.5	0.541
228.	0.776	1713.	0.541
228.5	0.775	1713.5	0.539
229.	0.775	1714.	0.54
229.5	0.773	1714.5	0.538
230.	0.775	1715.	0.541
230.5	0.774	1715.5	0.539
231.	0.776	1716.	0.542
231.5	0.773	1716.5	0.539
232.	0.774	1717.	0.539
232.5	0.774	1717.5	0.538
233.	0.774	1718.	0.54
233.5	0.772	1718.5	0.539
234.	0.775	1719.	0.539
234.5	0.773	1719.5	0.539
235.	0.775	1720.	0.539
235.5	0.774	1720.5	0.539
236.	0.775	1721.	0.541
236.5	0.772	1721.5	0.543
237.	0.773	1722.	0.538
237.5	0.772	1722.5	0.541
238.	0.773	1723.	0.54
238.5	0.772	1723.5	0.539
239.	0.771	1724.	0.538
239.5	0.771	1724.5	0.537
240.	0.772	1725.	0.538
240.5	0.772	1725.5	0.538
241.	0.774	1726.	0.539
241.5	0.772	1726.5	0.538
242.	0.773	1727.	0.538
242.5	0.771	1727.5	0.538
243.	0.772	1728.	0.537
243.5	0.772	1728.5	0.536
244.	0.772	1729.	0.54
244.5	0.771	1729.5	0.538
245.	0.772	1730.	0.536
245.5	0.771	1730.5	0.538
246.	0.772	1731.	0.536
246.5	0.771	1731.5	0.538
247.	0.771	1732.	0.537
247.5	0.769	1732.5	0.537
248.	0.772	1733.	0.536
248.5	0.77	1733.5	0.537
249.	0.77	1734.	0.537
249.5	0.77	1734.5	0.537
250.	0.77	1735.	0.537
250.5	0.769	1735.5	0.537
251.	0.77	1736.	0.536

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
251.5	0.769	1736.5	0.538
252.	0.771	1737.	0.535
252.5	0.77	1737.5	0.537
253.	0.769	1738.	0.536
253.5	0.769	1738.5	0.538
254.	0.77	1739.	0.537
254.5	0.768	1739.5	0.536
255.	0.769	1740.	0.535
255.5	0.767	1740.5	0.537
256.	0.768	1741.	0.535
256.5	0.767	1741.5	0.536
257.	0.769	1742.	0.535
257.5	0.768	1742.5	0.536
258.	0.769	1743.	0.536
258.5	0.767	1743.5	0.537
259.	0.768	1744.	0.535
259.5	0.766	1744.5	0.536
260.	0.767	1745.	0.535
260.5	0.766	1745.5	0.537
261.	0.767	1746.	0.534
261.5	0.764	1746.5	0.535
262.	0.767	1747.	0.534
262.5	0.765	1747.5	0.535
263.	0.766	1748.	0.534
263.5	0.765	1748.5	0.534
264.	0.767	1749.	0.534
264.5	0.765	1749.5	0.535
265.	0.765	1750.	0.534
265.5	0.764	1750.5	0.536
266.	0.766	1751.	0.534
266.5	0.765	1751.5	0.536
267.	0.765	1752.	0.533
267.5	0.765	1752.5	0.535
268.	0.766	1753.	0.534
268.5	0.764	1753.5	0.535
269.	0.765	1754.	0.534
269.5	0.764	1754.5	0.535
270.	0.764	1755.	0.534
270.5	0.764	1755.5	0.535
271.	0.765	1756.	0.533
271.5	0.764	1756.5	0.535
272.	0.767	1757.	0.532
272.5	0.764	1757.5	0.535
273.	0.765	1758.	0.533
273.5	0.765	1758.5	0.534
274.	0.766	1759.	0.533
274.5	0.764	1759.5	0.535
275.	0.765	1760.	0.533
275.5	0.763	1760.5	0.534
276.	0.765	1761.	0.534
276.5	0.763	1761.5	0.534
277.	0.764	1762.	0.531
277.5	0.763	1762.5	0.535
278.	0.765	1763.	0.532
278.5	0.764	1763.5	0.534
279.	0.764	1764.	0.532
279.5	0.763	1764.5	0.534
280.	0.764	1765.	0.533
280.5	0.763	1765.5	0.533
281.	0.763	1766.	0.533
281.5	0.763	1766.5	0.534
282.	0.764	1767.	0.532
282.5	0.762	1767.5	0.534
283.	0.763	1768.	0.533
283.5	0.763	1768.5	0.532
284.	0.763	1769.	0.532
284.5	0.762	1769.5	0.532

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
285.	0.763	1770.	0.531
285.5	0.76	1770.5	0.534
286.	0.762	1771.	0.532
286.5	0.759	1771.5	0.532
287.	0.762	1772.	0.532
287.5	0.76	1772.5	0.533
288.	0.762	1773.	0.532
288.5	0.759	1773.5	0.533
289.	0.761	1774.	0.531
289.5	0.759	1774.5	0.531
290.	0.759	1775.	0.531
290.5	0.758	1775.5	0.532
291.	0.759	1776.	0.532
291.5	0.758	1776.5	0.533
292.	0.759	1777.	0.531
292.5	0.759	1777.5	0.532
293.	0.759	1778.	0.532
293.5	0.757	1778.5	0.531
294.	0.759	1779.	0.531
294.5	0.759	1779.5	0.533
295.	0.76	1780.	0.531
295.5	0.756	1780.5	0.531
296.	0.758	1781.	0.532
296.5	0.758	1781.5	0.533
297.	0.757	1782.	0.532
297.5	0.757	1782.5	0.531
298.	0.757	1783.	0.53
298.5	0.757	1783.5	0.532
299.	0.759	1784.	0.531
299.5	0.755	1784.5	0.532
300.	0.757	1785.	0.53
300.5	0.756	1785.5	0.532
301.	0.756	1786.	0.53
301.5	0.753	1786.5	0.533
302.	0.756	1787.	0.531
302.5	0.754	1787.5	0.532
303.	0.756	1788.	0.529
303.5	0.755	1788.5	0.531
304.	0.755	1789.	0.529
304.5	0.755	1789.5	0.532
305.	0.755	1790.	0.529
305.5	0.754	1790.5	0.53
306.	0.755	1791.	0.53
306.5	0.754	1791.5	0.531
307.	0.754	1792.	0.529
307.5	0.753	1792.5	0.531
308.	0.755	1793.	0.529
308.5	0.752	1793.5	0.531
309.	0.755	1794.	0.529
309.5	0.752	1794.5	0.531
310.	0.754	1795.	0.529
310.5	0.753	1795.5	0.532
311.	0.754	1796.	0.529
311.5	0.752	1796.5	0.53
312.	0.754	1797.	0.528
312.5	0.752	1797.5	0.53
313.	0.753	1798.	0.527
313.5	0.751	1798.5	0.531
314.	0.752	1799.	0.529
314.5	0.752	1799.5	0.53
315.	0.754	1800.	0.528
315.5	0.751	1800.5	0.529
316.	0.753	1801.	0.53
316.5	0.751	1801.5	0.53
317.	0.753	1802.	0.529
317.5	0.752	1802.5	0.529
318.	0.752	1803.	0.528

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
318.5	0.751	1803.5	0.529
319.	0.75	1804.	0.53
319.5	0.751	1804.5	0.529
320.	0.752	1805.	0.528
320.5	0.75	1805.5	0.529
321.	0.751	1806.	0.528
321.5	0.75	1806.5	0.529
322.	0.752	1807.	0.527
322.5	0.75	1807.5	0.529
323.	0.751	1808.	0.527
323.5	0.748	1808.5	0.528
324.	0.751	1809.	0.528
324.5	0.747	1809.5	0.53
325.	0.75	1810.	0.527
325.5	0.75	1810.5	0.529
326.	0.75	1811.	0.527
326.5	0.748	1811.5	0.528
327.	0.75	1812.	0.527
327.5	0.75	1812.5	0.528
328.	0.75	1813.	0.528
328.5	0.749	1813.5	0.529
329.	0.75	1814.	0.527
329.5	0.748	1814.5	0.527
330.	0.749	1815.	0.526
330.5	0.748	1815.5	0.528
331.	0.749	1816.	0.527
331.5	0.748	1816.5	0.528
332.	0.749	1817.	0.527
332.5	0.748	1817.5	0.528
333.	0.75	1818.	0.527
333.5	0.748	1818.5	0.529
334.	0.748	1819.	0.527
334.5	0.746	1819.5	0.528
335.	0.748	1820.	0.526
335.5	0.747	1820.5	0.528
336.	0.746	1821.	0.527
336.5	0.746	1821.5	0.528
337.	0.747	1822.	0.527
337.5	0.746	1822.5	0.527
338.	0.748	1823.	0.526
338.5	0.746	1823.5	0.528
339.	0.745	1824.	0.526
339.5	0.745	1824.5	0.528
340.	0.747	1825.	0.527
340.5	0.744	1825.5	0.528
341.	0.747	1826.	0.524
341.5	0.745	1826.5	0.527
342.	0.746	1827.	0.526
342.5	0.745	1827.5	0.527
343.	0.746	1828.	0.525
343.5	0.745	1828.5	0.527
344.	0.746	1829.	0.526
344.5	0.744	1829.5	0.527
345.	0.747	1830.	0.525
345.5	0.743	1830.5	0.526
346.	0.746	1831.	0.526
346.5	0.744	1831.5	0.526
347.	0.745	1832.	0.526
347.5	0.745	1832.5	0.526
348.	0.744	1833.	0.525
348.5	0.743	1833.5	0.527
349.	0.744	1834.	0.525
349.5	0.742	1834.5	0.525
350.	0.745	1835.	0.524
350.5	0.743	1835.5	0.526
351.	0.744	1836.	0.525
351.5	0.742	1836.5	0.526

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
352.	0.744	1837.	0.524
352.5	0.743	1837.5	0.526
353.	0.744	1838.	0.525
353.5	0.743	1838.5	0.526
354.	0.744	1839.	0.523
354.5	0.742	1839.5	0.526
355.	0.744	1840.	0.523
355.5	0.742	1840.5	0.526
356.	0.744	1841.	0.524
356.5	0.742	1841.5	0.526
357.	0.741	1842.	0.524
357.5	0.741	1842.5	0.526
358.	0.742	1843.	0.524
358.5	0.743	1843.5	0.525
359.	0.741	1844.	0.522
359.5	0.742	1844.5	0.524
360.	0.742	1845.	0.522
360.5	0.741	1845.5	0.525
361.	0.741	1846.	0.522
361.5	0.741	1846.5	0.525
362.	0.742	1847.	0.524
362.5	0.74	1847.5	0.523
363.	0.741	1848.	0.523
363.5	0.74	1848.5	0.523
364.	0.742	1849.	0.523
364.5	0.74	1849.5	0.524
365.	0.74	1850.	0.522
365.5	0.739	1850.5	0.524
366.	0.741	1851.	0.522
366.5	0.738	1851.5	0.524
367.	0.739	1852.	0.522
367.5	0.738	1852.5	0.524
368.	0.74	1853.	0.521
368.5	0.739	1853.5	0.524
369.	0.74	1854.	0.522
369.5	0.738	1854.5	0.524
370.	0.741	1855.	0.521
370.5	0.739	1855.5	0.523
371.	0.74	1856.	0.521
371.5	0.737	1856.5	0.524
372.	0.739	1857.	0.521
372.5	0.738	1857.5	0.522
373.	0.739	1858.	0.521
373.5	0.737	1858.5	0.523
374.	0.74	1859.	0.522
374.5	0.738	1859.5	0.524
375.	0.74	1860.	0.521
375.5	0.739	1860.5	0.522
376.	0.738	1861.	0.521
376.5	0.737	1861.5	0.522
377.	0.738	1862.	0.521
377.5	0.737	1862.5	0.524
378.	0.738	1863.	0.523
378.5	0.737	1863.5	0.523
379.	0.74	1864.	0.52
379.5	0.738	1864.5	0.522
380.	0.74	1865.	0.521
380.5	0.737	1865.5	0.522
381.	0.738	1866.	0.521
381.5	0.736	1866.5	0.522
382.	0.739	1867.	0.52
382.5	0.737	1867.5	0.522
383.	0.738	1868.	0.52
383.5	0.737	1868.5	0.522
384.	0.738	1869.	0.521
384.5	0.736	1869.5	0.522
385.	0.737	1870.	0.52

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
385.5	0.736	1870.5	0.523
386.	0.738	1871.	0.52
386.5	0.736	1871.5	0.521
387.	0.737	1872.	0.521
387.5	0.737	1872.5	0.521
388.	0.737	1873.	0.519
388.5	0.736	1873.5	0.521
389.	0.738	1874.	0.519
389.5	0.736	1874.5	0.521
390.	0.737	1875.	0.519
390.5	0.735	1875.5	0.52
391.	0.737	1876.	0.518
391.5	0.735	1876.5	0.522
392.	0.737	1877.	0.519
392.5	0.736	1877.5	0.52
393.	0.737	1878.	0.518
393.5	0.735	1878.5	0.521
394.	0.736	1879.	0.519
394.5	0.736	1879.5	0.52
395.	0.736	1880.	0.519
395.5	0.735	1880.5	0.52
396.	0.736	1881.	0.519
396.5	0.735	1881.5	0.52
397.	0.735	1882.	0.521
397.5	0.734	1882.5	0.52
398.	0.735	1883.	0.519
398.5	0.735	1883.5	0.521
399.	0.735	1884.	0.519
399.5	0.733	1884.5	0.519
400.	0.737	1885.	0.52
400.5	0.733	1885.5	0.521
401.	0.736	1886.	0.519
401.5	0.734	1886.5	0.521
402.	0.734	1887.	0.52
402.5	0.733	1887.5	0.519
403.	0.734	1888.	0.519
403.5	0.734	1888.5	0.52
404.	0.733	1889.	0.518
404.5	0.732	1889.5	0.521
405.	0.733	1890.	0.518
405.5	0.734	1890.5	0.519
406.	0.734	1891.	0.519
406.5	0.732	1891.5	0.52
407.	0.733	1892.	0.519
407.5	0.732	1892.5	0.521
408.	0.733	1893.	0.519
408.5	0.731	1893.5	0.521
409.	0.732	1894.	0.519
409.5	0.731	1894.5	0.52
410.	0.733	1895.	0.517
410.5	0.731	1895.5	0.521
411.	0.731	1896.	0.518
411.5	0.73	1896.5	0.52
412.	0.731	1897.	0.518
412.5	0.73	1897.5	0.519
413.	0.732	1898.	0.518
413.5	0.73	1898.5	0.52
414.	0.731	1899.	0.517
414.5	0.73	1899.5	0.52
415.	0.73	1900.	0.518
415.5	0.729	1900.5	0.519
416.	0.731	1901.	0.517
416.5	0.729	1901.5	0.519
417.	0.731	1902.	0.518
417.5	0.729	1902.5	0.518
418.	0.731	1903.	0.517
418.5	0.729	1903.5	0.517

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
419.	0.73	1904.	0.518
419.5	0.728	1904.5	0.518
420.	0.73	1905.	0.518
420.5	0.73	1905.5	0.518
421.	0.731	1906.	0.518
421.5	0.73	1906.5	0.518
422.	0.73	1907.	0.517
422.5	0.728	1907.5	0.518
423.	0.729	1908.	0.518
423.5	0.728	1908.5	0.518
424.	0.729	1909.	0.516
424.5	0.728	1909.5	0.518
425.	0.729	1910.	0.516
425.5	0.727	1910.5	0.517
426.	0.729	1911.	0.516
426.5	0.727	1911.5	0.517
427.	0.728	1912.	0.516
427.5	0.727	1912.5	0.516
428.	0.729	1913.	0.516
428.5	0.726	1913.5	0.518
429.	0.728	1914.	0.515
429.5	0.726	1914.5	0.517
430.	0.727	1915.	0.516
430.5	0.726	1915.5	0.517
431.	0.728	1916.	0.516
431.5	0.725	1916.5	0.517
432.	0.726	1917.	0.515
432.5	0.725	1917.5	0.517
433.	0.726	1918.	0.515
433.5	0.725	1918.5	0.515
434.	0.726	1919.	0.514
434.5	0.725	1919.5	0.516
435.	0.726	1920.	0.514
435.5	0.724	1920.5	0.516
436.	0.726	1921.	0.515
436.5	0.724	1921.5	0.516
437.	0.725	1922.	0.514
437.5	0.722	1922.5	0.516
438.	0.725	1923.	0.515
438.5	0.724	1923.5	0.516
439.	0.724	1924.	0.515
439.5	0.724	1924.5	0.516
440.	0.725	1925.	0.514
440.5	0.724	1925.5	0.516
441.	0.724	1926.	0.513
441.5	0.723	1926.5	0.515
442.	0.724	1927.	0.514
442.5	0.722	1927.5	0.514
443.	0.724	1928.	0.514
443.5	0.724	1928.5	0.515
444.	0.723	1929.	0.515
444.5	0.721	1929.5	0.516
445.	0.723	1930.	0.513
445.5	0.722	1930.5	0.515
446.	0.723	1931.	0.513
446.5	0.722	1931.5	0.514
447.	0.723	1932.	0.513
447.5	0.722	1932.5	0.514
448.	0.723	1933.	0.513
448.5	0.721	1933.5	0.514
449.	0.723	1934.	0.513
449.5	0.721	1934.5	0.515
450.	0.723	1935.	0.513
450.5	0.722	1935.5	0.514
451.	0.721	1936.	0.513
451.5	0.721	1936.5	0.513
452.	0.722	1937.	0.512

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
452.5	0.721	1937.5	0.514
453.	0.721	1938.	0.512
453.5	0.72	1938.5	0.514
454.	0.722	1939.	0.512
454.5	0.722	1939.5	0.514
455.	0.722	1940.	0.511
455.5	0.722	1940.5	0.514
456.	0.721	1941.	0.513
456.5	0.721	1941.5	0.514
457.	0.721	1942.	0.513
457.5	0.721	1942.5	0.514
458.	0.722	1943.	0.512
458.5	0.72	1943.5	0.515
459.	0.721	1944.	0.512
459.5	0.72	1944.5	0.514
460.	0.721	1945.	0.513
460.5	0.72	1945.5	0.515
461.	0.721	1946.	0.512
461.5	0.719	1946.5	0.515
462.	0.721	1947.	0.513
462.5	0.719	1947.5	0.514
463.	0.72	1948.	0.512
463.5	0.72	1948.5	0.514
464.	0.72	1949.	0.511
464.5	0.72	1949.5	0.514
465.	0.719	1950.	0.511
465.5	0.72	1950.5	0.513
466.	0.72	1951.	0.511
466.5	0.719	1951.5	0.513
467.	0.719	1952.	0.511
467.5	0.718	1952.5	0.513
468.	0.719	1953.	0.512
468.5	0.718	1953.5	0.512
469.	0.72	1954.	0.512
469.5	0.717	1954.5	0.512
470.	0.719	1955.	0.51
470.5	0.718	1955.5	0.512
471.	0.719	1956.	0.511
471.5	0.717	1956.5	0.513
472.	0.719	1957.	0.511
472.5	0.718	1957.5	0.512
473.	0.72	1958.	0.511
473.5	0.718	1958.5	0.511
474.	0.718	1959.	0.51
474.5	0.717	1959.5	0.511
475.	0.717	1960.	0.51
475.5	0.716	1960.5	0.512
476.	0.718	1961.	0.511
476.5	0.716	1961.5	0.512
477.	0.718	1962.	0.511
477.5	0.716	1962.5	0.511
478.	0.717	1963.	0.511
478.5	0.716	1963.5	0.513
479.	0.716	1964.	0.509
479.5	0.716	1964.5	0.511
480.	0.717	1965.	0.51
480.5	0.716	1965.5	0.512
481.	0.716	1966.	0.511
481.5	0.713	1966.5	0.513
482.	0.716	1967.	0.51
482.5	0.715	1967.5	0.512
483.	0.716	1968.	0.511
483.5	0.714	1968.5	0.512
484.	0.716	1969.	0.512
484.5	0.714	1969.5	0.511
485.	0.716	1970.	0.51
485.5	0.714	1970.5	0.511

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
486.	0.716	1971.	0.511
486.5	0.714	1971.5	0.513
487.	0.714	1972.	0.51
487.5	0.714	1972.5	0.512
488.	0.714	1973.	0.509
488.5	0.715	1973.5	0.513
489.	0.716	1974.	0.51
489.5	0.714	1974.5	0.513
490.	0.715	1975.	0.51
490.5	0.714	1975.5	0.512
491.	0.714	1976.	0.512
491.5	0.715	1976.5	0.511
492.	0.715	1977.	0.511
492.5	0.714	1977.5	0.512
493.	0.715	1978.	0.511
493.5	0.713	1978.5	0.512
494.	0.714	1979.	0.511
494.5	0.714	1979.5	0.51
495.	0.714	1980.	0.511
495.5	0.713	1980.5	0.511
496.	0.714	1981.	0.509
496.5	0.712	1981.5	0.511
497.	0.715	1982.	0.508
497.5	0.714	1982.5	0.511
498.	0.714	1983.	0.509
498.5	0.712	1983.5	0.509
499.	0.714	1984.	0.509
499.5	0.712	1984.5	0.511
500.	0.714	1985.	0.509
500.5	0.711	1985.5	0.51
501.	0.714	1986.	0.506
501.5	0.712	1986.5	0.51
502.	0.713	1987.	0.509
502.5	0.712	1987.5	0.51
503.	0.714	1988.	0.508
503.5	0.712	1988.5	0.509
504.	0.713	1989.	0.508
504.5	0.71	1989.5	0.509
505.	0.712	1990.	0.508
505.5	0.71	1990.5	0.51
506.	0.712	1991.	0.507
506.5	0.71	1991.5	0.51
507.	0.712	1992.	0.509
507.5	0.71	1992.5	0.508
508.	0.713	1993.	0.508
508.5	0.71	1993.5	0.508
509.	0.711	1994.	0.507
509.5	0.708	1994.5	0.509
510.	0.711	1995.	0.507
510.5	0.71	1995.5	0.508
511.	0.711	1996.	0.508
511.5	0.709	1996.5	0.509
512.	0.71	1997.	0.508
512.5	0.708	1997.5	0.508
513.	0.708	1998.	0.506
513.5	0.707	1998.5	0.509
514.	0.71	1999.	0.507
514.5	0.709	1999.5	0.508
515.	0.708	2000.	0.508
515.5	0.709	2000.5	0.508
516.	0.708	2001.	0.507
516.5	0.709	2001.5	0.508
517.	0.71	2002.	0.508
517.5	0.708	2002.5	0.508
518.	0.708	2003.	0.506
518.5	0.707	2003.5	0.508
519.	0.708	2004.	0.507

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
519.5	0.707	2004.5	0.507
520.	0.709	2005.	0.507
520.5	0.707	2005.5	0.507
521.	0.707	2006.	0.506
521.5	0.708	2006.5	0.507
522.	0.708	2007.	0.508
522.5	0.706	2007.5	0.507
523.	0.707	2008.	0.506
523.5	0.707	2008.5	0.508
524.	0.708	2009.	0.508
524.5	0.706	2009.5	0.509
525.	0.707	2010.	0.507
525.5	0.705	2010.5	0.507
526.	0.707	2011.	0.506
526.5	0.707	2011.5	0.508
527.	0.707	2012.	0.504
527.5	0.705	2012.5	0.508
528.	0.707	2013.	0.506
528.5	0.705	2013.5	0.508
529.	0.706	2014.	0.506
529.5	0.705	2014.5	0.506
530.	0.706	2015.	0.506
530.5	0.706	2015.5	0.507
531.	0.709	2016.	0.507
531.5	0.706	2016.5	0.508
532.	0.707	2017.	0.505
532.5	0.705	2017.5	0.507
533.	0.707	2018.	0.506
533.5	0.705	2018.5	0.507
534.	0.706	2019.	0.507
534.5	0.704	2019.5	0.508
535.	0.705	2020.	0.505
535.5	0.705	2020.5	0.506
536.	0.705	2021.	0.506
536.5	0.704	2021.5	0.507
537.	0.705	2022.	0.505
537.5	0.704	2022.5	0.507
538.	0.705	2023.	0.505
538.5	0.704	2023.5	0.506
539.	0.705	2024.	0.504
539.5	0.704	2024.5	0.506
540.	0.705	2025.	0.506
540.5	0.704	2025.5	0.506
541.	0.704	2026.	0.505
541.5	0.703	2026.5	0.505
542.	0.705	2027.	0.505
542.5	0.702	2027.5	0.506
543.	0.704	2028.	0.505
543.5	0.703	2028.5	0.505
544.	0.705	2029.	0.505
544.5	0.702	2029.5	0.504
545.	0.702	2030.	0.503
545.5	0.704	2030.5	0.505
546.	0.703	2031.	0.504
546.5	0.702	2031.5	0.506
547.	0.703	2032.	0.503
547.5	0.701	2032.5	0.506
548.	0.704	2033.	0.504
548.5	0.701	2033.5	0.505
549.	0.703	2034.	0.502
549.5	0.701	2034.5	0.504
550.	0.703	2035.	0.503
550.5	0.701	2035.5	0.506
551.	0.702	2036.	0.504
551.5	0.701	2036.5	0.505
552.	0.703	2037.	0.503
552.5	0.7	2037.5	0.504

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
553.	0.702	2038.	0.504
553.5	0.701	2038.5	0.505
554.	0.701	2039.	0.502
554.5	0.701	2039.5	0.504
555.	0.702	2040.	0.503
555.5	0.702	2040.5	0.505
556.	0.702	2041.	0.501
556.5	0.699	2041.5	0.504
557.	0.702	2042.	0.503
557.5	0.7	2042.5	0.504
558.	0.701	2043.	0.501
558.5	0.7	2043.5	0.503
559.	0.701	2044.	0.501
559.5	0.7	2044.5	0.503
560.	0.702	2045.	0.502
560.5	0.7	2045.5	0.502
561.	0.7	2046.	0.5
561.5	0.7	2046.5	0.502
562.	0.7	2047.	0.501
562.5	0.699	2047.5	0.503
563.	0.7	2048.	0.501
563.5	0.698	2048.5	0.501
564.	0.701	2049.	0.5
564.5	0.699	2049.5	0.503
565.	0.699	2050.	0.501
565.5	0.698	2050.5	0.502
566.	0.699	2051.	0.5
566.5	0.697	2051.5	0.502
567.	0.7	2052.	0.501
567.5	0.697	2052.5	0.502
568.	0.698	2053.	0.5
568.5	0.698	2053.5	0.503
569.	0.699	2054.	0.501
569.5	0.697	2054.5	0.502
570.	0.699	2055.	0.501
570.5	0.698	2055.5	0.502
571.	0.697	2056.	0.499
571.5	0.697	2056.5	0.5
572.	0.699	2057.	0.5
572.5	0.697	2057.5	0.501
573.	0.697	2058.	0.5
573.5	0.697	2058.5	0.502
574.	0.697	2059.	0.5
574.5	0.698	2059.5	0.501
575.	0.698	2060.	0.501
575.5	0.696	2060.5	0.502
576.	0.698	2061.	0.5
576.5	0.697	2061.5	0.502
577.	0.7	2062.	0.499
577.5	0.697	2062.5	0.501
578.	0.698	2063.	0.5
578.5	0.697	2063.5	0.5
579.	0.698	2064.	0.499
579.5	0.696	2064.5	0.501
580.	0.698	2065.	0.5
580.5	0.697	2065.5	0.501
581.	0.698	2066.	0.498
581.5	0.697	2066.5	0.501
582.	0.698	2067.	0.5
582.5	0.696	2067.5	0.501
583.	0.697	2068.	0.5
583.5	0.696	2068.5	0.5
584.	0.696	2069.	0.498
584.5	0.697	2069.5	0.502
585.	0.698	2070.	0.5
585.5	0.695	2070.5	0.5
586.	0.697	2071.	0.5

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
586.5	0.696	2071.5	0.501
587.	0.697	2072.	0.5
587.5	0.695	2072.5	0.5
588.	0.696	2073.	0.499
588.5	0.693	2073.5	0.501
589.	0.696	2074.	0.499
589.5	0.694	2074.5	0.501
590.	0.695	2075.	0.498
590.5	0.693	2075.5	0.5
591.	0.695	2076.	0.499
591.5	0.693	2076.5	0.5
592.	0.694	2077.	0.499
592.5	0.693	2077.5	0.501
593.	0.694	2078.	0.498
593.5	0.692	2078.5	0.5
594.	0.694	2079.	0.497
594.5	0.693	2079.5	0.5
595.	0.694	2080.	0.5
595.5	0.692	2080.5	0.5
596.	0.695	2081.	0.499
596.5	0.691	2081.5	0.5
597.	0.694	2082.	0.498
597.5	0.692	2082.5	0.5
598.	0.694	2083.	0.499
598.5	0.692	2083.5	0.5
599.	0.693	2084.	0.498
599.5	0.692	2084.5	0.499
600.	0.692	2085.	0.498
600.5	0.691	2085.5	0.499
601.	0.691	2086.	0.498
601.5	0.691	2086.5	0.5
602.	0.693	2087.	0.498
602.5	0.69	2087.5	0.499
603.	0.691	2088.	0.498
603.5	0.69	2088.5	0.498
604.	0.693	2089.	0.498
604.5	0.69	2089.5	0.498
605.	0.692	2090.	0.498
605.5	0.69	2090.5	0.499
606.	0.691	2091.	0.498
606.5	0.692	2091.5	0.498
607.	0.691	2092.	0.497
607.5	0.691	2092.5	0.498
608.	0.692	2093.	0.497
608.5	0.69	2093.5	0.498
609.	0.692	2094.	0.496
609.5	0.688	2094.5	0.499
610.	0.691	2095.	0.497
610.5	0.69	2095.5	0.499
611.	0.69	2096.	0.497
611.5	0.69	2096.5	0.498
612.	0.691	2097.	0.498
612.5	0.69	2097.5	0.499
613.	0.691	2098.	0.498
613.5	0.688	2098.5	0.498
614.	0.69	2099.	0.497
614.5	0.689	2099.5	0.499
615.	0.69	2100.	0.495
615.5	0.689	2100.5	0.498
616.	0.689	2101.	0.496
616.5	0.689	2101.5	0.498
617.	0.688	2102.	0.496
617.5	0.688	2102.5	0.498
618.	0.689	2103.	0.497
618.5	0.689	2103.5	0.498
619.	0.689	2104.	0.496
619.5	0.688	2104.5	0.497

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
620.	0.689	2105.	0.496
620.5	0.688	2105.5	0.498
621.	0.689	2106.	0.497
621.5	0.689	2106.5	0.498
622.	0.69	2107.	0.495
622.5	0.688	2107.5	0.497
623.	0.69	2108.	0.496
623.5	0.688	2108.5	0.497
624.	0.688	2109.	0.496
624.5	0.689	2109.5	0.497
625.	0.69	2110.	0.495
625.5	0.687	2110.5	0.496
626.	0.69	2111.	0.496
626.5	0.689	2111.5	0.497
627.	0.69	2112.	0.496
627.5	0.689	2112.5	0.497
628.	0.69	2113.	0.495
628.5	0.689	2113.5	0.497
629.	0.689	2114.	0.495
629.5	0.687	2114.5	0.497
630.	0.691	2115.	0.495
630.5	0.689	2115.5	0.496
631.	0.69	2116.	0.494
631.5	0.688	2116.5	0.496
632.	0.69	2117.	0.493
632.5	0.688	2117.5	0.497
633.	0.691	2118.	0.495
633.5	0.688	2118.5	0.495
634.	0.69	2119.	0.495
634.5	0.688	2119.5	0.496
635.	0.69	2120.	0.493
635.5	0.689	2120.5	0.496
636.	0.691	2121.	0.495
636.5	0.687	2121.5	0.495
637.	0.689	2122.	0.494
637.5	0.688	2122.5	0.495
638.	0.69	2123.	0.493
638.5	0.688	2123.5	0.494
639.	0.688	2124.	0.494
639.5	0.688	2124.5	0.495
640.	0.687	2125.	0.494
640.5	0.688	2125.5	0.494
641.	0.69	2126.	0.493
641.5	0.687	2126.5	0.495
642.	0.689	2127.	0.494
642.5	0.687	2127.5	0.494
643.	0.69	2128.	0.492
643.5	0.687	2128.5	0.494
644.	0.688	2129.	0.492
644.5	0.687	2129.5	0.494
645.	0.689	2130.	0.491
645.5	0.686	2130.5	0.494
646.	0.688	2131.	0.493
646.5	0.686	2131.5	0.493
647.	0.687	2132.	0.493
647.5	0.685	2132.5	0.491
648.	0.689	2133.	0.493
648.5	0.687	2133.5	0.493
649.	0.687	2134.	0.493
649.5	0.685	2134.5	0.494
650.	0.688	2135.	0.493
650.5	0.686	2135.5	0.494
651.	0.687	2136.	0.493
651.5	0.685	2136.5	0.494
652.	0.689	2137.	0.492
652.5	0.685	2137.5	0.494
653.	0.688	2138.	0.492

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
653.5	0.684	2138.5	0.494
654.	0.685	2139.	0.492
654.5	0.685	2139.5	0.494
655.	0.686	2140.	0.493
655.5	0.685	2140.5	0.494
656.	0.686	2141.	0.492
656.5	0.685	2141.5	0.494
657.	0.687	2142.	0.493
657.5	0.684	2142.5	0.493
658.	0.685	2143.	0.493
658.5	0.683	2143.5	0.494
659.	0.685	2144.	0.492
659.5	0.683	2144.5	0.494
660.	0.684	2145.	0.493
660.5	0.683	2145.5	0.494
661.	0.685	2146.	0.493
661.5	0.684	2146.5	0.493
662.	0.685	2147.	0.492
662.5	0.683	2147.5	0.494
663.	0.682	2148.	0.492
663.5	0.684	2148.5	0.495
664.	0.684	2149.	0.492
664.5	0.682	2149.5	0.494
665.	0.685	2150.	0.493
665.5	0.682	2150.5	0.493
666.	0.683	2151.	0.491
666.5	0.682	2151.5	0.493
667.	0.682	2152.	0.491
667.5	0.681	2152.5	0.494
668.	0.682	2153.	0.492
668.5	0.68	2153.5	0.492
669.	0.682	2154.	0.492
669.5	0.682	2154.5	0.494
670.	0.683	2155.	0.492
670.5	0.682	2155.5	0.493
671.	0.682	2156.	0.491
671.5	0.682	2156.5	0.495
672.	0.682	2157.	0.492
672.5	0.681	2157.5	0.492
673.	0.682	2158.	0.493
673.5	0.682	2158.5	0.493
674.	0.682	2159.	0.493
674.5	0.681	2159.5	0.494
675.	0.681	2160.	0.493
675.5	0.682	2160.5	0.496
676.	0.681	2161.	0.491
676.5	0.681	2161.5	0.493
677.	0.682	2162.	0.492
677.5	0.68	2162.5	0.492
678.	0.681	2163.	0.49
678.5	0.681	2163.5	0.493
679.	0.679	2164.	0.491
679.5	0.68	2164.5	0.491
680.	0.681	2165.	0.491
680.5	0.681	2165.5	0.493
681.	0.679	2166.	0.492
681.5	0.681	2166.5	0.491
682.	0.68	2167.	0.49
682.5	0.678	2167.5	0.491
683.	0.68	2168.	0.492
683.5	0.68	2168.5	0.493
684.	0.68	2169.	0.491
684.5	0.678	2169.5	0.492
685.	0.681	2170.	0.491
685.5	0.678	2170.5	0.492
686.	0.68	2171.	0.491
686.5	0.679	2171.5	0.492

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
687.	0.679	2172.	0.49
687.5	0.679	2172.5	0.493
688.	0.679	2173.	0.491
688.5	0.679	2173.5	0.491
689.	0.679	2174.	0.49
689.5	0.679	2174.5	0.492
690.	0.679	2175.	0.49
690.5	0.678	2175.5	0.492
691.	0.679	2176.	0.491
691.5	0.68	2176.5	0.493
692.	0.677	2177.	0.492
692.5	0.676	2177.5	0.492
693.	0.677	2178.	0.491
693.5	0.677	2178.5	0.491
694.	0.679	2179.	0.49
694.5	0.677	2179.5	0.492
695.	0.679	2180.	0.49
695.5	0.675	2180.5	0.493
696.	0.679	2181.	0.492
696.5	0.676	2181.5	0.492
697.	0.677	2182.	0.492
697.5	0.677	2182.5	0.492
698.	0.677	2183.	0.491
698.5	0.677	2183.5	0.491
699.	0.677	2184.	0.491
699.5	0.677	2184.5	0.492
700.	0.677	2185.	0.49
700.5	0.676	2185.5	0.491
701.	0.677	2186.	0.488
701.5	0.675	2186.5	0.49
702.	0.677	2187.	0.489
702.5	0.676	2187.5	0.491
703.	0.675	2188.	0.489
703.5	0.676	2188.5	0.492
704.	0.677	2189.	0.49
704.5	0.675	2189.5	0.49
705.	0.678	2190.	0.49
705.5	0.675	2190.5	0.491
706.	0.676	2191.	0.49
706.5	0.675	2191.5	0.491
707.	0.673	2192.	0.488
707.5	0.674	2192.5	0.49
708.	0.675	2193.	0.488
708.5	0.673	2193.5	0.49
709.	0.675	2194.	0.488
709.5	0.674	2194.5	0.49
710.	0.675	2195.	0.488
710.5	0.672	2195.5	0.49
711.	0.675	2196.	0.489
711.5	0.673	2196.5	0.489
712.	0.674	2197.	0.489
712.5	0.673	2197.5	0.49
713.	0.674	2198.	0.489
713.5	0.672	2198.5	0.489
714.	0.673	2199.	0.487
714.5	0.672	2199.5	0.489
715.	0.673	2200.	0.487
715.5	0.672	2200.5	0.489
716.	0.673	2201.	0.488
716.5	0.672	2201.5	0.488
717.	0.673	2202.	0.488
717.5	0.671	2202.5	0.488
718.	0.673	2203.	0.487
718.5	0.672	2203.5	0.489
719.	0.673	2204.	0.487
719.5	0.672	2204.5	0.488
720.	0.673	2205.	0.487

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
720.5	0.672	2205.5	0.487
721.	0.672	2206.	0.487
721.5	0.671	2206.5	0.487
722.	0.673	2207.	0.486
722.5	0.672	2207.5	0.488
723.	0.672	2208.	0.486
723.5	0.67	2208.5	0.489
724.	0.672	2209.	0.485
724.5	0.671	2209.5	0.488
725.	0.672	2210.	0.485
725.5	0.671	2210.5	0.487
726.	0.671	2211.	0.485
726.5	0.669	2211.5	0.487
727.	0.672	2212.	0.486
727.5	0.67	2212.5	0.487
728.	0.672	2213.	0.486
728.5	0.67	2213.5	0.487
729.	0.67	2214.	0.485
729.5	0.672	2214.5	0.487
730.	0.672	2215.	0.485
730.5	0.67	2215.5	0.486
731.	0.67	2216.	0.486
731.5	0.669	2216.5	0.487
732.	0.671	2217.	0.485
732.5	0.67	2217.5	0.487
733.	0.672	2218.	0.485
733.5	0.671	2218.5	0.487
734.	0.671	2219.	0.485
734.5	0.67	2219.5	0.486
735.	0.67	2220.	0.485
735.5	0.67	2220.5	0.486
736.	0.671	2221.	0.485
736.5	0.669	2221.5	0.486
737.	0.671	2222.	0.485
737.5	0.67	2222.5	0.486
738.	0.669	2223.	0.486
738.5	0.67	2223.5	0.485
739.	0.671	2224.	0.484
739.5	0.669	2224.5	0.484
740.	0.67	2225.	0.485
740.5	0.669	2225.5	0.485
741.	0.671	2226.	0.485
741.5	0.668	2226.5	0.486
742.	0.672	2227.	0.485
742.5	0.67	2227.5	0.486
743.	0.67	2228.	0.483
743.5	0.669	2228.5	0.486
744.	0.669	2229.	0.485
744.5	0.669	2229.5	0.485
745.	0.668	2230.	0.483
745.5	0.669	2230.5	0.485
746.	0.669	2231.	0.482
746.5	0.668	2231.5	0.486
747.	0.67	2232.	0.485
747.5	0.668	2232.5	0.486
748.	0.669	2233.	0.485
748.5	0.667	2233.5	0.484
749.	0.668	2234.	0.484
749.5	0.669	2234.5	0.485
750.	0.668	2235.	0.484
750.5	0.668	2235.5	0.484
751.	0.671	2236.	0.485
751.5	0.668	2236.5	0.485
752.	0.667	2237.	0.483
752.5	0.668	2237.5	0.484
753.	0.667	2238.	0.484
753.5	0.667	2238.5	0.484

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
754.	0.669	2239.	0.484
754.5	0.667	2239.5	0.485
755.	0.668	2240.	0.483
755.5	0.666	2240.5	0.484
756.	0.668	2241.	0.482
756.5	0.666	2241.5	0.483
757.	0.669	2242.	0.482
757.5	0.667	2242.5	0.484
758.	0.668	2243.	0.483
758.5	0.666	2243.5	0.483
759.	0.668	2244.	0.482
759.5	0.666	2244.5	0.484
760.	0.667	2245.	0.483
760.5	0.668	2245.5	0.483
761.	0.668	2246.	0.482
761.5	0.667	2246.5	0.483
762.	0.667	2247.	0.482
762.5	0.668	2247.5	0.482
763.	0.666	2248.	0.481
763.5	0.667	2248.5	0.484
764.	0.668	2249.	0.482
764.5	0.667	2249.5	0.482
765.	0.667	2250.	0.481
765.5	0.665	2250.5	0.483
766.	0.666	2251.	0.481
766.5	0.666	2251.5	0.482
767.	0.668	2252.	0.482
767.5	0.665	2252.5	0.482
768.	0.666	2253.	0.483
768.5	0.666	2253.5	0.483
769.	0.667	2254.	0.481
769.5	0.666	2254.5	0.481
770.	0.667	2255.	0.482
770.5	0.665	2255.5	0.482
771.	0.666	2256.	0.482
771.5	0.666	2256.5	0.483
772.	0.668	2257.	0.48
772.5	0.666	2257.5	0.482
773.	0.667	2258.	0.481
773.5	0.664	2258.5	0.482
774.	0.665	2259.	0.481
774.5	0.664	2259.5	0.483
775.	0.666	2260.	0.48
775.5	0.665	2260.5	0.484
776.	0.664	2261.	0.482
776.5	0.664	2261.5	0.482
777.	0.665	2262.	0.481
777.5	0.664	2262.5	0.482
778.	0.664	2263.	0.48
778.5	0.664	2263.5	0.483
779.	0.664	2264.	0.481
779.5	0.663	2264.5	0.483
780.	0.665	2265.	0.482
780.5	0.662	2265.5	0.481
781.	0.664	2266.	0.482
781.5	0.664	2266.5	0.484
782.	0.665	2267.	0.481
782.5	0.662	2267.5	0.483
783.	0.663	2268.	0.48
783.5	0.661	2268.5	0.482
784.	0.664	2269.	0.481
784.5	0.663	2269.5	0.481
785.	0.664	2270.	0.48
785.5	0.661	2270.5	0.481
786.	0.662	2271.	0.482
786.5	0.662	2271.5	0.482
787.	0.663	2272.	0.48

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
787.5	0.662	2272.5	0.481
788.	0.663	2273.	0.48
788.5	0.662	2273.5	0.481
789.	0.663	2274.	0.48
789.5	0.662	2274.5	0.482
790.	0.664	2275.	0.48
790.5	0.662	2275.5	0.481
791.	0.663	2276.	0.479
791.5	0.661	2276.5	0.48
792.	0.663	2277.	0.48
792.5	0.66	2277.5	0.48
793.	0.661	2278.	0.479
793.5	0.661	2278.5	0.48
794.	0.663	2279.	0.48
794.5	0.661	2279.5	0.481
795.	0.661	2280.	0.479
795.5	0.66	2280.5	0.481
796.	0.66	2281.	0.479
796.5	0.66	2281.5	0.48
797.	0.662	2282.	0.479
797.5	0.66	2282.5	0.48
798.	0.661	2283.	0.479
798.5	0.66	2283.5	0.48
799.	0.662	2284.	0.479
799.5	0.66	2284.5	0.48
800.	0.661	2285.	0.477
800.5	0.66	2285.5	0.479
801.	0.66	2286.	0.478
801.5	0.659	2286.5	0.48
802.	0.661	2287.	0.477
802.5	0.659	2287.5	0.48
803.	0.661	2288.	0.478
803.5	0.66	2288.5	0.48
804.	0.661	2289.	0.477
804.5	0.66	2289.5	0.478
805.	0.66	2290.	0.477
805.5	0.66	2290.5	0.479
806.	0.66	2291.	0.477
806.5	0.658	2291.5	0.479
807.	0.661	2292.	0.477
807.5	0.658	2292.5	0.479
808.	0.66	2293.	0.476
808.5	0.66	2293.5	0.478
809.	0.66	2294.	0.476
809.5	0.659	2294.5	0.479
810.	0.66	2295.	0.477
810.5	0.658	2295.5	0.48
811.	0.66	2296.	0.477
811.5	0.659	2296.5	0.478
812.	0.66	2297.	0.477
812.5	0.658	2297.5	0.478
813.	0.659	2298.	0.477
813.5	0.658	2298.5	0.478
814.	0.66	2299.	0.477
814.5	0.657	2299.5	0.478
815.	0.658	2300.	0.476
815.5	0.658	2300.5	0.478
816.	0.66	2301.	0.477
816.5	0.657	2301.5	0.477
817.	0.658	2302.	0.476
817.5	0.657	2302.5	0.478
818.	0.658	2303.	0.475
818.5	0.657	2303.5	0.478
819.	0.66	2304.	0.477
819.5	0.658	2304.5	0.478
820.	0.66	2305.	0.475
820.5	0.656	2305.5	0.478

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
821.	0.658	2306.	0.476
821.5	0.656	2306.5	0.478
822.	0.658	2307.	0.477
822.5	0.657	2307.5	0.477
823.	0.657	2308.	0.476
823.5	0.656	2308.5	0.478
824.	0.658	2309.	0.476
824.5	0.658	2309.5	0.478
825.	0.657	2310.	0.476
825.5	0.657	2310.5	0.477
826.	0.657	2311.	0.476
826.5	0.657	2311.5	0.477
827.	0.657	2312.	0.476
827.5	0.656	2312.5	0.477
828.	0.658	2313.	0.475
828.5	0.657	2313.5	0.477
829.	0.656	2314.	0.475
829.5	0.654	2314.5	0.477
830.	0.657	2315.	0.474
830.5	0.655	2315.5	0.476
831.	0.656	2316.	0.476
831.5	0.654	2316.5	0.476
832.	0.657	2317.	0.474
832.5	0.655	2317.5	0.475
833.	0.655	2318.	0.475
833.5	0.653	2318.5	0.476
834.	0.655	2319.	0.475
834.5	0.654	2319.5	0.476
835.	0.657	2320.	0.475
835.5	0.654	2320.5	0.477
836.	0.656	2321.	0.474
836.5	0.653	2321.5	0.476
837.	0.656	2322.	0.474
837.5	0.654	2322.5	0.476
838.	0.656	2323.	0.473
838.5	0.653	2323.5	0.475
839.	0.654	2324.	0.476
839.5	0.653	2324.5	0.477
840.	0.655	2325.	0.473
840.5	0.652	2325.5	0.474
841.	0.654	2326.	0.476
841.5	0.653	2326.5	0.477
842.	0.653	2327.	0.474
842.5	0.653	2327.5	0.476
843.	0.654	2328.	0.475
843.5	0.654	2328.5	0.476
844.	0.654	2329.	0.475
844.5	0.653	2329.5	0.475
845.	0.654	2330.	0.475
845.5	0.651	2330.5	0.476
846.	0.654	2331.	0.475
846.5	0.652	2331.5	0.476
847.	0.653	2332.	0.474
847.5	0.651	2332.5	0.476
848.	0.653	2333.	0.475
848.5	0.651	2333.5	0.476
849.	0.652	2334.	0.475
849.5	0.652	2334.5	0.476
850.	0.653	2335.	0.474
850.5	0.652	2335.5	0.475
851.	0.653	2336.	0.473
851.5	0.651	2336.5	0.477
852.	0.654	2337.	0.474
852.5	0.652	2337.5	0.475
853.	0.652	2338.	0.474
853.5	0.651	2338.5	0.476
854.	0.652	2339.	0.473

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
854.5	0.651	2339.5	0.477
855.	0.651	2340.	0.474
855.5	0.651	2340.5	0.475
856.	0.653	2341.	0.474
856.5	0.65	2341.5	0.475
857.	0.652	2342.	0.474
857.5	0.652	2342.5	0.476
858.	0.653	2343.	0.475
858.5	0.652	2343.5	0.475
859.	0.651	2344.	0.475
859.5	0.65	2344.5	0.475
860.	0.651	2345.	0.472
860.5	0.65	2345.5	0.475
861.	0.651	2346.	0.473
861.5	0.65	2346.5	0.474
862.	0.65	2347.	0.473
862.5	0.651	2347.5	0.475
863.	0.652	2348.	0.472
863.5	0.65	2348.5	0.474
864.	0.651	2349.	0.472
864.5	0.651	2349.5	0.475
865.	0.651	2350.	0.473
865.5	0.649	2350.5	0.474
866.	0.651	2351.	0.472
866.5	0.65	2351.5	0.475
867.	0.65	2352.	0.473
867.5	0.648	2352.5	0.474
868.	0.651	2353.	0.474
868.5	0.649	2353.5	0.474
869.	0.649	2354.	0.472
869.5	0.648	2354.5	0.473
870.	0.651	2355.	0.472
870.5	0.649	2355.5	0.475
871.	0.65	2356.	0.472
871.5	0.651	2356.5	0.475
872.	0.65	2357.	0.471
872.5	0.648	2357.5	0.473
873.	0.649	2358.	0.471
873.5	0.647	2358.5	0.474
874.	0.65	2359.	0.471
874.5	0.649	2359.5	0.474
875.	0.65	2360.	0.473
875.5	0.649	2360.5	0.474
876.	0.649	2361.	0.471
876.5	0.647	2361.5	0.472
877.	0.648	2362.	0.471
877.5	0.647	2362.5	0.473
878.	0.648	2363.	0.472
878.5	0.648	2363.5	0.472
879.	0.649	2364.	0.471
879.5	0.647	2364.5	0.472
880.	0.649	2365.	0.471
880.5	0.648	2365.5	0.473
881.	0.648	2366.	0.471
881.5	0.647	2366.5	0.471
882.	0.648	2367.	0.47
882.5	0.647	2367.5	0.471
883.	0.648	2368.	0.471
883.5	0.646	2368.5	0.471
884.	0.648	2369.	0.47
884.5	0.648	2369.5	0.471
885.	0.647	2370.	0.469
885.5	0.646	2370.5	0.472
886.	0.648	2371.	0.469
886.5	0.646	2371.5	0.472
887.	0.648	2372.	0.469
887.5	0.645	2372.5	0.471

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
888.	0.646	2373.	0.471
888.5	0.646	2373.5	0.471
889.	0.647	2374.	0.471
889.5	0.645	2374.5	0.472
890.	0.648	2375.	0.47
890.5	0.645	2375.5	0.471
891.	0.646	2376.	0.47
891.5	0.644	2376.5	0.471
892.	0.647	2377.	0.47
892.5	0.646	2377.5	0.471
893.	0.646	2378.	0.469
893.5	0.645	2378.5	0.472
894.	0.646	2379.	0.468
894.5	0.645	2379.5	0.47
895.	0.645	2380.	0.468
895.5	0.645	2380.5	0.47
896.	0.646	2381.	0.468
896.5	0.644	2381.5	0.471
897.	0.647	2382.	0.468
897.5	0.644	2382.5	0.47
898.	0.645	2383.	0.468
898.5	0.645	2383.5	0.47
899.	0.645	2384.	0.469
899.5	0.643	2384.5	0.471
900.	0.644	2385.	0.47
900.5	0.644	2385.5	0.469
901.	0.645	2386.	0.469
901.5	0.644	2386.5	0.471
902.	0.645	2387.	0.469
902.5	0.643	2387.5	0.471
903.	0.645	2388.	0.468
903.5	0.643	2388.5	0.47
904.	0.645	2389.	0.468
904.5	0.644	2389.5	0.47
905.	0.644	2390.	0.467
905.5	0.643	2390.5	0.47
906.	0.645	2391.	0.468
906.5	0.644	2391.5	0.47
907.	0.645	2392.	0.469
907.5	0.643	2392.5	0.469
908.	0.645	2393.	0.468
908.5	0.643	2393.5	0.469
909.	0.643	2394.	0.468
909.5	0.643	2394.5	0.469
910.	0.644	2395.	0.469
910.5	0.642	2395.5	0.469
911.	0.645	2396.	0.467
911.5	0.641	2396.5	0.468
912.	0.645	2397.	0.467
912.5	0.643	2397.5	0.468
913.	0.643	2398.	0.467
913.5	0.641	2398.5	0.469
914.	0.642	2399.	0.467
914.5	0.643	2399.5	0.468
915.	0.644	2400.	0.468
915.5	0.641	2400.5	0.468
916.	0.642	2401.	0.467
916.5	0.641	2401.5	0.467
917.	0.642	2402.	0.466
917.5	0.641	2402.5	0.469
918.	0.642	2403.	0.466
918.5	0.642	2403.5	0.467
919.	0.642	2404.	0.467
919.5	0.641	2404.5	0.468
920.	0.642	2405.	0.467
920.5	0.641	2405.5	0.468
921.	0.642	2406.	0.466

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
921.5	0.64	2406.5	0.468
922.	0.642	2407.	0.466
922.5	0.641	2407.5	0.466
923.	0.641	2408.	0.466
923.5	0.64	2408.5	0.468
924.	0.641	2409.	0.467
924.5	0.641	2409.5	0.468
925.	0.64	2410.	0.467
925.5	0.64	2410.5	0.468
926.	0.641	2411.	0.465
926.5	0.64	2411.5	0.468
927.	0.64	2412.	0.466
927.5	0.64	2412.5	0.466
928.	0.64	2413.	0.466
928.5	0.64	2413.5	0.468
929.	0.64	2414.	0.466
929.5	0.639	2414.5	0.468
930.	0.641	2415.	0.467
930.5	0.638	2415.5	0.468
931.	0.64	2416.	0.468
931.5	0.638	2416.5	0.466
932.	0.64	2417.	0.466
932.5	0.638	2417.5	0.468
933.	0.64	2418.	0.466
933.5	0.638	2418.5	0.468
934.	0.639	2419.	0.466
934.5	0.639	2419.5	0.466
935.	0.639	2420.	0.467
935.5	0.636	2420.5	0.467
936.	0.639	2421.	0.465
936.5	0.639	2421.5	0.467
937.	0.639	2422.	0.466
937.5	0.638	2422.5	0.467
938.	0.638	2423.	0.467
938.5	0.638	2423.5	0.467
939.	0.638	2424.	0.466
939.5	0.636	2424.5	0.468
940.	0.638	2425.	0.466
940.5	0.638	2425.5	0.467
941.	0.638	2426.	0.468
941.5	0.637	2426.5	0.467
942.	0.639	2427.	0.466
942.5	0.637	2427.5	0.468
943.	0.638	2428.	0.467
943.5	0.635	2428.5	0.467
944.	0.637	2429.	0.465
944.5	0.637	2429.5	0.467
945.	0.637	2430.	0.465
945.5	0.636	2430.5	0.466
946.	0.638	2431.	0.464
946.5	0.637	2431.5	0.467
947.	0.638	2432.	0.465
947.5	0.636	2432.5	0.465
948.	0.639	2433.	0.463
948.5	0.636	2433.5	0.466
949.	0.637	2434.	0.465
949.5	0.636	2434.5	0.465
950.	0.636	2435.	0.464
950.5	0.636	2435.5	0.467
951.	0.637	2436.	0.464
951.5	0.635	2436.5	0.465
952.	0.636	2437.	0.464
952.5	0.634	2437.5	0.466
953.	0.636	2438.	0.463
953.5	0.635	2438.5	0.465
954.	0.637	2439.	0.466
954.5	0.635	2439.5	0.465

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
955.	0.635	2440.	0.464
955.5	0.636	2440.5	0.464
956.	0.635	2441.	0.464
956.5	0.634	2441.5	0.465
957.	0.635	2442.	0.462
957.5	0.634	2442.5	0.465
958.	0.636	2443.	0.462
958.5	0.635	2443.5	0.466
959.	0.636	2444.	0.464
959.5	0.634	2444.5	0.465
960.	0.636	2445.	0.461
960.5	0.633	2445.5	0.464
961.	0.635	2446.	0.463
961.5	0.633	2446.5	0.465
962.	0.634	2447.	0.461
962.5	0.635	2447.5	0.463
963.	0.634	2448.	0.463
963.5	0.632	2448.5	0.465
964.	0.636	2449.	0.461
964.5	0.633	2449.5	0.463
965.	0.635	2450.	0.463
965.5	0.633	2450.5	0.464
966.	0.634	2451.	0.463
966.5	0.633	2451.5	0.464
967.	0.635	2452.	0.463
967.5	0.633	2452.5	0.464
968.	0.635	2453.	0.463
968.5	0.632	2453.5	0.463
969.	0.635	2454.	0.462
969.5	0.633	2454.5	0.463
970.	0.634	2455.	0.461
970.5	0.634	2455.5	0.463
971.	0.634	2456.	0.463
971.5	0.632	2456.5	0.464
972.	0.633	2457.	0.462
972.5	0.632	2457.5	0.463
973.	0.633	2458.	0.463
973.5	0.632	2458.5	0.463
974.	0.633	2459.	0.462
974.5	0.635	2459.5	0.462
975.	0.633	2460.	0.462
975.5	0.632	2460.5	0.463
976.	0.632	2461.	0.461
976.5	0.632	2461.5	0.463
977.	0.633	2462.	0.462
977.5	0.632	2462.5	0.463
978.	0.633	2463.	0.461
978.5	0.632	2463.5	0.463
979.	0.633	2464.	0.462
979.5	0.631	2464.5	0.463
980.	0.632	2465.	0.461
980.5	0.631	2465.5	0.462
981.	0.632	2466.	0.462
981.5	0.631	2466.5	0.462
982.	0.632	2467.	0.463
982.5	0.631	2467.5	0.463
983.	0.632	2468.	0.461
983.5	0.631	2468.5	0.463
984.	0.632	2469.	0.461
984.5	0.63	2469.5	0.463
985.	0.63	2470.	0.462
985.5	0.631	2470.5	0.461
986.	0.631	2471.	0.46
986.5	0.63	2471.5	0.463
987.	0.631	2472.	0.46
987.5	0.631	2472.5	0.461
988.	0.631	2473.	0.461

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
988.5	0.63	2473.5	0.462
989.	0.632	2474.	0.461
989.5	0.631	2474.5	0.463
990.	0.63	2475.	0.46
990.5	0.629	2475.5	0.461
991.	0.632	2476.	0.46
991.5	0.63	2476.5	0.461
992.	0.631	2477.	0.46
992.5	0.63	2477.5	0.462
993.	0.631	2478.	0.46
993.5	0.63	2478.5	0.461
994.	0.631	2479.	0.459
994.5	0.631	2479.5	0.462
995.	0.629	2480.	0.461
995.5	0.63	2480.5	0.461
996.	0.631	2481.	0.46
996.5	0.631	2481.5	0.461
997.	0.629	2482.	0.459
997.5	0.63	2482.5	0.462
998.	0.629	2483.	0.458
998.5	0.63	2483.5	0.461
999.	0.629	2484.	0.462
999.5	0.63	2484.5	0.462
1000.	0.629	2485.	0.46
1000.5	0.63	2485.5	0.459
1001.	0.627	2486.	0.459
1001.5	0.63	2486.5	0.46
1002.	0.627	2487.	0.459
1002.5	0.63	2487.5	0.461
1003.	0.628	2488.	0.457
1003.5	0.628	2488.5	0.46
1004.	0.627	2489.	0.459
1004.5	0.628	2489.5	0.461
1005.	0.628	2490.	0.46
1005.5	0.628	2490.5	0.46
1006.	0.629	2491.	0.457
1006.5	0.628	2491.5	0.46
1007.	0.628	2492.	0.46
1007.5	0.628	2492.5	0.459
1008.	0.627	2493.	0.458
1008.5	0.628	2493.5	0.46
1009.	0.627	2494.	0.458
1009.5	0.628	2494.5	0.459
1010.	0.627	2495.	0.46
1010.5	0.628	2495.5	0.459
1011.	0.629	2496.	0.457
1011.5	0.627	2496.5	0.46
1012.	0.627	2497.	0.458
1012.5	0.627	2497.5	0.461
1013.	0.626	2498.	0.458
1013.5	0.627	2498.5	0.461
1014.	0.625	2499.	0.457
1014.5	0.627	2499.5	0.459
1015.	0.624	2500.	0.457
1015.5	0.626	2500.5	0.459
1016.	0.626	2501.	0.458
1016.5	0.626	2501.5	0.46
1017.	0.624	2502.	0.458
1017.5	0.625	2502.5	0.459
1018.	0.626	2503.	0.457
1018.5	0.627	2503.5	0.459
1019.	0.625	2504.	0.459
1019.5	0.626	2504.5	0.459
1020.	0.625	2505.	0.458
1020.5	0.626	2505.5	0.459
1021.	0.625	2506.	0.457
1021.5	0.627	2506.5	0.459

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1022.	0.624	2507.	0.457
1022.5	0.626	2507.5	0.458
1023.	0.623	2508.	0.457
1023.5	0.626	2508.5	0.458
1024.	0.624	2509.	0.456
1024.5	0.625	2509.5	0.458
1025.	0.624	2510.	0.458
1025.5	0.625	2510.5	0.458
1026.	0.625	2511.	0.457
1026.5	0.624	2511.5	0.458
1027.	0.623	2512.	0.457
1027.5	0.625	2512.5	0.459
1028.	0.624	2513.	0.457
1028.5	0.624	2513.5	0.458
1029.	0.623	2514.	0.457
1029.5	0.625	2514.5	0.458
1030.	0.623	2515.	0.457
1030.5	0.623	2515.5	0.459
1031.	0.623	2516.	0.457
1031.5	0.622	2516.5	0.458
1032.	0.622	2517.	0.456
1032.5	0.624	2517.5	0.458
1033.	0.622	2518.	0.456
1033.5	0.624	2518.5	0.458
1034.	0.622	2519.	0.457
1034.5	0.624	2519.5	0.458
1035.	0.622	2520.	0.457
1035.5	0.623	2520.5	0.457
1036.	0.622	2521.	0.455
1036.5	0.624	2521.5	0.458
1037.	0.622	2522.	0.457
1037.5	0.624	2522.5	0.457
1038.	0.622	2523.	0.456
1038.5	0.622	2523.5	0.457
1039.	0.623	2524.	0.454
1039.5	0.622	2524.5	0.457
1040.	0.621	2525.	0.457
1040.5	0.624	2525.5	0.457
1041.	0.62	2526.	0.455
1041.5	0.624	2526.5	0.458
1042.	0.622	2527.	0.454
1042.5	0.622	2527.5	0.457
1043.	0.621	2528.	0.456
1043.5	0.622	2528.5	0.456
1044.	0.621	2529.	0.456
1044.5	0.623	2529.5	0.456
1045.	0.622	2530.	0.455
1045.5	0.622	2530.5	0.456
1046.	0.62	2531.	0.455
1046.5	0.622	2531.5	0.458
1047.	0.622	2532.	0.455
1047.5	0.622	2532.5	0.456
1048.	0.62	2533.	0.457
1048.5	0.621	2533.5	0.457
1049.	0.621	2534.	0.454
1049.5	0.622	2534.5	0.456
1050.	0.62	2535.	0.454
1050.5	0.621	2535.5	0.455
1051.	0.621	2536.	0.454
1051.5	0.622	2536.5	0.457
1052.	0.62	2537.	0.454
1052.5	0.622	2537.5	0.456
1053.	0.621	2538.	0.454
1053.5	0.621	2538.5	0.456
1054.	0.62	2539.	0.453
1054.5	0.622	2539.5	0.455
1055.	0.62	2540.	0.453

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1055.5	0.621	2540.5	0.455
1056.	0.621	2541.	0.452
1056.5	0.622	2541.5	0.455
1057.	0.621	2542.	0.454
1057.5	0.621	2542.5	0.454
1058.	0.621	2543.	0.453
1058.5	0.621	2543.5	0.453
1059.	0.619	2544.	0.453
1059.5	0.622	2544.5	0.453
1060.	0.621	2545.	0.453
1060.5	0.622	2545.5	0.454
1061.	0.62	2546.	0.454
1061.5	0.62	2546.5	0.454
1062.	0.62	2547.	0.453
1062.5	0.621	2547.5	0.454
1063.	0.621	2548.	0.453
1063.5	0.62	2548.5	0.455
1064.	0.62	2549.	0.452
1064.5	0.621	2549.5	0.454
1065.	0.619	2550.	0.454
1065.5	0.621	2550.5	0.454
1066.	0.62	2551.	0.452
1066.5	0.62	2551.5	0.455
1067.	0.619	2552.	0.452
1067.5	0.619	2552.5	0.454
1068.	0.619	2553.	0.452
1068.5	0.62	2553.5	0.452
1069.	0.62	2554.	0.453
1069.5	0.621	2554.5	0.451
1070.	0.619	2555.	0.453
1070.5	0.621	2555.5	0.453
1071.	0.62	2556.	0.453
1071.5	0.62	2556.5	0.453
1072.	0.619	2557.	0.45
1072.5	0.619	2557.5	0.452
1073.	0.618	2558.	0.453
1073.5	0.62	2558.5	0.454
1074.	0.618	2559.	0.452
1074.5	0.619	2559.5	0.453
1075.	0.618	2560.	0.452
1075.5	0.619	2560.5	0.452
1076.	0.617	2561.	0.453
1076.5	0.619	2561.5	0.454
1077.	0.618	2562.	0.453
1077.5	0.619	2562.5	0.452
1078.	0.617	2563.	0.451
1078.5	0.619	2563.5	0.453
1079.	0.616	2564.	0.451
1079.5	0.618	2564.5	0.453
1080.	0.618	2565.	0.451
1080.5	0.618	2565.5	0.453
1081.	0.618	2566.	0.451
1081.5	0.619	2566.5	0.452
1082.	0.617	2567.	0.453
1082.5	0.617	2567.5	0.452
1083.	0.617	2568.	0.45
1083.5	0.618	2568.5	0.451
1084.	0.615	2569.	0.451
1084.5	0.617	2569.5	0.451
1085.	0.616	2570.	0.45
1085.5	0.617	2570.5	0.452
1086.	0.616	2571.	0.449
1086.5	0.618	2571.5	0.451
1087.	0.616	2572.	0.45
1087.5	0.617	2572.5	0.45
1088.	0.615	2573.	0.45
1088.5	0.616	2573.5	0.452

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1089.	0.616	2574.	0.45
1089.5	0.617	2574.5	0.452
1090.	0.616	2575.	0.45
1090.5	0.616	2575.5	0.452
1091.	0.616	2576.	0.45
1091.5	0.617	2576.5	0.451
1092.	0.615	2577.	0.449
1092.5	0.616	2577.5	0.451
1093.	0.616	2578.	0.45
1093.5	0.616	2578.5	0.452
1094.	0.616	2579.	0.45
1094.5	0.616	2579.5	0.451
1095.	0.615	2580.	0.449
1095.5	0.616	2580.5	0.452
1096.	0.615	2581.	0.451
1096.5	0.615	2581.5	0.451
1097.	0.616	2582.	0.451
1097.5	0.616	2582.5	0.451
1098.	0.614	2583.	0.449
1098.5	0.616	2583.5	0.452
1099.	0.614	2584.	0.45
1099.5	0.616	2584.5	0.451
1100.	0.614	2585.	0.45
1100.5	0.616	2585.5	0.451
1101.	0.615	2586.	0.45
1101.5	0.616	2586.5	0.451
1102.	0.613	2587.	0.449
1102.5	0.616	2587.5	0.451
1103.	0.613	2588.	0.45
1103.5	0.615	2588.5	0.451
1104.	0.613	2589.	0.448
1104.5	0.616	2589.5	0.451
1105.	0.614	2590.	0.451
1105.5	0.616	2590.5	0.451
1106.	0.612	2591.	0.45
1106.5	0.614	2591.5	0.451
1107.	0.615	2592.	0.45
1107.5	0.614	2592.5	0.451
1108.	0.614	2593.	0.449
1108.5	0.614	2593.5	0.451
1109.	0.613	2594.	0.448
1109.5	0.614	2594.5	0.451
1110.	0.613	2595.	0.449
1110.5	0.615	2595.5	0.45
1111.	0.612	2596.	0.449
1111.5	0.614	2596.5	0.45
1112.	0.611	2597.	0.449
1112.5	0.615	2597.5	0.45
1113.	0.613	2598.	0.449
1113.5	0.613	2598.5	0.45
1114.	0.612	2599.	0.449
1114.5	0.614	2599.5	0.449
1115.	0.611	2600.	0.449
1115.5	0.614	2600.5	0.45
1116.	0.612	2601.	0.448
1116.5	0.614	2601.5	0.449
1117.	0.612	2602.	0.448
1117.5	0.612	2602.5	0.45
1118.	0.611	2603.	0.448
1118.5	0.612	2603.5	0.449
1119.	0.611	2604.	0.45
1119.5	0.612	2604.5	0.45
1120.	0.61	2605.	0.45
1120.5	0.612	2605.5	0.449
1121.	0.611	2606.	0.447
1121.5	0.612	2606.5	0.45
1122.	0.61	2607.	0.448

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1122.5	0.611	2607.5	0.449
1123.	0.612	2608.	0.448
1123.5	0.612	2608.5	0.451
1124.	0.611	2609.	0.449
1124.5	0.612	2609.5	0.449
1125.	0.61	2610.	0.447
1125.5	0.612	2610.5	0.45
1126.	0.609	2611.	0.449
1126.5	0.613	2611.5	0.449
1127.	0.609	2612.	0.449
1127.5	0.612	2612.5	0.449
1128.	0.612	2613.	0.447
1128.5	0.61	2613.5	0.449
1129.	0.61	2614.	0.449
1129.5	0.612	2614.5	0.448
1130.	0.611	2615.	0.447
1130.5	0.612	2615.5	0.449
1131.	0.61	2616.	0.45
1131.5	0.611	2616.5	0.447
1132.	0.609	2617.	0.449
1132.5	0.611	2617.5	0.449
1133.	0.609	2618.	0.449
1133.5	0.611	2618.5	0.448
1134.	0.609	2619.	0.448
1134.5	0.61	2619.5	0.448
1135.	0.609	2620.	0.448
1135.5	0.61	2620.5	0.447
1136.	0.608	2621.	0.449
1136.5	0.609	2621.5	0.447
1137.	0.609	2622.	0.448
1137.5	0.61	2622.5	0.447
1138.	0.609	2623.	0.449
1138.5	0.61	2623.5	0.447
1139.	0.608	2624.	0.448
1139.5	0.611	2624.5	0.446
1140.	0.609	2625.	0.448
1140.5	0.609	2625.5	0.447
1141.	0.607	2626.	0.448
1141.5	0.609	2626.5	0.448
1142.	0.608	2627.	0.448
1142.5	0.609	2627.5	0.447
1143.	0.607	2628.	0.448
1143.5	0.609	2628.5	0.448
1144.	0.609	2629.	0.448
1144.5	0.609	2629.5	0.447
1145.	0.609	2630.	0.448
1145.5	0.609	2630.5	0.448
1146.	0.607	2631.	0.446
1146.5	0.61	2631.5	0.447
1147.	0.609	2632.	0.448
1147.5	0.609	2632.5	0.447
1148.	0.607	2633.	0.447
1148.5	0.608	2633.5	0.447
1149.	0.609	2634.	0.447
1149.5	0.61	2634.5	0.445
1150.	0.609	2635.	0.448
1150.5	0.61	2635.5	0.445
1151.	0.609	2636.	0.447
1151.5	0.61	2636.5	0.446
1152.	0.607	2637.	0.448
1152.5	0.609	2637.5	0.446
1153.	0.608	2638.	0.447
1153.5	0.61	2638.5	0.446
1154.	0.607	2639.	0.447
1154.5	0.609	2639.5	0.445
1155.	0.608	2640.	0.447
1155.5	0.609	2640.5	0.445

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1156.	0.608	2641.	0.447
1156.5	0.61	2641.5	0.445
1157.	0.607	2642.	0.447
1157.5	0.609	2642.5	0.445
1158.	0.606	2643.	0.447
1158.5	0.608	2643.5	0.446
1159.	0.606	2644.	0.446
1159.5	0.607	2644.5	0.446
1160.	0.607	2645.	0.446
1160.5	0.607	2645.5	0.444
1161.	0.606	2646.	0.448
1161.5	0.607	2646.5	0.445
1162.	0.605	2647.	0.448
1162.5	0.608	2647.5	0.445
1163.	0.605	2648.	0.446
1163.5	0.607	2648.5	0.445
1164.	0.607	2649.	0.446
1164.5	0.606	2649.5	0.445
1165.	0.606	2650.	0.446
1165.5	0.607	2650.5	0.444
1166.	0.606	2651.	0.446
1166.5	0.607	2651.5	0.442
1167.	0.605	2652.	0.445
1167.5	0.605	2652.5	0.443
1168.	0.606	2653.	0.446
1168.5	0.607	2653.5	0.443
1169.	0.606	2654.	0.445
1169.5	0.606	2654.5	0.443
1170.	0.606	2655.	0.445
1170.5	0.605	2655.5	0.444
1171.	0.604	2656.	0.446
1171.5	0.607	2656.5	0.445
1172.	0.605	2657.	0.445
1172.5	0.605	2657.5	0.445
1173.	0.604	2658.	0.446
1173.5	0.606	2658.5	0.444
1174.	0.604	2659.	0.445
1174.5	0.605	2659.5	0.445
1175.	0.604	2660.	0.445
1175.5	0.606	2660.5	0.443
1176.	0.604	2661.	0.445
1176.5	0.605	2661.5	0.443
1177.	0.602	2662.	0.445
1177.5	0.605	2662.5	0.444
1178.	0.603	2663.	0.444
1178.5	0.606	2663.5	0.443
1179.	0.603	2664.	0.445
1179.5	0.604	2664.5	0.443
1180.	0.603	2665.	0.445
1180.5	0.602	2665.5	0.443
1181.	0.601	2666.	0.444
1181.5	0.603	2666.5	0.442
1182.	0.603	2667.	0.444
1182.5	0.604	2667.5	0.441
1183.	0.604	2668.	0.445
1183.5	0.605	2668.5	0.443
1184.	0.601	2669.	0.443
1184.5	0.604	2669.5	0.444
1185.	0.602	2670.	0.445
1185.5	0.604	2670.5	0.442
1186.	0.601	2671.	0.444
1186.5	0.603	2671.5	0.443
1187.	0.601	2672.	0.442
1187.5	0.603	2672.5	0.444
1188.	0.601	2673.	0.443
1188.5	0.603	2673.5	0.442
1189.	0.602	2674.	0.444

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1189.5	0.603	2674.5	0.442
1190.	0.601	2675.	0.445
1190.5	0.603	2675.5	0.443
1191.	0.601	2676.	0.443
1191.5	0.604	2676.5	0.442
1192.	0.601	2677.	0.445
1192.5	0.602	2677.5	0.442
1193.	0.601	2678.	0.444
1193.5	0.604	2678.5	0.442
1194.	0.6	2679.	0.443
1194.5	0.602	2679.5	0.441
1195.	0.6	2680.	0.443
1195.5	0.601	2680.5	0.442
1196.	0.6	2681.	0.441
1196.5	0.601	2681.5	0.441
1197.	0.601	2682.	0.443
1197.5	0.601	2682.5	0.442
1198.	0.599	2683.	0.443
1198.5	0.601	2683.5	0.442
1199.	0.601	2684.	0.443
1199.5	0.602	2684.5	0.441
1200.	0.6	2685.	0.443
1200.5	0.603	2685.5	0.441
1201.	0.601	2686.	0.442
1201.5	0.602	2686.5	0.441
1202.	0.601	2687.	0.442
1202.5	0.602	2687.5	0.441
1203.	0.601	2688.	0.441
1203.5	0.601	2688.5	0.441
1204.	0.601	2689.	0.441
1204.5	0.601	2689.5	0.441
1205.	0.601	2690.	0.442
1205.5	0.601	2690.5	0.44
1206.	0.599	2691.	0.441
1206.5	0.602	2691.5	0.441
1207.	0.601	2692.	0.441
1207.5	0.6	2692.5	0.44
1208.	0.599	2693.	0.441
1208.5	0.601	2693.5	0.441
1209.	0.6	2694.	0.441
1209.5	0.601	2694.5	0.441
1210.	0.599	2695.	0.442
1210.5	0.601	2695.5	0.44
1211.	0.6	2696.	0.441
1211.5	0.602	2696.5	0.439
1212.	0.6	2697.	0.441
1212.5	0.6	2697.5	0.44
1213.	0.599	2698.	0.442
1213.5	0.601	2698.5	0.44
1214.	0.599	2699.	0.442
1214.5	0.601	2699.5	0.44
1215.	0.599	2700.	0.442
1215.5	0.6	2700.5	0.441
1216.	0.599	2701.	0.441
1216.5	0.6	2701.5	0.44
1217.	0.599	2702.	0.44
1217.5	0.6	2702.5	0.44
1218.	0.599	2703.	0.442
1218.5	0.6	2703.5	0.44
1219.	0.6	2704.	0.442
1219.5	0.599	2704.5	0.44
1220.	0.599	2705.	0.441
1220.5	0.601	2705.5	0.44
1221.	0.599	2706.	0.441
1221.5	0.6	2706.5	0.44
1222.	0.598	2707.	0.441
1222.5	0.599	2707.5	0.441

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1223.	0.599	2708.	0.441
1223.5	0.598	2708.5	0.441
1224.	0.598	2709.	0.44
1224.5	0.6	2709.5	0.441
1225.	0.597	2710.	0.442
1225.5	0.599	2710.5	0.439
1226.	0.599	2711.	0.44
1226.5	0.599	2711.5	0.438
1227.	0.597	2712.	0.44
1227.5	0.598	2712.5	0.438
1228.	0.597	2713.	0.441
1228.5	0.598	2713.5	0.439
1229.	0.597	2714.	0.44
1229.5	0.598	2714.5	0.44
1230.	0.596	2715.	0.44
1230.5	0.599	2715.5	0.438
1231.	0.597	2716.	0.439
1231.5	0.599	2716.5	0.438
1232.	0.597	2717.	0.44
1232.5	0.597	2717.5	0.438
1233.	0.597	2718.	0.439
1233.5	0.599	2718.5	0.438
1234.	0.597	2719.	0.44
1234.5	0.598	2719.5	0.439
1235.	0.597	2720.	0.439
1235.5	0.598	2720.5	0.439
1236.	0.597	2721.	0.441
1236.5	0.599	2721.5	0.439
1237.	0.596	2722.	0.439
1237.5	0.598	2722.5	0.438
1238.	0.596	2723.	0.44
1238.5	0.597	2723.5	0.44
1239.	0.597	2724.	0.439
1239.5	0.598	2724.5	0.437
1240.	0.595	2725.	0.439
1240.5	0.597	2725.5	0.438
1241.	0.596	2726.	0.44
1241.5	0.598	2726.5	0.439
1242.	0.596	2727.	0.438
1242.5	0.597	2727.5	0.438
1243.	0.597	2728.	0.438
1243.5	0.597	2728.5	0.438
1244.	0.596	2729.	0.44
1244.5	0.598	2729.5	0.437
1245.	0.597	2730.	0.439
1245.5	0.598	2730.5	0.437
1246.	0.595	2731.	0.439
1246.5	0.596	2731.5	0.436
1247.	0.595	2732.	0.438
1247.5	0.597	2732.5	0.437
1248.	0.595	2733.	0.439
1248.5	0.597	2733.5	0.438
1249.	0.596	2734.	0.439
1249.5	0.595	2734.5	0.437
1250.	0.596	2735.	0.438
1250.5	0.596	2735.5	0.437
1251.	0.594	2736.	0.437
1251.5	0.597	2736.5	0.437
1252.	0.595	2737.	0.436
1252.5	0.596	2737.5	0.437
1253.	0.595	2738.	0.439
1253.5	0.596	2738.5	0.436
1254.	0.594	2739.	0.437
1254.5	0.597	2739.5	0.436
1255.	0.596	2740.	0.437
1255.5	0.595	2740.5	0.435
1256.	0.595	2741.	0.436

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1256.5	0.594	2741.5	0.437
1257.	0.595	2742.	0.438
1257.5	0.595	2742.5	0.437
1258.	0.594	2743.	0.437
1258.5	0.596	2743.5	0.435
1259.	0.594	2744.	0.437
1259.5	0.596	2744.5	0.437
1260.	0.594	2745.	0.436
1260.5	0.596	2745.5	0.435
1261.	0.594	2746.	0.438
1261.5	0.595	2746.5	0.437
1262.	0.594	2747.	0.436
1262.5	0.595	2747.5	0.435
1263.	0.594	2748.	0.437
1263.5	0.595	2748.5	0.436
1264.	0.596	2749.	0.437
1264.5	0.595	2749.5	0.437
1265.	0.594	2750.	0.438
1265.5	0.594	2750.5	0.437
1266.	0.594	2751.	0.438
1266.5	0.594	2751.5	0.436
1267.	0.593	2752.	0.438
1267.5	0.594	2752.5	0.436
1268.	0.593	2753.	0.439
1268.5	0.596	2753.5	0.436
1269.	0.593	2754.	0.437
1269.5	0.594	2754.5	0.437
1270.	0.592	2755.	0.437
1270.5	0.594	2755.5	0.437
1271.	0.593	2756.	0.437
1271.5	0.594	2756.5	0.437
1272.	0.593	2757.	0.437
1272.5	0.592	2757.5	0.436
1273.	0.592	2758.	0.438
1273.5	0.594	2758.5	0.436
1274.	0.592	2759.	0.437
1274.5	0.593	2759.5	0.434
1275.	0.592	2760.	0.438
1275.5	0.593	2760.5	0.437
1276.	0.592	2761.	0.437
1276.5	0.593	2761.5	0.437
1277.	0.592	2762.	0.437
1277.5	0.592	2762.5	0.436
1278.	0.591	2763.	0.438
1278.5	0.592	2763.5	0.436
1279.	0.591	2764.	0.438
1279.5	0.591	2764.5	0.435
1280.	0.591	2765.	0.438
1280.5	0.593	2765.5	0.435
1281.	0.591	2766.	0.437
1281.5	0.593	2766.5	0.436
1282.	0.59	2767.	0.436
1282.5	0.593	2767.5	0.435
1283.	0.591	2768.	0.437
1283.5	0.593	2768.5	0.436
1284.	0.591	2769.	0.436
1284.5	0.592	2769.5	0.437
1285.	0.591	2770.	0.435
1285.5	0.592	2770.5	0.434
1286.	0.59	2771.	0.437
1286.5	0.592	2771.5	0.435
1287.	0.59	2772.	0.437
1287.5	0.592	2772.5	0.436
1288.	0.589	2773.	0.436
1288.5	0.591	2773.5	0.435
1289.	0.589	2774.	0.436
1289.5	0.591	2774.5	0.434

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1290.	0.59	2775.	0.437
1290.5	0.591	2775.5	0.435
1291.	0.59	2776.	0.435
1291.5	0.591	2776.5	0.436
1292.	0.589	2777.	0.435
1292.5	0.59	2777.5	0.433
1293.	0.59	2778.	0.436
1293.5	0.59	2778.5	0.434
1294.	0.59	2779.	0.437
1294.5	0.591	2779.5	0.433
1295.	0.589	2780.	0.435
1295.5	0.591	2780.5	0.435
1296.	0.588	2781.	0.436
1296.5	0.59	2781.5	0.433
1297.	0.59	2782.	0.436
1297.5	0.59	2782.5	0.434
1298.	0.59	2783.	0.435
1298.5	0.59	2783.5	0.434
1299.	0.589	2784.	0.434
1299.5	0.59	2784.5	0.434
1300.	0.589	2785.	0.435
1300.5	0.59	2785.5	0.433
1301.	0.588	2786.	0.434
1301.5	0.589	2786.5	0.433
1302.	0.589	2787.	0.434
1302.5	0.589	2787.5	0.433
1303.	0.589	2788.	0.434
1303.5	0.589	2788.5	0.432
1304.	0.589	2789.	0.435
1304.5	0.589	2789.5	0.433
1305.	0.588	2790.	0.434
1305.5	0.589	2790.5	0.432
1306.	0.588	2791.	0.434
1306.5	0.589	2791.5	0.431
1307.	0.588	2792.	0.433
1307.5	0.589	2792.5	0.432
1308.	0.586	2793.	0.434
1308.5	0.589	2793.5	0.432
1309.	0.588	2794.	0.434
1309.5	0.588	2794.5	0.432
1310.	0.587	2795.	0.433
1310.5	0.589	2795.5	0.432
1311.	0.586	2796.	0.432
1311.5	0.588	2796.5	0.432
1312.	0.588	2797.	0.433
1312.5	0.589	2797.5	0.431
1313.	0.586	2798.	0.434
1313.5	0.589	2798.5	0.432
1314.	0.587	2799.	0.433
1314.5	0.588	2799.5	0.432
1315.	0.586	2800.	0.432
1315.5	0.588	2800.5	0.431
1316.	0.586	2801.	0.434
1316.5	0.588	2801.5	0.431
1317.	0.586	2802.	0.433
1317.5	0.587	2802.5	0.432
1318.	0.586	2803.	0.433
1318.5	0.588	2803.5	0.432
1319.	0.586	2804.	0.433
1319.5	0.588	2804.5	0.433
1320.	0.586	2805.	0.432
1320.5	0.588	2805.5	0.433
1321.	0.586	2806.	0.434
1321.5	0.587	2806.5	0.431
1322.	0.586	2807.	0.433
1322.5	0.587	2807.5	0.433
1323.	0.586	2808.	0.433

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1323.5	0.588	2808.5	0.432
1324.	0.586	2809.	0.433
1324.5	0.587	2809.5	0.431
1325.	0.586	2810.	0.434
1325.5	0.586	2810.5	0.431
1326.	0.585	2811.	0.432
1326.5	0.588	2811.5	0.431
1327.	0.586	2812.	0.433
1327.5	0.587	2812.5	0.431
1328.	0.586	2813.	0.432
1328.5	0.585	2813.5	0.431
1329.	0.586	2814.	0.432
1329.5	0.585	2814.5	0.43
1330.	0.584	2815.	0.433
1330.5	0.586	2815.5	0.429
1331.	0.586	2816.	0.432
1331.5	0.587	2816.5	0.429
1332.	0.586	2817.	0.432
1332.5	0.588	2817.5	0.431
1333.	0.585	2818.	0.432
1333.5	0.585	2818.5	0.43
1334.	0.584	2819.	0.433
1334.5	0.585	2819.5	0.431
1335.	0.586	2820.	0.432
1335.5	0.585	2820.5	0.43
1336.	0.585	2821.	0.432
1336.5	0.586	2821.5	0.431
1337.	0.585	2822.	0.432
1337.5	0.585	2822.5	0.43
1338.	0.584	2823.	0.431
1338.5	0.585	2823.5	0.43
1339.	0.584	2824.	0.432
1339.5	0.585	2824.5	0.43
1340.	0.584	2825.	0.43
1340.5	0.586	2825.5	0.429
1341.	0.582	2826.	0.431
1341.5	0.584	2826.5	0.43
1342.	0.582	2827.	0.432
1342.5	0.584	2827.5	0.429
1343.	0.583	2828.	0.431
1343.5	0.585	2828.5	0.429
1344.	0.582	2829.	0.43
1344.5	0.584	2829.5	0.429
1345.	0.583	2830.	0.431
1345.5	0.584	2830.5	0.429
1346.	0.583	2831.	0.43
1346.5	0.582	2831.5	0.429
1347.	0.583	2832.	0.431
1347.5	0.583	2832.5	0.429
1348.	0.582	2833.	0.43
1348.5	0.583	2833.5	0.429
1349.	0.582	2834.	0.431
1349.5	0.585	2834.5	0.43
1350.	0.582	2835.	0.43
1350.5	0.584	2835.5	0.43
1351.	0.581	2836.	0.431
1351.5	0.584	2836.5	0.428
1352.	0.581	2837.	0.431
1352.5	0.582	2837.5	0.429
1353.	0.581	2838.	0.431
1353.5	0.583	2838.5	0.428
1354.	0.582	2839.	0.43
1354.5	0.582	2839.5	0.43
1355.	0.58	2840.	0.429
1355.5	0.582	2840.5	0.429
1356.	0.58	2841.	0.432
1356.5	0.582	2841.5	0.428

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1357.	0.58	2842.	0.429
1357.5	0.582	2842.5	0.429
1358.	0.579	2843.	0.431
1358.5	0.583	2843.5	0.429
1359.	0.581	2844.	0.43
1359.5	0.583	2844.5	0.428
1360.	0.581	2845.	0.429
1360.5	0.582	2845.5	0.426
1361.	0.58	2846.	0.429
1361.5	0.584	2846.5	0.429
1362.	0.581	2847.	0.43
1362.5	0.582	2847.5	0.428
1363.	0.581	2848.	0.429
1363.5	0.582	2848.5	0.428
1364.	0.581	2849.	0.429
1364.5	0.583	2849.5	0.429
1365.	0.582	2850.	0.43
1365.5	0.581	2850.5	0.428
1366.	0.58	2851.	0.429
1366.5	0.582	2851.5	0.427
1367.	0.58	2852.	0.429
1367.5	0.581	2852.5	0.427
1368.	0.579	2853.	0.428
1368.5	0.582	2853.5	0.427
1369.	0.579	2854.	0.429
1369.5	0.581	2854.5	0.428
1370.	0.579	2855.	0.428
1370.5	0.581	2855.5	0.427
1371.	0.579	2856.	0.429
1371.5	0.581	2856.5	0.428
1372.	0.579	2857.	0.428
1372.5	0.581	2857.5	0.427
1373.	0.579	2858.	0.429
1373.5	0.58	2858.5	0.427
1374.	0.579	2859.	0.428
1374.5	0.58	2859.5	0.427
1375.	0.579	2860.	0.427
1375.5	0.58	2860.5	0.426
1376.	0.579	2861.	0.429
1376.5	0.58	2861.5	0.428
1377.	0.577	2862.	0.428
1377.5	0.58	2862.5	0.426
1378.	0.579	2863.	0.428
1378.5	0.58	2863.5	0.427
1379.	0.578	2864.	0.427
1379.5	0.58	2864.5	0.426
1380.	0.578	2865.	0.428
1380.5	0.58	2865.5	0.425
1381.	0.579	2866.	0.427
1381.5	0.58	2866.5	0.426
1382.	0.579	2867.	0.428
1382.5	0.579	2867.5	0.425
1383.	0.578	2868.	0.427
1383.5	0.58	2868.5	0.425
1384.	0.577	2869.	0.426
1384.5	0.579	2869.5	0.425
1385.	0.578	2870.	0.426
1385.5	0.579	2870.5	0.426
1386.	0.576	2871.	0.426
1386.5	0.579	2871.5	0.424
1387.	0.577	2872.	0.428
1387.5	0.579	2872.5	0.426
1388.	0.576	2873.	0.427
1388.5	0.579	2873.5	0.426
1389.	0.576	2874.	0.426
1389.5	0.579	2874.5	0.426
1390.	0.577	2875.	0.426

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1390.5	0.578	2875.5	0.425
1391.	0.577	2876.	0.427
1391.5	0.578	2876.5	0.425
1392.	0.576	2877.	0.426
1392.5	0.576	2877.5	0.424
1393.	0.576	2878.	0.426
1393.5	0.578	2878.5	0.426
1394.	0.576	2879.	0.425
1394.5	0.576	2879.5	0.424
1395.	0.575	2880.	0.425
1395.5	0.577	2880.5	0.426
1396.	0.576	2881.	0.426
1396.5	0.577	2881.5	0.424
1397.	0.576	2882.	0.425
1397.5	0.576	2882.5	0.423
1398.	0.576	2883.	0.425
1398.5	0.576	2883.5	0.424
1399.	0.576	2884.	0.425
1399.5	0.576	2884.5	0.423
1400.	0.574	2885.	0.424
1400.5	0.577	2885.5	0.422
1401.	0.574	2886.	0.425
1401.5	0.576	2886.5	0.424
1402.	0.574	2887.	0.425
1402.5	0.576	2887.5	0.423
1403.	0.574	2888.	0.424
1403.5	0.574	2888.5	0.423
1404.	0.575	2889.	0.424
1404.5	0.574	2889.5	0.423
1405.	0.573	2890.	0.425
1405.5	0.575	2890.5	0.424
1406.	0.575	2891.	0.424
1406.5	0.574	2891.5	0.424
1407.	0.573	2892.	0.425
1407.5	0.576	2892.5	0.423
1408.	0.575	2893.	0.425
1408.5	0.575	2893.5	0.422
1409.	0.573	2894.	0.424
1409.5	0.575	2894.5	0.423
1410.	0.573	2895.	0.424
1410.5	0.575	2895.5	0.423
1411.	0.573	2896.	0.426
1411.5	0.573	2896.5	0.424
1412.	0.575	2897.	0.424
1412.5	0.575	2897.5	0.422
1413.	0.573	2898.	0.424
1413.5	0.574	2898.5	0.423
1414.	0.572	2899.	0.424
1414.5	0.574	2899.5	0.423
1415.	0.573	2900.	0.425
1415.5	0.574	2900.5	0.423
1416.	0.572	2901.	0.425
1416.5	0.572	2901.5	0.424
1417.	0.572	2902.	0.424
1417.5	0.572	2902.5	0.424
1418.	0.57	2903.	0.424
1418.5	0.573	2903.5	0.424
1419.	0.572	2904.	0.424
1419.5	0.573	2904.5	0.423
1420.	0.572	2905.	0.424
1420.5	0.574	2905.5	0.424
1421.	0.572	2906.	0.425
1421.5	0.573	2906.5	0.422
1422.	0.572	2907.	0.425
1422.5	0.572	2907.5	0.423
1423.	0.571	2908.	0.424
1423.5	0.573	2908.5	0.421

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1424.	0.571	2909.	0.425
1424.5	0.572	2909.5	0.423
1425.	0.573	2910.	0.424
1425.5	0.571	2910.5	0.423
1426.	0.572	2911.	0.423
1426.5	0.573	2911.5	0.422
1427.	0.572	2912.	0.424
1427.5	0.572	2912.5	0.422
1428.	0.57	2913.	0.424
1428.5	0.571	2913.5	0.422
1429.	0.57	2914.	0.424
1429.5	0.571	2914.5	0.422
1430.	0.572	2915.	0.424
1430.5	0.572	2915.5	0.423
1431.	0.57	2916.	0.422
1431.5	0.572	2916.5	0.422
1432.	0.568	2917.	0.424
1432.5	0.572	2917.5	0.423
1433.	0.57	2918.	0.424
1433.5	0.572	2918.5	0.422
1434.	0.57	2919.	0.424
1434.5	0.572	2919.5	0.42
1435.	0.57	2920.	0.423
1435.5	0.572	2920.5	0.422
1436.	0.57	2921.	0.424
1436.5	0.572	2921.5	0.421
1437.	0.57	2922.	0.424
1437.5	0.57	2922.5	0.422
1438.	0.569	2923.	0.423
1438.5	0.57	2923.5	0.421
1439.	0.57	2924.	0.424
1439.5	0.57	2924.5	0.422
1440.	0.569	2925.	0.422
1440.5	0.57	2925.5	0.421
1441.	0.57	2926.	0.422
1441.5	0.571	2926.5	0.421
1442.	0.568	2927.	0.422
1442.5	0.569	2927.5	0.421
1443.	0.567	2928.	0.421
1443.5	0.57	2928.5	0.422
1444.	0.569	2929.	0.422
1444.5	0.57	2929.5	0.421
1445.	0.568	2930.	0.423
1445.5	0.57	2930.5	0.419
1446.	0.567	2931.	0.423
1446.5	0.57	2931.5	0.42
1447.	0.569	2932.	0.421
1447.5	0.57	2932.5	0.42
1448.	0.568	2933.	0.421
1448.5	0.568	2933.5	0.421
1449.	0.568	2934.	0.422
1449.5	0.57	2934.5	0.421
1450.	0.568	2935.	0.421
1450.5	0.57	2935.5	0.42
1451.	0.567	2936.	0.422
1451.5	0.57	2936.5	0.42
1452.	0.568	2937.	0.421
1452.5	0.569	2937.5	0.42
1453.	0.568	2938.	0.422
1453.5	0.569	2938.5	0.42
1454.	0.568	2939.	0.421
1454.5	0.569	2939.5	0.419
1455.	0.568	2940.	0.421
1455.5	0.569	2940.5	0.421
1456.	0.568	2941.	0.42
1456.5	0.569	2941.5	0.42
1457.	0.569	2942.	0.421

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1457.5	0.569	2942.5	0.421
1458.	0.568	2943.	0.421
1458.5	0.569	2943.5	0.42
1459.	0.568	2944.	0.421
1459.5	0.57	2944.5	0.419
1460.	0.567	2945.	0.42
1460.5	0.57	2945.5	0.419
1461.	0.567	2946.	0.419
1461.5	0.569	2946.5	0.418
1462.	0.568	2947.	0.419
1462.5	0.569	2947.5	0.419
1463.	0.568	2948.	0.419
1463.5	0.569	2948.5	0.418
1464.	0.567	2949.	0.419
1464.5	0.568	2949.5	0.419
1465.	0.566	2950.	0.419
1465.5	0.569	2950.5	0.42
1466.	0.566	2951.	0.421
1466.5	0.568	2951.5	0.418
1467.	0.567	2952.	0.419
1467.5	0.567	2952.5	0.418
1468.	0.568	2953.	0.419
1468.5	0.568	2953.5	0.419
1469.	0.566	2954.	0.42
1469.5	0.569	2954.5	0.417
1470.	0.565	2955.	0.42
1470.5	0.568	2955.5	0.419
1471.	0.568	2956.	0.419
1471.5	0.568	2956.5	0.418
1472.	0.566	2957.	0.419
1472.5	0.568	2957.5	0.417
1473.	0.566	2958.	0.42
1473.5	0.566	2958.5	0.419
1474.	0.566	2959.	0.419
1474.5	0.568	2959.5	0.417
1475.	0.566	2960.	0.419
1475.5	0.567	2960.5	0.419
1476.	0.566	2961.	0.419
1476.5	0.567	2961.5	0.417
1477.	0.566	2962.	0.419
1477.5	0.567	2962.5	0.417
1478.	0.566	2963.	0.419
1478.5	0.566	2963.5	0.417
1479.	0.566	2964.	0.418
1479.5	0.566	2964.5	0.419
1480.	0.565	2965.	0.419
1480.5	0.565	2965.5	0.419
1481.	0.565	2966.	0.419
1481.5	0.565	2966.5	0.419
1482.	0.564	2967.	0.418
1482.5	0.566	2967.5	0.418
1483.	0.565	2968.	0.418
1483.5	0.565	2968.5	0.417
1484.	0.563	2969.	0.419
1484.5	0.566	2969.5	0.417
1485.	0.564	2970.	0.42
1485.5	0.565	2970.5	0.419
1486.	0.564	2971.	0.419

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.566

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	4.64E-6	cm/sec
y0	0.7797	ft

T = K*b = 0.004032 cm²/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	4.778E-6	1.283E-8	+/- 2.515E-8	372.3	cm/sec
y0	0.8111	0.0007202	+/- 0.001411	1126.3	ft

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 0.004152 cm²/sec

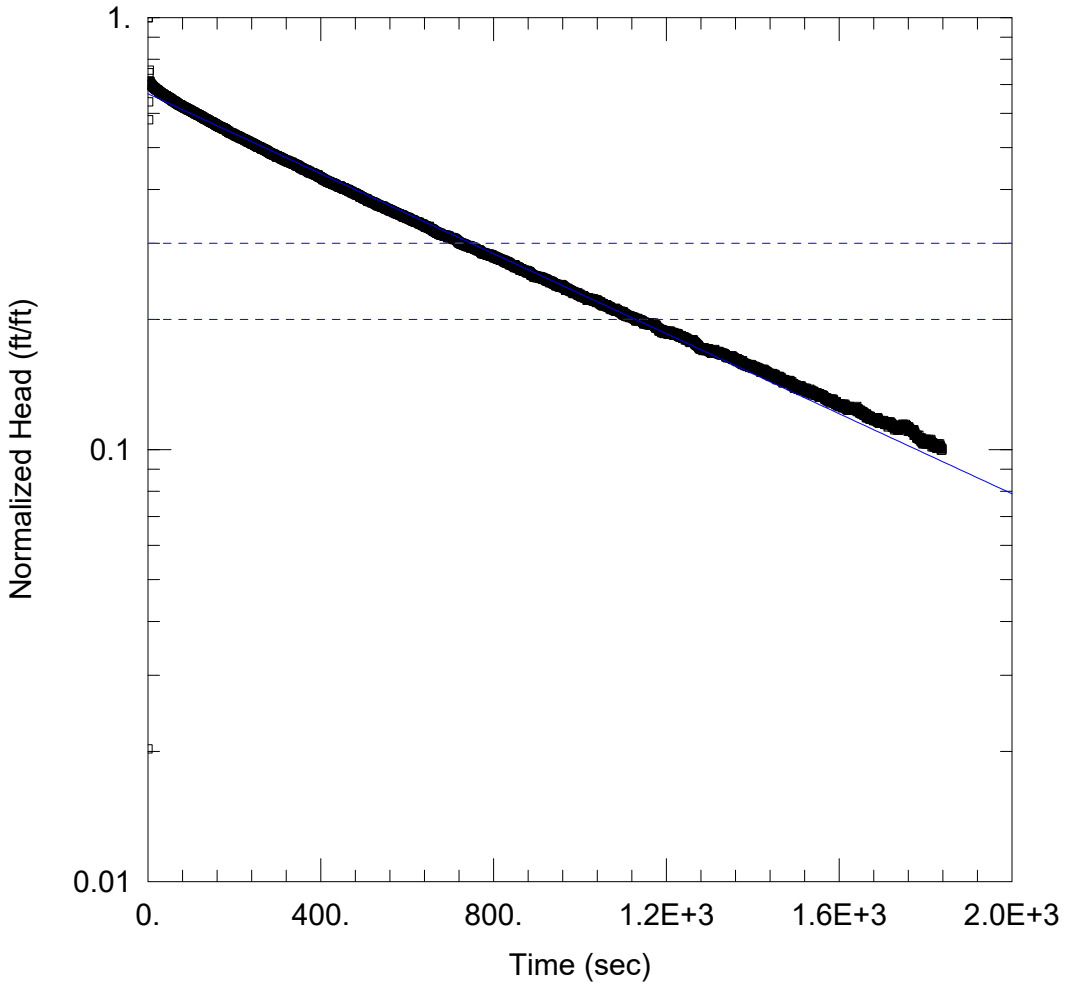
Parameter Correlations

	K	y0
K	1.00	0.82
y0	0.82	1.00

Residual Statistics

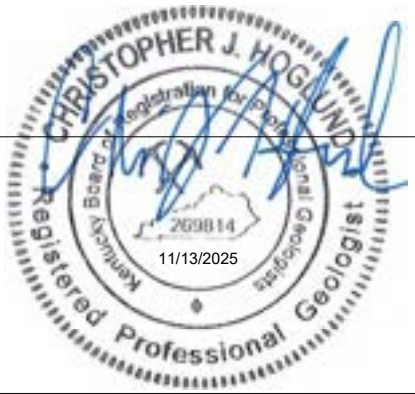
for weighted residuals

Sum of Squares . . . . . 3.3 ft^2
Variance . . . . . 0.0005558 ft^2
Std. Deviation . . . . . 0.02358 ft
Mean . . . . . 0.0001873 ft
No. of Residuals 5940
No. of Estimates 2



MW-110A RISING HEAD 01

Data Set: Z:\...\MW-110a Rising Head 01.aqt
Date: 10/06/25 Time: 16:50:41



PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-110a
Test Well: MW-110a
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 12.93 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-110a)

Initial Displacement: 1.233 ft
Total Well Penetration Depth: 12.98 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 12.98 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.52E-5 cm/sec y0 = 0.8216 ft

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-110a Rising Head 01
Date: 10/06/25
Time: 16:50:58

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-110a
Test Date: 9/18/25
Test Well: MW-110a

AQUIFER DATA

Saturated Thickness: 12.93 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-110a

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.233 ft
Static Water Column Height: 12.98 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 12.98 ft

No. of Observations: 3677

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.025	920.	0.304
1.	1.233	920.5	0.306
1.5	0.787	921.	0.304
2.	0.715	921.5	0.305
2.5	0.919	922.	0.303
3.	0.931	922.5	0.306
3.5	0.871	923.	0.304
4.	0.879	923.5	0.303
4.5	0.876	924.	0.302
5.	0.874	924.5	0.304
5.5	0.868	925.	0.303
6.	0.863	925.5	0.302
6.5	0.866	926.	0.302
7.	0.865	926.5	0.304
7.5	0.864	927.	0.302
8.	0.862	927.5	0.302
8.5	0.862	928.	0.302
9.	0.86	928.5	0.302
9.5	0.859	929.	0.301
10.	0.856	929.5	0.303
10.5	0.856	930.	0.3
11.	0.855	930.5	0.302
11.5	0.855	931.	0.302
12.	0.852	931.5	0.302
12.5	0.853	932.	0.3
13.	0.851	932.5	0.301
13.5	0.85	933.	0.302
14.	0.849	933.5	0.302
14.5	0.85	934.	0.3
15.	0.847	934.5	0.301
15.5	0.847	935.	0.301

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
16.	0.847	935.5	0.301
16.5	0.847	936.	0.3
17.	0.843	936.5	0.301
17.5	0.845	937.	0.299
18.	0.842	937.5	0.299
18.5	0.842	938.	0.298
19.	0.841	938.5	0.3
19.5	0.841	939.	0.3
20.	0.84	939.5	0.299
20.5	0.84	940.	0.298
21.	0.839	940.5	0.298
21.5	0.839	941.	0.298
22.	0.836	941.5	0.298
22.5	0.837	942.	0.298
23.	0.836	942.5	0.298
23.5	0.836	943.	0.296
24.	0.835	943.5	0.297
24.5	0.834	944.	0.296
25.	0.832	944.5	0.298
25.5	0.832	945.	0.295
26.	0.83	945.5	0.297
26.5	0.83	946.	0.295
27.	0.829	946.5	0.297
27.5	0.83	947.	0.297
28.	0.828	947.5	0.297
28.5	0.828	948.	0.296
29.	0.825	948.5	0.296
29.5	0.827	949.	0.296
30.	0.825	949.5	0.296
30.5	0.825	950.	0.294
31.	0.823	950.5	0.297
31.5	0.824	951.	0.295
32.	0.822	951.5	0.296
32.5	0.822	952.	0.294
33.	0.82	952.5	0.295
33.5	0.821	953.	0.293
34.	0.819	953.5	0.294
34.5	0.819	954.	0.293
35.	0.819	954.5	0.294
35.5	0.819	955.	0.294
36.	0.818	955.5	0.295
36.5	0.818	956.	0.294
37.	0.817	956.5	0.295
37.5	0.817	957.	0.293
38.	0.814	957.5	0.296
38.5	0.815	958.	0.294
39.	0.814	958.5	0.297
39.5	0.813	959.	0.293
40.	0.813	959.5	0.296
40.5	0.813	960.	0.292
41.	0.812	960.5	0.294
41.5	0.813	961.	0.293
42.	0.812	961.5	0.295
42.5	0.811	962.	0.292
43.	0.81	962.5	0.292
43.5	0.81	963.	0.293
44.	0.808	963.5	0.294
44.5	0.808	964.	0.292
45.	0.806	964.5	0.292
45.5	0.807	965.	0.291
46.	0.806	965.5	0.293
46.5	0.806	966.	0.29
47.	0.806	966.5	0.291
47.5	0.805	967.	0.288
48.	0.804	967.5	0.291
48.5	0.803	968.	0.289
49.	0.803	968.5	0.291

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
49.5	0.803	969.	0.289
50.	0.8	969.5	0.29
50.5	0.801	970.	0.288
51.	0.8	970.5	0.291
51.5	0.802	971.	0.288
52.	0.8	971.5	0.291
52.5	0.8	972.	0.289
53.	0.8	972.5	0.288
53.5	0.799	973.	0.288
54.	0.796	973.5	0.29
54.5	0.796	974.	0.289
55.	0.796	974.5	0.288
55.5	0.796	975.	0.287
56.	0.793	975.5	0.288
56.5	0.793	976.	0.288
57.	0.792	976.5	0.289
57.5	0.794	977.	0.288
58.	0.791	977.5	0.287
58.5	0.791	978.	0.287
59.	0.789	978.5	0.288
59.5	0.789	979.	0.286
60.	0.789	979.5	0.287
60.5	0.788	980.	0.287
61.	0.788	980.5	0.287
61.5	0.789	981.	0.286
62.	0.787	981.5	0.286
62.5	0.786	982.	0.286
63.	0.788	982.5	0.286
63.5	0.786	983.	0.286
64.	0.783	983.5	0.286
64.5	0.785	984.	0.283
65.	0.785	984.5	0.286
65.5	0.782	985.	0.286
66.	0.782	985.5	0.285
66.5	0.782	986.	0.285
67.	0.781	986.5	0.285
67.5	0.781	987.	0.284
68.	0.779	987.5	0.284
68.5	0.78	988.	0.284
69.	0.779	988.5	0.285
69.5	0.779	989.	0.283
70.	0.777	989.5	0.284
70.5	0.777	990.	0.284
71.	0.776	990.5	0.284
71.5	0.776	991.	0.284
72.	0.773	991.5	0.283
72.5	0.775	992.	0.283
73.	0.775	992.5	0.284
73.5	0.774	993.	0.283
74.	0.772	993.5	0.283
74.5	0.774	994.	0.284
75.	0.772	994.5	0.282
75.5	0.774	995.	0.284
76.	0.771	995.5	0.282
76.5	0.773	996.	0.281
77.	0.771	996.5	0.282
77.5	0.771	997.	0.281
78.	0.769	997.5	0.282
78.5	0.77	998.	0.281
79.	0.769	998.5	0.281
79.5	0.77	999.	0.281
80.	0.767	999.5	0.281
80.5	0.767	1000.	0.28
81.	0.767	1000.5	0.282
81.5	0.767	1001.	0.279
82.	0.765	1001.5	0.279
82.5	0.767	1002.	0.28

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
83.	0.764	1002.5	0.281
83.5	0.765	1003.	0.279
84.	0.764	1003.5	0.28
84.5	0.764	1004.	0.278
85.	0.762	1004.5	0.279
85.5	0.762	1005.	0.28
86.	0.762	1005.5	0.28
86.5	0.762	1006.	0.279
87.	0.762	1006.5	0.279
87.5	0.762	1007.	0.28
88.	0.761	1007.5	0.279
88.5	0.76	1008.	0.278
89.	0.759	1008.5	0.28
89.5	0.76	1009.	0.278
90.	0.758	1009.5	0.278
90.5	0.758	1010.	0.277
91.	0.757	1010.5	0.278
91.5	0.758	1011.	0.278
92.	0.756	1011.5	0.278
92.5	0.756	1012.	0.276
93.	0.754	1012.5	0.277
93.5	0.756	1013.	0.276
94.	0.754	1013.5	0.276
94.5	0.755	1014.	0.277
95.	0.754	1014.5	0.277
95.5	0.755	1015.	0.277
96.	0.754	1015.5	0.276
96.5	0.754	1016.	0.276
97.	0.753	1016.5	0.276
97.5	0.753	1017.	0.273
98.	0.75	1017.5	0.275
98.5	0.752	1018.	0.275
99.	0.751	1018.5	0.275
99.5	0.75	1019.	0.275
100.	0.749	1019.5	0.277
100.5	0.749	1020.	0.273
101.	0.749	1020.5	0.276
101.5	0.748	1021.	0.274
102.	0.747	1021.5	0.275
102.5	0.747	1022.	0.275
103.	0.746	1022.5	0.275
103.5	0.746	1023.	0.273
104.	0.744	1023.5	0.273
104.5	0.746	1024.	0.275
105.	0.744	1024.5	0.276
105.5	0.743	1025.	0.273
106.	0.744	1025.5	0.275
106.5	0.744	1026.	0.274
107.	0.743	1026.5	0.275
107.5	0.743	1027.	0.273
108.	0.742	1027.5	0.275
108.5	0.742	1028.	0.274
109.	0.739	1028.5	0.274
109.5	0.741	1029.	0.274
110.	0.74	1029.5	0.274
110.5	0.74	1030.	0.273
111.	0.739	1030.5	0.275
111.5	0.739	1031.	0.272
112.	0.737	1031.5	0.275
112.5	0.738	1032.	0.273
113.	0.737	1032.5	0.274
113.5	0.737	1033.	0.272
114.	0.737	1033.5	0.274
114.5	0.736	1034.	0.273
115.	0.736	1034.5	0.274
115.5	0.734	1035.	0.272
116.	0.734	1035.5	0.273

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
116.5	0.735	1036.	0.273
117.	0.733	1036.5	0.274
117.5	0.734	1037.	0.272
118.	0.733	1037.5	0.273
118.5	0.733	1038.	0.27
119.	0.732	1038.5	0.271
119.5	0.732	1039.	0.273
120.	0.731	1039.5	0.273
120.5	0.731	1040.	0.272
121.	0.73	1040.5	0.273
121.5	0.73	1041.	0.272
122.	0.729	1041.5	0.272
122.5	0.728	1042.	0.271
123.	0.728	1042.5	0.27
123.5	0.728	1043.	0.27
124.	0.727	1043.5	0.272
124.5	0.727	1044.	0.27
125.	0.725	1044.5	0.27
125.5	0.727	1045.	0.271
126.	0.725	1045.5	0.269
126.5	0.725	1046.	0.268
127.	0.725	1046.5	0.27
127.5	0.724	1047.	0.268
128.	0.722	1047.5	0.271
128.5	0.724	1048.	0.268
129.	0.722	1048.5	0.269
129.5	0.723	1049.	0.267
130.	0.72	1049.5	0.268
130.5	0.721	1050.	0.267
131.	0.72	1050.5	0.269
131.5	0.72	1051.	0.267
132.	0.719	1051.5	0.267
132.5	0.719	1052.	0.266
133.	0.717	1052.5	0.268
133.5	0.719	1053.	0.266
134.	0.717	1053.5	0.268
134.5	0.718	1054.	0.265
135.	0.716	1054.5	0.268
135.5	0.716	1055.	0.266
136.	0.716	1055.5	0.267
136.5	0.716	1056.	0.267
137.	0.715	1056.5	0.267
137.5	0.716	1057.	0.266
138.	0.715	1057.5	0.266
138.5	0.713	1058.	0.266
139.	0.713	1058.5	0.266
139.5	0.714	1059.	0.265
140.	0.712	1059.5	0.267
140.5	0.713	1060.	0.266
141.	0.711	1060.5	0.266
141.5	0.711	1061.	0.266
142.	0.709	1061.5	0.267
142.5	0.711	1062.	0.264
143.	0.709	1062.5	0.266
143.5	0.709	1063.	0.264
144.	0.708	1063.5	0.265
144.5	0.708	1064.	0.264
145.	0.707	1064.5	0.265
145.5	0.707	1065.	0.265
146.	0.707	1065.5	0.264
146.5	0.708	1066.	0.264
147.	0.707	1066.5	0.263
147.5	0.706	1067.	0.263
148.	0.704	1067.5	0.264
148.5	0.706	1068.	0.263
149.	0.704	1068.5	0.264
149.5	0.705	1069.	0.263

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
150.	0.703	1069.5	0.264
150.5	0.703	1070.	0.261
151.	0.703	1070.5	0.262
151.5	0.703	1071.	0.262
152.	0.702	1071.5	0.263
152.5	0.703	1072.	0.261
153.	0.7	1072.5	0.262
153.5	0.701	1073.	0.26
154.	0.7	1073.5	0.261
154.5	0.701	1074.	0.261
155.	0.699	1074.5	0.261
155.5	0.699	1075.	0.261
156.	0.697	1075.5	0.261
156.5	0.698	1076.	0.26
157.	0.698	1076.5	0.261
157.5	0.698	1077.	0.261
158.	0.695	1077.5	0.261
158.5	0.695	1078.	0.259
159.	0.694	1078.5	0.261
159.5	0.694	1079.	0.26
160.	0.692	1079.5	0.259
160.5	0.694	1080.	0.26
161.	0.693	1080.5	0.261
161.5	0.693	1081.	0.26
162.	0.691	1081.5	0.261
162.5	0.691	1082.	0.258
163.	0.691	1082.5	0.262
163.5	0.691	1083.	0.26
164.	0.69	1083.5	0.26
164.5	0.691	1084.	0.258
165.	0.69	1084.5	0.26
165.5	0.688	1085.	0.258
166.	0.688	1085.5	0.258
166.5	0.688	1086.	0.259
167.	0.687	1086.5	0.26
167.5	0.688	1087.	0.259
168.	0.686	1087.5	0.258
168.5	0.688	1088.	0.258
169.	0.687	1088.5	0.258
169.5	0.688	1089.	0.258
170.	0.685	1089.5	0.258
170.5	0.686	1090.	0.258
171.	0.685	1090.5	0.258
171.5	0.685	1091.	0.257
172.	0.684	1091.5	0.257
172.5	0.685	1092.	0.257
173.	0.684	1092.5	0.257
173.5	0.682	1093.	0.257
174.	0.684	1093.5	0.257
174.5	0.685	1094.	0.256
175.	0.684	1094.5	0.258
175.5	0.68	1095.	0.257
176.	0.682	1095.5	0.255
176.5	0.681	1096.	0.256
177.	0.68	1096.5	0.257
177.5	0.681	1097.	0.256
178.	0.68	1097.5	0.255
178.5	0.681	1098.	0.254
179.	0.68	1098.5	0.255
179.5	0.679	1099.	0.253
180.	0.679	1099.5	0.256
180.5	0.678	1100.	0.254
181.	0.677	1100.5	0.257
181.5	0.677	1101.	0.254
182.	0.676	1101.5	0.254
182.5	0.676	1102.	0.252
183.	0.674	1102.5	0.255

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
183.5	0.674	1103.	0.252
184.	0.672	1103.5	0.254
184.5	0.674	1104.	0.253
185.	0.672	1104.5	0.254
185.5	0.672	1105.	0.253
186.	0.672	1105.5	0.253
186.5	0.671	1106.	0.251
187.	0.669	1106.5	0.254
187.5	0.669	1107.	0.253
188.	0.669	1107.5	0.252
188.5	0.669	1108.	0.251
189.	0.668	1108.5	0.252
189.5	0.668	1109.	0.251
190.	0.668	1109.5	0.252
190.5	0.667	1110.	0.251
191.	0.667	1110.5	0.251
191.5	0.667	1111.	0.25
192.	0.666	1111.5	0.252
192.5	0.666	1112.	0.251
193.	0.665	1112.5	0.251
193.5	0.665	1113.	0.251
194.	0.664	1113.5	0.251
194.5	0.665	1114.	0.251
195.	0.664	1114.5	0.251
195.5	0.664	1115.	0.251
196.	0.664	1115.5	0.249
196.5	0.664	1116.	0.25
197.	0.662	1116.5	0.251
197.5	0.663	1117.	0.25
198.	0.661	1117.5	0.251
198.5	0.661	1118.	0.249
199.	0.661	1118.5	0.25
199.5	0.662	1119.	0.249
200.	0.66	1119.5	0.25
200.5	0.661	1120.	0.25
201.	0.66	1120.5	0.25
201.5	0.66	1121.	0.249
202.	0.658	1121.5	0.249
202.5	0.659	1122.	0.249
203.	0.657	1122.5	0.25
203.5	0.658	1123.	0.248
204.	0.657	1123.5	0.249
204.5	0.658	1124.	0.248
205.	0.656	1124.5	0.249
205.5	0.657	1125.	0.248
206.	0.655	1125.5	0.248
206.5	0.656	1126.	0.247
207.	0.656	1126.5	0.249
207.5	0.656	1127.	0.247
208.	0.653	1127.5	0.247
208.5	0.655	1128.	0.248
209.	0.653	1128.5	0.247
209.5	0.654	1129.	0.245
210.	0.653	1129.5	0.248
210.5	0.653	1130.	0.245
211.	0.653	1130.5	0.248
211.5	0.652	1131.	0.246
212.	0.65	1131.5	0.246
212.5	0.652	1132.	0.245
213.	0.651	1132.5	0.246
213.5	0.651	1133.	0.246
214.	0.649	1133.5	0.246
214.5	0.651	1134.	0.245
215.	0.65	1134.5	0.248
215.5	0.648	1135.	0.245
216.	0.648	1135.5	0.246
216.5	0.648	1136.	0.246

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
217.	0.647	1136.5	0.246
217.5	0.648	1137.	0.246
218.	0.646	1137.5	0.246
218.5	0.648	1138.	0.245
219.	0.646	1138.5	0.246
219.5	0.646	1139.	0.246
220.	0.646	1139.5	0.245
220.5	0.646	1140.	0.245
221.	0.645	1140.5	0.246
221.5	0.644	1141.	0.244
222.	0.645	1141.5	0.246
222.5	0.644	1142.	0.244
223.	0.643	1142.5	0.245
223.5	0.643	1143.	0.244
224.	0.642	1143.5	0.244
224.5	0.643	1144.	0.245
225.	0.642	1144.5	0.244
225.5	0.643	1145.	0.244
226.	0.642	1145.5	0.244
226.5	0.641	1146.	0.243
227.	0.64	1146.5	0.243
227.5	0.641	1147.	0.242
228.	0.639	1147.5	0.242
228.5	0.64	1148.	0.241
229.	0.639	1148.5	0.243
229.5	0.64	1149.	0.242
230.	0.639	1149.5	0.243
230.5	0.639	1150.	0.242
231.	0.636	1150.5	0.243
231.5	0.639	1151.	0.241
232.	0.638	1151.5	0.242
232.5	0.637	1152.	0.241
233.	0.636	1152.5	0.242
233.5	0.636	1153.	0.241
234.	0.635	1153.5	0.241
234.5	0.636	1154.	0.242
235.	0.634	1154.5	0.242
235.5	0.636	1155.	0.242
236.	0.634	1155.5	0.241
236.5	0.633	1156.	0.24
237.	0.632	1156.5	0.241
237.5	0.632	1157.	0.241
238.	0.631	1157.5	0.241
238.5	0.633	1158.	0.24
239.	0.631	1158.5	0.24
239.5	0.632	1159.	0.241
240.	0.629	1159.5	0.241
240.5	0.632	1160.	0.24
241.	0.628	1160.5	0.241
241.5	0.631	1161.	0.24
242.	0.629	1161.5	0.241
242.5	0.628	1162.	0.24
243.	0.629	1162.5	0.24
243.5	0.628	1163.	0.24
244.	0.627	1163.5	0.24
244.5	0.629	1164.	0.24
245.	0.627	1164.5	0.24
245.5	0.627	1165.	0.24
246.	0.626	1165.5	0.241
246.5	0.627	1166.	0.239
247.	0.625	1166.5	0.242
247.5	0.625	1167.	0.24
248.	0.624	1167.5	0.241
248.5	0.626	1168.	0.24
249.	0.625	1168.5	0.241
249.5	0.625	1169.	0.239
250.	0.622	1169.5	0.241

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
250.5	0.624	1170.	0.24
251.	0.623	1170.5	0.242
251.5	0.623	1171.	0.239
252.	0.622	1171.5	0.239
252.5	0.622	1172.	0.239
253.	0.62	1172.5	0.239
253.5	0.622	1173.	0.24
254.	0.619	1173.5	0.238
254.5	0.621	1174.	0.238
255.	0.618	1174.5	0.239
255.5	0.62	1175.	0.236
256.	0.618	1175.5	0.239
256.5	0.62	1176.	0.236
257.	0.617	1176.5	0.239
257.5	0.619	1177.	0.236
258.	0.617	1177.5	0.236
258.5	0.617	1178.	0.237
259.	0.617	1178.5	0.237
259.5	0.618	1179.	0.236
260.	0.615	1179.5	0.236
260.5	0.616	1180.	0.236
261.	0.615	1180.5	0.235
261.5	0.616	1181.	0.235
262.	0.614	1181.5	0.235
262.5	0.614	1182.	0.234
263.	0.615	1182.5	0.234
263.5	0.612	1183.	0.232
264.	0.611	1183.5	0.235
264.5	0.614	1184.	0.232
265.	0.612	1184.5	0.234
265.5	0.612	1185.	0.233
266.	0.611	1185.5	0.234
266.5	0.612	1186.	0.232
267.	0.611	1186.5	0.234
267.5	0.611	1187.	0.233
268.	0.612	1187.5	0.233
268.5	0.611	1188.	0.232
269.	0.609	1188.5	0.233
269.5	0.611	1189.	0.23
270.	0.609	1189.5	0.232
270.5	0.608	1190.	0.231
271.	0.609	1190.5	0.233
271.5	0.609	1191.	0.23
272.	0.608	1191.5	0.232
272.5	0.608	1192.	0.23
273.	0.608	1192.5	0.233
273.5	0.608	1193.	0.231
274.	0.606	1193.5	0.231
274.5	0.607	1194.	0.23
275.	0.606	1194.5	0.232
275.5	0.605	1195.	0.229
276.	0.604	1195.5	0.231
276.5	0.605	1196.	0.231
277.	0.604	1196.5	0.232
277.5	0.605	1197.	0.231
278.	0.604	1197.5	0.23
278.5	0.603	1198.	0.23
279.	0.602	1198.5	0.232
279.5	0.602	1199.	0.23
280.	0.601	1199.5	0.231
280.5	0.602	1200.	0.23
281.	0.6	1200.5	0.232
281.5	0.6	1201.	0.23
282.	0.599	1201.5	0.231
282.5	0.6	1202.	0.229
283.	0.599	1202.5	0.231
283.5	0.6	1203.	0.229

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
284.	0.598	1203.5	0.231
284.5	0.599	1204.	0.228
285.	0.596	1204.5	0.23
285.5	0.597	1205.	0.229
286.	0.598	1205.5	0.23
286.5	0.597	1206.	0.23
287.	0.596	1206.5	0.231
287.5	0.597	1207.	0.228
288.	0.596	1207.5	0.23
288.5	0.596	1208.	0.229
289.	0.594	1208.5	0.232
289.5	0.595	1209.	0.229
290.	0.594	1209.5	0.23
290.5	0.595	1210.	0.23
291.	0.593	1210.5	0.231
291.5	0.596	1211.	0.228
292.	0.593	1211.5	0.229
292.5	0.593	1212.	0.228
293.	0.592	1212.5	0.229
293.5	0.592	1213.	0.228
294.	0.592	1213.5	0.23
294.5	0.592	1214.	0.228
295.	0.591	1214.5	0.23
295.5	0.592	1215.	0.229
296.	0.59	1215.5	0.228
296.5	0.591	1216.	0.228
297.	0.59	1216.5	0.229
297.5	0.589	1217.	0.227
298.	0.586	1217.5	0.23
298.5	0.591	1218.	0.227
299.	0.589	1218.5	0.229
299.5	0.59	1219.	0.228
300.	0.588	1219.5	0.229
300.5	0.59	1220.	0.227
301.	0.587	1220.5	0.229
301.5	0.587	1221.	0.227
302.	0.587	1221.5	0.228
302.5	0.587	1222.	0.228
303.	0.586	1222.5	0.228
303.5	0.586	1223.	0.227
304.	0.586	1223.5	0.229
304.5	0.586	1224.	0.227
305.	0.586	1224.5	0.229
305.5	0.587	1225.	0.227
306.	0.583	1225.5	0.228
306.5	0.585	1226.	0.227
307.	0.584	1226.5	0.228
307.5	0.584	1227.	0.226
308.	0.582	1227.5	0.226
308.5	0.584	1228.	0.226
309.	0.581	1228.5	0.228
309.5	0.583	1229.	0.226
310.	0.583	1229.5	0.226
310.5	0.581	1230.	0.225
311.	0.581	1230.5	0.226
311.5	0.582	1231.	0.225
312.	0.581	1231.5	0.226
312.5	0.581	1232.	0.225
313.	0.579	1232.5	0.226
313.5	0.58	1233.	0.225
314.	0.58	1233.5	0.226
314.5	0.58	1234.	0.224
315.	0.577	1234.5	0.225
315.5	0.578	1235.	0.224
316.	0.577	1235.5	0.226
316.5	0.577	1236.	0.224
317.	0.576	1236.5	0.225

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
317.5	0.576	1237.	0.225
318.	0.575	1237.5	0.224
318.5	0.576	1238.	0.223
319.	0.576	1238.5	0.224
319.5	0.576	1239.	0.224
320.	0.576	1239.5	0.224
320.5	0.576	1240.	0.223
321.	0.573	1240.5	0.224
321.5	0.574	1241.	0.225
322.	0.573	1241.5	0.224
322.5	0.576	1242.	0.223
323.	0.572	1242.5	0.223
323.5	0.574	1243.	0.223
324.	0.573	1243.5	0.223
324.5	0.572	1244.	0.221
325.	0.571	1244.5	0.223
325.5	0.573	1245.	0.222
326.	0.571	1245.5	0.223
326.5	0.573	1246.	0.222
327.	0.572	1246.5	0.223
327.5	0.573	1247.	0.222
328.	0.57	1247.5	0.223
328.5	0.572	1248.	0.221
329.	0.57	1248.5	0.221
329.5	0.569	1249.	0.221
330.	0.569	1249.5	0.221
330.5	0.569	1250.	0.221
331.	0.568	1250.5	0.222
331.5	0.57	1251.	0.221
332.	0.569	1251.5	0.221
332.5	0.57	1252.	0.22
333.	0.568	1252.5	0.221
333.5	0.57	1253.	0.221
334.	0.567	1253.5	0.22
334.5	0.567	1254.	0.219
335.	0.566	1254.5	0.221
335.5	0.567	1255.	0.218
336.	0.565	1255.5	0.221
336.5	0.567	1256.	0.22
337.	0.564	1256.5	0.22
337.5	0.566	1257.	0.219
338.	0.564	1257.5	0.22
338.5	0.565	1258.	0.221
339.	0.564	1258.5	0.219
339.5	0.565	1259.	0.22
340.	0.563	1259.5	0.221
340.5	0.564	1260.	0.219
341.	0.563	1260.5	0.219
341.5	0.563	1261.	0.221
342.	0.562	1261.5	0.219
342.5	0.563	1262.	0.22
343.	0.562	1262.5	0.221
343.5	0.561	1263.	0.22
344.	0.559	1263.5	0.219
344.5	0.561	1264.	0.219
345.	0.559	1264.5	0.219
345.5	0.561	1265.	0.218
346.	0.559	1265.5	0.217
346.5	0.561	1266.	0.217
347.	0.559	1266.5	0.218
347.5	0.559	1267.	0.216
348.	0.558	1267.5	0.218
348.5	0.56	1268.	0.216
349.	0.558	1268.5	0.216
349.5	0.557	1269.	0.215
350.	0.557	1269.5	0.217
350.5	0.557	1270.	0.216

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
351.	0.556	1270.5	0.215
351.5	0.555	1271.	0.216
352.	0.555	1271.5	0.216
352.5	0.556	1272.	0.214
353.	0.554	1272.5	0.215
353.5	0.555	1273.	0.214
354.	0.554	1273.5	0.214
354.5	0.554	1274.	0.214
355.	0.553	1274.5	0.215
355.5	0.553	1275.	0.213
356.	0.552	1275.5	0.213
356.5	0.552	1276.	0.212
357.	0.551	1276.5	0.212
357.5	0.553	1277.	0.213
358.	0.55	1277.5	0.211
358.5	0.552	1278.	0.212
359.	0.551	1278.5	0.212
359.5	0.551	1279.	0.212
360.	0.549	1279.5	0.211
360.5	0.548	1280.	0.211
361.	0.548	1280.5	0.211
361.5	0.55	1281.	0.211
362.	0.548	1281.5	0.211
362.5	0.549	1282.	0.211
363.	0.547	1282.5	0.212
363.5	0.548	1283.	0.21
364.	0.546	1283.5	0.212
364.5	0.548	1284.	0.21
365.	0.547	1284.5	0.212
365.5	0.547	1285.	0.209
366.	0.546	1285.5	0.211
366.5	0.547	1286.	0.21
367.	0.546	1286.5	0.212
367.5	0.546	1287.	0.21
368.	0.545	1287.5	0.211
368.5	0.544	1288.	0.21
369.	0.544	1288.5	0.212
369.5	0.546	1289.	0.21
370.	0.542	1289.5	0.211
370.5	0.544	1290.	0.209
371.	0.543	1290.5	0.21
371.5	0.542	1291.	0.21
372.	0.541	1291.5	0.21
372.5	0.542	1292.	0.209
373.	0.54	1292.5	0.209
373.5	0.543	1293.	0.21
374.	0.54	1293.5	0.21
374.5	0.542	1294.	0.209
375.	0.54	1294.5	0.211
375.5	0.541	1295.	0.209
376.	0.54	1295.5	0.21
376.5	0.54	1296.	0.209
377.	0.539	1296.5	0.211
377.5	0.539	1297.	0.209
378.	0.538	1297.5	0.209
378.5	0.539	1298.	0.209
379.	0.538	1298.5	0.211
379.5	0.539	1299.	0.208
380.	0.538	1299.5	0.21
380.5	0.539	1300.	0.208
381.	0.537	1300.5	0.209
381.5	0.537	1301.	0.208
382.	0.536	1301.5	0.208
382.5	0.538	1302.	0.207
383.	0.537	1302.5	0.209
383.5	0.537	1303.	0.208
384.	0.535	1303.5	0.208

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
384.5	0.537	1304.	0.208
385.	0.534	1304.5	0.208
385.5	0.536	1305.	0.206
386.	0.534	1305.5	0.209
386.5	0.536	1306.	0.208
387.	0.534	1306.5	0.208
387.5	0.534	1307.	0.208
388.	0.534	1307.5	0.209
388.5	0.533	1308.	0.207
389.	0.532	1308.5	0.208
389.5	0.533	1309.	0.208
390.	0.533	1309.5	0.209
390.5	0.532	1310.	0.208
391.	0.532	1310.5	0.209
391.5	0.532	1311.	0.207
392.	0.532	1311.5	0.208
392.5	0.532	1312.	0.207
393.	0.53	1312.5	0.21
393.5	0.531	1313.	0.207
394.	0.529	1313.5	0.207
394.5	0.532	1314.	0.207
395.	0.529	1314.5	0.208
395.5	0.531	1315.	0.207
396.	0.528	1315.5	0.206
396.5	0.528	1316.	0.206
397.	0.527	1316.5	0.208
397.5	0.527	1317.	0.207
398.	0.527	1317.5	0.207
398.5	0.527	1318.	0.206
399.	0.526	1318.5	0.207
399.5	0.527	1319.	0.206
400.	0.525	1319.5	0.207
400.5	0.526	1320.	0.206
401.	0.525	1320.5	0.207
401.5	0.524	1321.	0.207
402.	0.525	1321.5	0.208
402.5	0.524	1322.	0.205
403.	0.524	1322.5	0.205
403.5	0.523	1323.	0.206
404.	0.522	1323.5	0.207
404.5	0.521	1324.	0.205
405.	0.52	1324.5	0.206
405.5	0.522	1325.	0.205
406.	0.52	1325.5	0.206
406.5	0.521	1326.	0.204
407.	0.52	1326.5	0.207
407.5	0.521	1327.	0.205
408.	0.52	1327.5	0.205
408.5	0.52	1328.	0.205
409.	0.517	1328.5	0.204
409.5	0.52	1329.	0.205
410.	0.518	1329.5	0.206
410.5	0.518	1330.	0.205
411.	0.517	1330.5	0.206
411.5	0.518	1331.	0.205
412.	0.517	1331.5	0.206
412.5	0.518	1332.	0.204
413.	0.516	1332.5	0.206
413.5	0.517	1333.	0.204
414.	0.516	1333.5	0.204
414.5	0.516	1334.	0.204
415.	0.514	1334.5	0.205
415.5	0.516	1335.	0.204
416.	0.513	1335.5	0.205
416.5	0.515	1336.	0.204
417.	0.514	1336.5	0.204
417.5	0.513	1337.	0.204

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
418.	0.513	1337.5	0.203
418.5	0.513	1338.	0.202
419.	0.512	1338.5	0.203
419.5	0.513	1339.	0.203
420.	0.511	1339.5	0.202
420.5	0.514	1340.	0.202
421.	0.512	1340.5	0.203
421.5	0.512	1341.	0.202
422.	0.511	1341.5	0.203
422.5	0.513	1342.	0.201
423.	0.51	1342.5	0.202
423.5	0.511	1343.	0.202
424.	0.51	1343.5	0.203
424.5	0.511	1344.	0.202
425.	0.509	1344.5	0.203
425.5	0.51	1345.	0.202
426.	0.511	1345.5	0.202
426.5	0.51	1346.	0.201
427.	0.508	1346.5	0.203
427.5	0.509	1347.	0.202
428.	0.507	1347.5	0.202
428.5	0.51	1348.	0.202
429.	0.507	1348.5	0.202
429.5	0.509	1349.	0.201
430.	0.507	1349.5	0.202
430.5	0.508	1350.	0.201
431.	0.507	1350.5	0.202
431.5	0.507	1351.	0.202
432.	0.506	1351.5	0.203
432.5	0.508	1352.	0.2
433.	0.507	1352.5	0.203
433.5	0.507	1353.	0.2
434.	0.506	1353.5	0.2
434.5	0.507	1354.	0.2
435.	0.504	1354.5	0.201
435.5	0.504	1355.	0.2
436.	0.504	1355.5	0.202
436.5	0.504	1356.	0.2
437.	0.504	1356.5	0.2
437.5	0.504	1357.	0.199
438.	0.502	1357.5	0.2
438.5	0.503	1358.	0.2
439.	0.503	1358.5	0.201
439.5	0.503	1359.	0.2
440.	0.502	1359.5	0.199
440.5	0.502	1360.	0.199
441.	0.501	1360.5	0.2
441.5	0.502	1361.	0.198
442.	0.5	1361.5	0.198
442.5	0.501	1362.	0.2
443.	0.5	1362.5	0.2
443.5	0.502	1363.	0.2
444.	0.5	1363.5	0.199
444.5	0.502	1364.	0.199
445.	0.499	1364.5	0.2
445.5	0.502	1365.	0.197
446.	0.5	1365.5	0.199
446.5	0.499	1366.	0.199
447.	0.498	1366.5	0.199
447.5	0.5	1367.	0.199
448.	0.499	1367.5	0.199
448.5	0.5	1368.	0.197
449.	0.497	1368.5	0.199
449.5	0.497	1369.	0.198
450.	0.497	1369.5	0.198
450.5	0.498	1370.	0.197
451.	0.497	1370.5	0.196

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
451.5	0.497	1371.	0.196
452.	0.495	1371.5	0.198
452.5	0.497	1372.	0.196
453.	0.495	1372.5	0.198
453.5	0.496	1373.	0.197
454.	0.494	1373.5	0.196
454.5	0.497	1374.	0.195
455.	0.495	1374.5	0.197
455.5	0.497	1375.	0.196
456.	0.495	1375.5	0.197
456.5	0.494	1376.	0.194
457.	0.494	1376.5	0.198
457.5	0.494	1377.	0.195
458.	0.494	1377.5	0.196
458.5	0.494	1378.	0.195
459.	0.493	1378.5	0.196
459.5	0.493	1379.	0.195
460.	0.492	1379.5	0.196
460.5	0.494	1380.	0.195
461.	0.491	1380.5	0.195
461.5	0.492	1381.	0.195
462.	0.492	1381.5	0.195
462.5	0.493	1382.	0.193
463.	0.491	1382.5	0.195
463.5	0.493	1383.	0.195
464.	0.491	1383.5	0.195
464.5	0.491	1384.	0.193
465.	0.489	1384.5	0.195
465.5	0.491	1385.	0.193
466.	0.488	1385.5	0.194
466.5	0.489	1386.	0.193
467.	0.488	1386.5	0.193
467.5	0.49	1387.	0.194
468.	0.488	1387.5	0.192
468.5	0.488	1388.	0.193
469.	0.488	1388.5	0.193
469.5	0.488	1389.	0.194
470.	0.487	1389.5	0.194
470.5	0.488	1390.	0.193
471.	0.486	1390.5	0.194
471.5	0.487	1391.	0.193
472.	0.485	1391.5	0.193
472.5	0.488	1392.	0.193
473.	0.486	1392.5	0.193
473.5	0.486	1393.	0.191
474.	0.484	1393.5	0.193
474.5	0.485	1394.	0.193
475.	0.485	1394.5	0.192
475.5	0.484	1395.	0.192
476.	0.484	1395.5	0.192
476.5	0.484	1396.	0.191
477.	0.482	1396.5	0.194
477.5	0.485	1397.	0.191
478.	0.482	1397.5	0.193
478.5	0.485	1398.	0.191
479.	0.483	1398.5	0.193
479.5	0.484	1399.	0.191
480.	0.481	1399.5	0.193
480.5	0.481	1400.	0.19
481.	0.48	1400.5	0.192
481.5	0.481	1401.	0.191
482.	0.481	1401.5	0.192
482.5	0.481	1402.	0.191
483.	0.48	1402.5	0.191
483.5	0.482	1403.	0.191
484.	0.479	1403.5	0.192
484.5	0.48	1404.	0.191

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
485.	0.478	1404.5	0.19
485.5	0.479	1405.	0.19
486.	0.479	1405.5	0.192
486.5	0.479	1406.	0.19
487.	0.478	1406.5	0.191
487.5	0.479	1407.	0.19
488.	0.478	1407.5	0.191
488.5	0.478	1408.	0.19
489.	0.477	1408.5	0.191
489.5	0.477	1409.	0.19
490.	0.475	1409.5	0.19
490.5	0.477	1410.	0.189
491.	0.474	1410.5	0.191
491.5	0.476	1411.	0.19
492.	0.474	1411.5	0.19
492.5	0.476	1412.	0.189
493.	0.473	1412.5	0.19
493.5	0.474	1413.	0.189
494.	0.474	1413.5	0.19
494.5	0.474	1414.	0.189
495.	0.473	1414.5	0.19
495.5	0.473	1415.	0.19
496.	0.472	1415.5	0.189
496.5	0.473	1416.	0.188
497.	0.472	1416.5	0.189
497.5	0.472	1417.	0.188
498.	0.471	1417.5	0.188
498.5	0.471	1418.	0.188
499.	0.47	1418.5	0.189
499.5	0.47	1419.	0.186
500.	0.469	1419.5	0.188
500.5	0.471	1420.	0.187
501.	0.469	1420.5	0.188
501.5	0.47	1421.	0.186
502.	0.469	1421.5	0.188
502.5	0.47	1422.	0.186
503.	0.468	1422.5	0.187
503.5	0.47	1423.	0.188
504.	0.468	1423.5	0.189
504.5	0.468	1424.	0.186
505.	0.469	1424.5	0.187
505.5	0.468	1425.	0.188
506.	0.466	1425.5	0.187
506.5	0.469	1426.	0.186
507.	0.467	1426.5	0.189
507.5	0.468	1427.	0.186
508.	0.466	1427.5	0.187
508.5	0.467	1428.	0.186
509.	0.464	1428.5	0.188
509.5	0.464	1429.	0.187
510.	0.465	1429.5	0.186
510.5	0.465	1430.	0.187
511.	0.465	1430.5	0.187
511.5	0.463	1431.	0.185
512.	0.463	1431.5	0.187
512.5	0.464	1432.	0.185
513.	0.462	1432.5	0.186
513.5	0.463	1433.	0.184
514.	0.463	1433.5	0.186
514.5	0.463	1434.	0.185
515.	0.463	1434.5	0.186
515.5	0.463	1435.	0.186
516.	0.462	1435.5	0.185
516.5	0.463	1436.	0.184
517.	0.461	1436.5	0.185
517.5	0.462	1437.	0.184
518.	0.461	1437.5	0.185

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
518.5	0.46	1438.	0.184
519.	0.46	1438.5	0.185
519.5	0.461	1439.	0.183
520.	0.46	1439.5	0.185
520.5	0.461	1440.	0.185
521.	0.46	1440.5	0.184
521.5	0.461	1441.	0.182
522.	0.459	1441.5	0.184
522.5	0.459	1442.	0.183
523.	0.459	1442.5	0.184
523.5	0.459	1443.	0.183
524.	0.459	1443.5	0.183
524.5	0.457	1444.	0.183
525.	0.457	1444.5	0.183
525.5	0.458	1445.	0.182
526.	0.458	1445.5	0.183
526.5	0.458	1446.	0.182
527.	0.456	1446.5	0.185
527.5	0.457	1447.	0.183
528.	0.456	1447.5	0.184
528.5	0.457	1448.	0.182
529.	0.454	1448.5	0.184
529.5	0.455	1449.	0.182
530.	0.454	1449.5	0.183
530.5	0.456	1450.	0.181
531.	0.454	1450.5	0.184
531.5	0.455	1451.	0.181
532.	0.452	1451.5	0.184
532.5	0.455	1452.	0.181
533.	0.454	1452.5	0.183
533.5	0.454	1453.	0.181
534.	0.453	1453.5	0.182
534.5	0.453	1454.	0.18
535.	0.452	1454.5	0.182
535.5	0.454	1455.	0.181
536.	0.452	1455.5	0.18
536.5	0.452	1456.	0.181
537.	0.451	1456.5	0.18
537.5	0.452	1457.	0.179
538.	0.45	1457.5	0.182
538.5	0.45	1458.	0.18
539.	0.451	1458.5	0.179
539.5	0.452	1459.	0.18
540.	0.45	1459.5	0.18
540.5	0.451	1460.	0.181
541.	0.449	1460.5	0.181
541.5	0.451	1461.	0.181
542.	0.449	1461.5	0.182
542.5	0.45	1462.	0.179
543.	0.45	1462.5	0.181
543.5	0.449	1463.	0.181
544.	0.449	1463.5	0.18
544.5	0.451	1464.	0.179
545.	0.448	1464.5	0.18
545.5	0.45	1465.	0.179
546.	0.448	1465.5	0.181
546.5	0.449	1466.	0.178
547.	0.448	1466.5	0.18
547.5	0.447	1467.	0.178
548.	0.446	1467.5	0.178
548.5	0.448	1468.	0.178
549.	0.446	1468.5	0.178
549.5	0.448	1469.	0.179
550.	0.445	1469.5	0.179
550.5	0.447	1470.	0.176
551.	0.445	1470.5	0.179
551.5	0.445	1471.	0.178

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
552.	0.444	1471.5	0.177
552.5	0.446	1472.	0.178
553.	0.444	1472.5	0.176
553.5	0.446	1473.	0.179
554.	0.445	1473.5	0.178
554.5	0.445	1474.	0.179
555.	0.444	1474.5	0.177
555.5	0.445	1475.	0.177
556.	0.443	1475.5	0.177
556.5	0.444	1476.	0.177
557.	0.442	1476.5	0.178
557.5	0.444	1477.	0.178
558.	0.442	1477.5	0.176
558.5	0.443	1478.	0.178
559.	0.442	1478.5	0.177
559.5	0.443	1479.	0.178
560.	0.44	1479.5	0.176
560.5	0.442	1480.	0.176
561.	0.44	1480.5	0.177
561.5	0.442	1481.	0.177
562.	0.44	1481.5	0.176
562.5	0.442	1482.	0.177
563.	0.439	1482.5	0.176
563.5	0.44	1483.	0.176
564.	0.44	1483.5	0.175
564.5	0.44	1484.	0.178
565.	0.438	1484.5	0.176
565.5	0.44	1485.	0.176
566.	0.439	1485.5	0.176
566.5	0.44	1486.	0.178
567.	0.438	1486.5	0.177
567.5	0.438	1487.	0.176
568.	0.438	1487.5	0.176
568.5	0.438	1488.	0.176
569.	0.436	1488.5	0.175
569.5	0.438	1489.	0.176
570.	0.437	1489.5	0.174
570.5	0.437	1490.	0.175
571.	0.436	1490.5	0.174
571.5	0.438	1491.	0.177
572.	0.436	1491.5	0.173
572.5	0.436	1492.	0.175
573.	0.435	1492.5	0.174
573.5	0.436	1493.	0.175
574.	0.434	1493.5	0.174
574.5	0.435	1494.	0.175
575.	0.435	1494.5	0.173
575.5	0.435	1495.	0.175
576.	0.435	1495.5	0.172
576.5	0.435	1496.	0.173
577.	0.433	1496.5	0.171
577.5	0.433	1497.	0.174
578.	0.433	1497.5	0.172
578.5	0.434	1498.	0.173
579.	0.433	1498.5	0.173
579.5	0.433	1499.	0.174
580.	0.432	1499.5	0.173
580.5	0.433	1500.	0.172
581.	0.433	1500.5	0.172
581.5	0.433	1501.	0.174
582.	0.432	1501.5	0.172
582.5	0.431	1502.	0.172
583.	0.431	1502.5	0.172
583.5	0.432	1503.	0.172
584.	0.43	1503.5	0.172
584.5	0.43	1504.	0.172
585.	0.43	1504.5	0.17

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
585.5	0.431	1505.	0.172
586.	0.43	1505.5	0.171
586.5	0.431	1506.	0.172
587.	0.431	1506.5	0.171
587.5	0.429	1507.	0.171
588.	0.428	1507.5	0.171
588.5	0.43	1508.	0.171
589.	0.429	1508.5	0.173
589.5	0.43	1509.	0.173
590.	0.429	1509.5	0.17
590.5	0.427	1510.	0.171
591.	0.426	1510.5	0.17
591.5	0.429	1511.	0.173
592.	0.427	1511.5	0.169
592.5	0.427	1512.	0.173
593.	0.426	1512.5	0.17
593.5	0.428	1513.	0.171
594.	0.426	1513.5	0.17
594.5	0.426	1514.	0.172
595.	0.426	1514.5	0.17
595.5	0.426	1515.	0.171
596.	0.425	1515.5	0.171
596.5	0.426	1516.	0.17
597.	0.425	1516.5	0.17
597.5	0.426	1517.	0.171
598.	0.424	1517.5	0.17
598.5	0.425	1518.	0.17
599.	0.423	1518.5	0.169
599.5	0.424	1519.	0.17
600.	0.424	1519.5	0.17
600.5	0.425	1520.	0.171
601.	0.423	1520.5	0.169
601.5	0.425	1521.	0.169
602.	0.422	1521.5	0.169
602.5	0.424	1522.	0.169
603.	0.424	1522.5	0.169
603.5	0.423	1523.	0.169
604.	0.422	1523.5	0.168
604.5	0.423	1524.	0.171
605.	0.421	1524.5	0.169
605.5	0.423	1525.	0.17
606.	0.422	1525.5	0.167
606.5	0.421	1526.	0.169
607.	0.42	1526.5	0.168
607.5	0.421	1527.	0.168
608.	0.42	1527.5	0.169
608.5	0.421	1528.	0.169
609.	0.419	1528.5	0.168
609.5	0.42	1529.	0.169
610.	0.42	1529.5	0.167
610.5	0.42	1530.	0.168
611.	0.419	1530.5	0.169
611.5	0.42	1531.	0.168
612.	0.418	1531.5	0.168
612.5	0.418	1532.	0.17
613.	0.417	1532.5	0.168
613.5	0.419	1533.	0.168
614.	0.417	1533.5	0.168
614.5	0.419	1534.	0.167
615.	0.417	1534.5	0.168
615.5	0.418	1535.	0.169
616.	0.417	1535.5	0.166
616.5	0.417	1536.	0.169
617.	0.416	1536.5	0.167
617.5	0.416	1537.	0.169
618.	0.416	1537.5	0.167
618.5	0.417	1538.	0.168

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
619.	0.414	1538.5	0.165
619.5	0.415	1539.	0.168
620.	0.415	1539.5	0.167
620.5	0.415	1540.	0.168
621.	0.414	1540.5	0.166
621.5	0.415	1541.	0.167
622.	0.415	1541.5	0.167
622.5	0.414	1542.	0.168
623.	0.414	1542.5	0.166
623.5	0.415	1543.	0.167
624.	0.414	1543.5	0.166
624.5	0.414	1544.	0.166
625.	0.413	1544.5	0.165
625.5	0.414	1545.	0.167
626.	0.413	1545.5	0.166
626.5	0.412	1546.	0.167
627.	0.412	1546.5	0.166
627.5	0.414	1547.	0.166
628.	0.411	1547.5	0.165
628.5	0.412	1548.	0.165
629.	0.411	1548.5	0.165
629.5	0.413	1549.	0.167
630.	0.41	1549.5	0.165
630.5	0.411	1550.	0.166
631.	0.411	1550.5	0.165
631.5	0.41	1551.	0.165
632.	0.41	1551.5	0.164
632.5	0.411	1552.	0.164
633.	0.409	1552.5	0.165
633.5	0.41	1553.	0.165
634.	0.409	1553.5	0.164
634.5	0.411	1554.	0.166
635.	0.407	1554.5	0.163
635.5	0.41	1555.	0.166
636.	0.408	1555.5	0.164
636.5	0.409	1556.	0.165
637.	0.407	1556.5	0.163
637.5	0.408	1557.	0.165
638.	0.407	1557.5	0.164
638.5	0.409	1558.	0.164
639.	0.406	1558.5	0.164
639.5	0.407	1559.	0.165
640.	0.407	1559.5	0.164
640.5	0.406	1560.	0.164
641.	0.405	1560.5	0.164
641.5	0.406	1561.	0.164
642.	0.404	1561.5	0.163
642.5	0.406	1562.	0.165
643.	0.403	1562.5	0.163
643.5	0.405	1563.	0.164
644.	0.403	1563.5	0.164
644.5	0.406	1564.	0.164
645.	0.404	1564.5	0.163
645.5	0.405	1565.	0.163
646.	0.403	1565.5	0.163
646.5	0.404	1566.	0.163
647.	0.403	1566.5	0.162
647.5	0.404	1567.	0.162
648.	0.402	1567.5	0.161
648.5	0.403	1568.	0.162
649.	0.402	1568.5	0.162
649.5	0.404	1569.	0.162
650.	0.403	1569.5	0.162
650.5	0.402	1570.	0.161
651.	0.402	1570.5	0.162
651.5	0.405	1571.	0.162
652.	0.402	1571.5	0.161

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
652.5	0.402	1572.	0.162
653.	0.401	1572.5	0.16
653.5	0.401	1573.	0.161
654.	0.399	1573.5	0.161
654.5	0.4	1574.	0.161
655.	0.4	1574.5	0.16
655.5	0.4	1575.	0.16
656.	0.4	1575.5	0.16
656.5	0.4	1576.	0.161
657.	0.398	1576.5	0.161
657.5	0.4	1577.	0.16
658.	0.397	1577.5	0.159
658.5	0.399	1578.	0.16
659.	0.398	1578.5	0.161
659.5	0.398	1579.	0.161
660.	0.395	1579.5	0.159
660.5	0.398	1580.	0.159
661.	0.396	1580.5	0.158
661.5	0.396	1581.	0.161
662.	0.395	1581.5	0.159
662.5	0.396	1582.	0.161
663.	0.394	1582.5	0.16
663.5	0.396	1583.	0.161
664.	0.394	1583.5	0.16
664.5	0.395	1584.	0.16
665.	0.393	1584.5	0.161
665.5	0.394	1585.	0.161
666.	0.392	1585.5	0.161
666.5	0.392	1586.	0.161
667.	0.392	1586.5	0.16
667.5	0.393	1587.	0.16
668.	0.393	1587.5	0.158
668.5	0.392	1588.	0.16
669.	0.391	1588.5	0.159
669.5	0.391	1589.	0.159
670.	0.391	1589.5	0.158
670.5	0.392	1590.	0.159
671.	0.391	1590.5	0.158
671.5	0.392	1591.	0.158
672.	0.39	1591.5	0.159
672.5	0.391	1592.	0.158
673.	0.389	1592.5	0.157
673.5	0.39	1593.	0.157
674.	0.388	1593.5	0.157
674.5	0.391	1594.	0.159
675.	0.39	1594.5	0.157
675.5	0.389	1595.	0.157
676.	0.389	1595.5	0.157
676.5	0.39	1596.	0.156
677.	0.387	1596.5	0.156
677.5	0.39	1597.	0.156
678.	0.388	1597.5	0.156
678.5	0.387	1598.	0.157
679.	0.387	1598.5	0.157
679.5	0.389	1599.	0.157
680.	0.387	1599.5	0.156
680.5	0.388	1600.	0.157
681.	0.387	1600.5	0.156
681.5	0.387	1601.	0.155
682.	0.386	1601.5	0.156
682.5	0.387	1602.	0.157
683.	0.386	1602.5	0.155
683.5	0.386	1603.	0.157
684.	0.386	1603.5	0.155
684.5	0.387	1604.	0.155
685.	0.385	1604.5	0.155
685.5	0.385	1605.	0.156

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
686.	0.385	1605.5	0.156
686.5	0.387	1606.	0.157
687.	0.385	1606.5	0.156
687.5	0.385	1607.	0.155
688.	0.384	1607.5	0.155
688.5	0.385	1608.	0.155
689.	0.385	1608.5	0.154
689.5	0.386	1609.	0.154
690.	0.384	1609.5	0.155
690.5	0.386	1610.	0.155
691.	0.384	1610.5	0.157
691.5	0.386	1611.	0.156
692.	0.384	1611.5	0.156
692.5	0.385	1612.	0.156
693.	0.385	1612.5	0.156
693.5	0.385	1613.	0.156
694.	0.381	1613.5	0.154
694.5	0.385	1614.	0.157
695.	0.384	1614.5	0.155
695.5	0.383	1615.	0.155
696.	0.383	1615.5	0.155
696.5	0.384	1616.	0.155
697.	0.382	1616.5	0.153
697.5	0.384	1617.	0.155
698.	0.382	1617.5	0.154
698.5	0.383	1618.	0.155
699.	0.381	1618.5	0.153
699.5	0.381	1619.	0.154
700.	0.382	1619.5	0.153
700.5	0.381	1620.	0.155
701.	0.38	1620.5	0.152
701.5	0.381	1621.	0.153
702.	0.38	1621.5	0.152
702.5	0.381	1622.	0.154
703.	0.381	1622.5	0.152
703.5	0.382	1623.	0.154
704.	0.38	1623.5	0.153
704.5	0.382	1624.	0.154
705.	0.379	1624.5	0.152
705.5	0.38	1625.	0.155
706.	0.38	1625.5	0.152
706.5	0.38	1626.	0.154
707.	0.379	1626.5	0.152
707.5	0.38	1627.	0.154
708.	0.378	1627.5	0.153
708.5	0.381	1628.	0.152
709.	0.378	1628.5	0.152
709.5	0.38	1629.	0.154
710.	0.379	1629.5	0.153
710.5	0.379	1630.	0.153
711.	0.378	1630.5	0.153
711.5	0.378	1631.	0.153
712.	0.378	1631.5	0.153
712.5	0.379	1632.	0.153
713.	0.378	1632.5	0.152
713.5	0.378	1633.	0.153
714.	0.377	1633.5	0.152
714.5	0.377	1634.	0.154
715.	0.376	1634.5	0.152
715.5	0.376	1635.	0.154
716.	0.375	1635.5	0.152
716.5	0.376	1636.	0.153
717.	0.375	1636.5	0.152
717.5	0.375	1637.	0.153
718.	0.372	1637.5	0.153
718.5	0.373	1638.	0.154
719.	0.373	1638.5	0.152

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
719.5	0.372	1639.	0.153
720.	0.37	1639.5	0.154
720.5	0.373	1640.	0.153
721.	0.371	1640.5	0.152
721.5	0.372	1641.	0.155
722.	0.371	1641.5	0.151
722.5	0.371	1642.	0.153
723.	0.369	1642.5	0.153
723.5	0.371	1643.	0.153
724.	0.371	1643.5	0.152
724.5	0.371	1644.	0.152
725.	0.369	1644.5	0.152
725.5	0.371	1645.	0.153
726.	0.369	1645.5	0.151
726.5	0.369	1646.	0.151
727.	0.369	1646.5	0.152
727.5	0.369	1647.	0.152
728.	0.368	1647.5	0.15
728.5	0.37	1648.	0.151
729.	0.367	1648.5	0.15
729.5	0.368	1649.	0.15
730.	0.367	1649.5	0.151
730.5	0.369	1650.	0.152
731.	0.367	1650.5	0.15
731.5	0.368	1651.	0.15
732.	0.368	1651.5	0.149
732.5	0.368	1652.	0.15
733.	0.367	1652.5	0.151
733.5	0.368	1653.	0.15
734.	0.366	1653.5	0.149
734.5	0.366	1654.	0.15
735.	0.365	1654.5	0.15
735.5	0.367	1655.	0.151
736.	0.366	1655.5	0.149
736.5	0.367	1656.	0.149
737.	0.365	1656.5	0.15
737.5	0.365	1657.	0.149
738.	0.366	1657.5	0.148
738.5	0.364	1658.	0.15
739.	0.366	1658.5	0.148
739.5	0.364	1659.	0.149
740.	0.364	1659.5	0.148
740.5	0.365	1660.	0.148
741.	0.364	1660.5	0.148
741.5	0.365	1661.	0.148
742.	0.363	1661.5	0.148
742.5	0.366	1662.	0.148
743.	0.365	1662.5	0.147
743.5	0.364	1663.	0.149
744.	0.363	1663.5	0.146
744.5	0.364	1664.	0.148
745.	0.364	1664.5	0.147
745.5	0.364	1665.	0.148
746.	0.362	1665.5	0.146
746.5	0.365	1666.	0.146
747.	0.361	1666.5	0.147
747.5	0.363	1667.	0.147
748.	0.363	1667.5	0.147
748.5	0.364	1668.	0.147
749.	0.362	1668.5	0.146
749.5	0.362	1669.	0.147
750.	0.361	1669.5	0.146
750.5	0.362	1670.	0.147
751.	0.361	1670.5	0.145
751.5	0.363	1671.	0.147
752.	0.361	1671.5	0.146
752.5	0.363	1672.	0.147

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
753.	0.36	1672.5	0.145
753.5	0.361	1673.	0.146
754.	0.361	1673.5	0.145
754.5	0.362	1674.	0.146
755.	0.36	1674.5	0.145
755.5	0.361	1675.	0.146
756.	0.36	1675.5	0.145
756.5	0.359	1676.	0.146
757.	0.359	1676.5	0.146
757.5	0.359	1677.	0.145
758.	0.36	1677.5	0.145
758.5	0.36	1678.	0.145
759.	0.359	1678.5	0.145
759.5	0.359	1679.	0.146
760.	0.357	1679.5	0.144
760.5	0.359	1680.	0.146
761.	0.358	1680.5	0.146
761.5	0.358	1681.	0.146
762.	0.358	1681.5	0.145
762.5	0.358	1682.	0.146
763.	0.357	1682.5	0.144
763.5	0.358	1683.	0.144
764.	0.356	1683.5	0.145
764.5	0.357	1684.	0.144
765.	0.356	1684.5	0.146
765.5	0.356	1685.	0.145
766.	0.356	1685.5	0.144
766.5	0.357	1686.	0.145
767.	0.356	1686.5	0.144
767.5	0.357	1687.	0.145
768.	0.356	1687.5	0.146
768.5	0.355	1688.	0.145
769.	0.354	1688.5	0.143
769.5	0.355	1689.	0.146
770.	0.355	1689.5	0.143
770.5	0.354	1690.	0.145
771.	0.353	1690.5	0.143
771.5	0.353	1691.	0.145
772.	0.352	1691.5	0.143
772.5	0.353	1692.	0.143
773.	0.351	1692.5	0.143
773.5	0.351	1693.	0.142
774.	0.35	1693.5	0.142
774.5	0.351	1694.	0.144
775.	0.352	1694.5	0.142
775.5	0.352	1695.	0.143
776.	0.351	1695.5	0.143
776.5	0.352	1696.	0.142
777.	0.351	1696.5	0.142
777.5	0.351	1697.	0.144
778.	0.349	1697.5	0.142
778.5	0.35	1698.	0.142
779.	0.349	1698.5	0.142
779.5	0.351	1699.	0.142
780.	0.349	1699.5	0.142
780.5	0.351	1700.	0.142
781.	0.349	1700.5	0.142
781.5	0.351	1701.	0.143
782.	0.35	1701.5	0.142
782.5	0.35	1702.	0.143
783.	0.349	1702.5	0.142
783.5	0.349	1703.	0.144
784.	0.348	1703.5	0.143
784.5	0.349	1704.	0.142
785.	0.348	1704.5	0.143
785.5	0.349	1705.	0.142
786.	0.348	1705.5	0.142

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
786.5	0.348	1706.	0.141
787.	0.348	1706.5	0.141
787.5	0.349	1707.	0.142
788.	0.347	1707.5	0.141
788.5	0.348	1708.	0.142
789.	0.348	1708.5	0.141
789.5	0.348	1709.	0.142
790.	0.348	1709.5	0.142
790.5	0.349	1710.	0.143
791.	0.347	1710.5	0.141
791.5	0.349	1711.	0.142
792.	0.346	1711.5	0.141
792.5	0.347	1712.	0.141
793.	0.346	1712.5	0.141
793.5	0.347	1713.	0.143
794.	0.348	1713.5	0.139
794.5	0.347	1714.	0.142
795.	0.347	1714.5	0.141
795.5	0.347	1715.	0.14
796.	0.346	1715.5	0.141
796.5	0.348	1716.	0.141
797.	0.347	1716.5	0.141
797.5	0.347	1717.	0.142
798.	0.345	1717.5	0.141
798.5	0.346	1718.	0.143
799.	0.344	1718.5	0.142
799.5	0.345	1719.	0.142
800.	0.345	1719.5	0.141
800.5	0.346	1720.	0.141
801.	0.343	1720.5	0.141
801.5	0.345	1721.	0.142
802.	0.343	1721.5	0.14
802.5	0.344	1722.	0.141
803.	0.343	1722.5	0.14
803.5	0.345	1723.	0.139
804.	0.344	1723.5	0.14
804.5	0.344	1724.	0.14
805.	0.343	1724.5	0.139
805.5	0.344	1725.	0.141
806.	0.342	1725.5	0.139
806.5	0.344	1726.	0.139
807.	0.341	1726.5	0.139
807.5	0.342	1727.	0.139
808.	0.342	1727.5	0.139
808.5	0.342	1728.	0.138
809.	0.342	1728.5	0.138
809.5	0.342	1729.	0.14
810.	0.34	1729.5	0.137
810.5	0.343	1730.	0.138
811.	0.341	1730.5	0.138
811.5	0.341	1731.	0.14
812.	0.34	1731.5	0.138
812.5	0.34	1732.	0.138
813.	0.34	1732.5	0.138
813.5	0.34	1733.	0.139
814.	0.341	1733.5	0.138
814.5	0.341	1734.	0.139
815.	0.339	1734.5	0.137
815.5	0.34	1735.	0.14
816.	0.338	1735.5	0.139
816.5	0.34	1736.	0.137
817.	0.338	1736.5	0.137
817.5	0.339	1737.	0.14
818.	0.338	1737.5	0.139
818.5	0.34	1738.	0.137
819.	0.338	1738.5	0.137
819.5	0.339	1739.	0.139

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
820.	0.338	1739.5	0.138
820.5	0.339	1740.	0.14
821.	0.338	1740.5	0.139
821.5	0.338	1741.	0.139
822.	0.337	1741.5	0.14
822.5	0.337	1742.	0.139
823.	0.337	1742.5	0.139
823.5	0.338	1743.	0.139
824.	0.336	1743.5	0.14
824.5	0.338	1744.	0.139
825.	0.335	1744.5	0.139
825.5	0.337	1745.	0.139
826.	0.335	1745.5	0.139
826.5	0.337	1746.	0.139
827.	0.334	1746.5	0.138
827.5	0.337	1747.	0.14
828.	0.336	1747.5	0.138
828.5	0.335	1748.	0.141
829.	0.335	1748.5	0.139
829.5	0.336	1749.	0.141
830.	0.333	1749.5	0.139
830.5	0.336	1750.	0.14
831.	0.335	1750.5	0.139
831.5	0.335	1751.	0.139
832.	0.333	1751.5	0.14
832.5	0.335	1752.	0.139
833.	0.333	1752.5	0.139
833.5	0.335	1753.	0.14
834.	0.333	1753.5	0.139
834.5	0.334	1754.	0.141
835.	0.333	1754.5	0.14
835.5	0.333	1755.	0.139
836.	0.332	1755.5	0.14
836.5	0.333	1756.	0.14
837.	0.33	1756.5	0.139
837.5	0.332	1757.	0.138
838.	0.332	1757.5	0.138
838.5	0.333	1758.	0.138
839.	0.33	1758.5	0.138
839.5	0.33	1759.	0.139
840.	0.331	1759.5	0.136
840.5	0.33	1760.	0.139
841.	0.331	1760.5	0.138
841.5	0.33	1761.	0.139
842.	0.33	1761.5	0.136
842.5	0.33	1762.	0.137
843.	0.329	1762.5	0.136
843.5	0.33	1763.	0.136
844.	0.329	1763.5	0.138
844.5	0.328	1764.	0.137
845.	0.329	1764.5	0.137
845.5	0.33	1765.	0.137
846.	0.328	1765.5	0.136
846.5	0.33	1766.	0.136
847.	0.327	1766.5	0.136
847.5	0.327	1767.	0.136
848.	0.328	1767.5	0.136
848.5	0.329	1768.	0.137
849.	0.325	1768.5	0.136
849.5	0.33	1769.	0.136
850.	0.327	1769.5	0.136
850.5	0.326	1770.	0.135
851.	0.327	1770.5	0.137
851.5	0.329	1771.	0.137
852.	0.326	1771.5	0.136
852.5	0.325	1772.	0.137
853.	0.326	1772.5	0.135

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
853.5	0.327	1773.	0.137
854.	0.326	1773.5	0.133
854.5	0.325	1774.	0.136
855.	0.324	1774.5	0.134
855.5	0.326	1775.	0.135
856.	0.325	1775.5	0.134
856.5	0.325	1776.	0.134
857.	0.324	1776.5	0.133
857.5	0.326	1777.	0.133
858.	0.324	1777.5	0.133
858.5	0.324	1778.	0.133
859.	0.323	1778.5	0.133
859.5	0.325	1779.	0.133
860.	0.324	1779.5	0.132
860.5	0.324	1780.	0.131
861.	0.321	1780.5	0.132
861.5	0.323	1781.	0.133
862.	0.322	1781.5	0.131
862.5	0.323	1782.	0.132
863.	0.321	1782.5	0.131
863.5	0.323	1783.	0.131
864.	0.321	1783.5	0.131
864.5	0.323	1784.	0.131
865.	0.322	1784.5	0.131
865.5	0.323	1785.	0.133
866.	0.322	1785.5	0.13
866.5	0.322	1786.	0.131
867.	0.321	1786.5	0.13
867.5	0.32	1787.	0.131
868.	0.321	1787.5	0.13
868.5	0.319	1788.	0.131
869.	0.319	1788.5	0.13
869.5	0.32	1789.	0.131
870.	0.319	1789.5	0.129
870.5	0.321	1790.	0.131
871.	0.319	1790.5	0.129
871.5	0.32	1791.	0.131
872.	0.319	1791.5	0.129
872.5	0.321	1792.	0.13
873.	0.319	1792.5	0.128
873.5	0.319	1793.	0.13
874.	0.318	1793.5	0.128
874.5	0.319	1794.	0.13
875.	0.319	1794.5	0.127
875.5	0.319	1795.	0.128
876.	0.318	1795.5	0.128
876.5	0.318	1796.	0.128
877.	0.318	1796.5	0.129
877.5	0.32	1797.	0.129
878.	0.316	1797.5	0.129
878.5	0.319	1798.	0.129
879.	0.318	1798.5	0.128
879.5	0.319	1799.	0.129
880.	0.318	1799.5	0.127
880.5	0.319	1800.	0.129
881.	0.318	1800.5	0.129
881.5	0.318	1801.	0.13
882.	0.316	1801.5	0.129
882.5	0.318	1802.	0.13
883.	0.316	1802.5	0.129
883.5	0.318	1803.	0.127
884.	0.317	1803.5	0.128
884.5	0.317	1804.	0.129
885.	0.315	1804.5	0.129
885.5	0.316	1805.	0.128
886.	0.315	1805.5	0.128
886.5	0.314	1806.	0.128

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
887.	0.312	1806.5	0.127
887.5	0.314	1807.	0.13
888.	0.313	1807.5	0.128
888.5	0.314	1808.	0.129
889.	0.312	1808.5	0.129
889.5	0.313	1809.	0.129
890.	0.312	1809.5	0.127
890.5	0.313	1810.	0.129
891.	0.312	1810.5	0.128
891.5	0.311	1811.	0.128
892.	0.311	1811.5	0.127
892.5	0.312	1812.	0.13
893.	0.311	1812.5	0.127
893.5	0.312	1813.	0.128
894.	0.309	1813.5	0.127
894.5	0.31	1814.	0.129
895.	0.31	1814.5	0.128
895.5	0.311	1815.	0.127
896.	0.311	1815.5	0.125
896.5	0.31	1816.	0.128
897.	0.311	1816.5	0.127
897.5	0.31	1817.	0.128
898.	0.309	1817.5	0.126
898.5	0.31	1818.	0.127
899.	0.31	1818.5	0.126
899.5	0.31	1819.	0.126
900.	0.308	1819.5	0.125
900.5	0.311	1820.	0.126
901.	0.309	1820.5	0.125
901.5	0.309	1821.	0.127
902.	0.31	1821.5	0.126
902.5	0.309	1822.	0.125
903.	0.309	1822.5	0.126
903.5	0.309	1823.	0.125
904.	0.31	1823.5	0.126
904.5	0.309	1824.	0.126
905.	0.308	1824.5	0.126
905.5	0.309	1825.	0.125
906.	0.308	1825.5	0.125
906.5	0.309	1826.	0.126
907.	0.308	1826.5	0.124
907.5	0.31	1827.	0.127
908.	0.308	1827.5	0.125
908.5	0.309	1828.	0.126
909.	0.309	1828.5	0.125
909.5	0.307	1829.	0.127
910.	0.308	1829.5	0.125
910.5	0.308	1830.	0.126
911.	0.307	1830.5	0.125
911.5	0.308	1831.	0.125
912.	0.308	1831.5	0.125
912.5	0.309	1832.	0.126
913.	0.307	1832.5	0.125
913.5	0.308	1833.	0.127
914.	0.306	1833.5	0.125
914.5	0.306	1834.	0.126
915.	0.306	1834.5	0.125
915.5	0.308	1835.	0.125
916.	0.305	1835.5	0.124
916.5	0.306	1836.	0.124
917.	0.306	1836.5	0.124
917.5	0.306	1837.	0.123
918.	0.305	1837.5	0.123
918.5	0.307	1838.	0.123
919.	0.306	1838.5	0.124
919.5	0.306		

SOLUTION

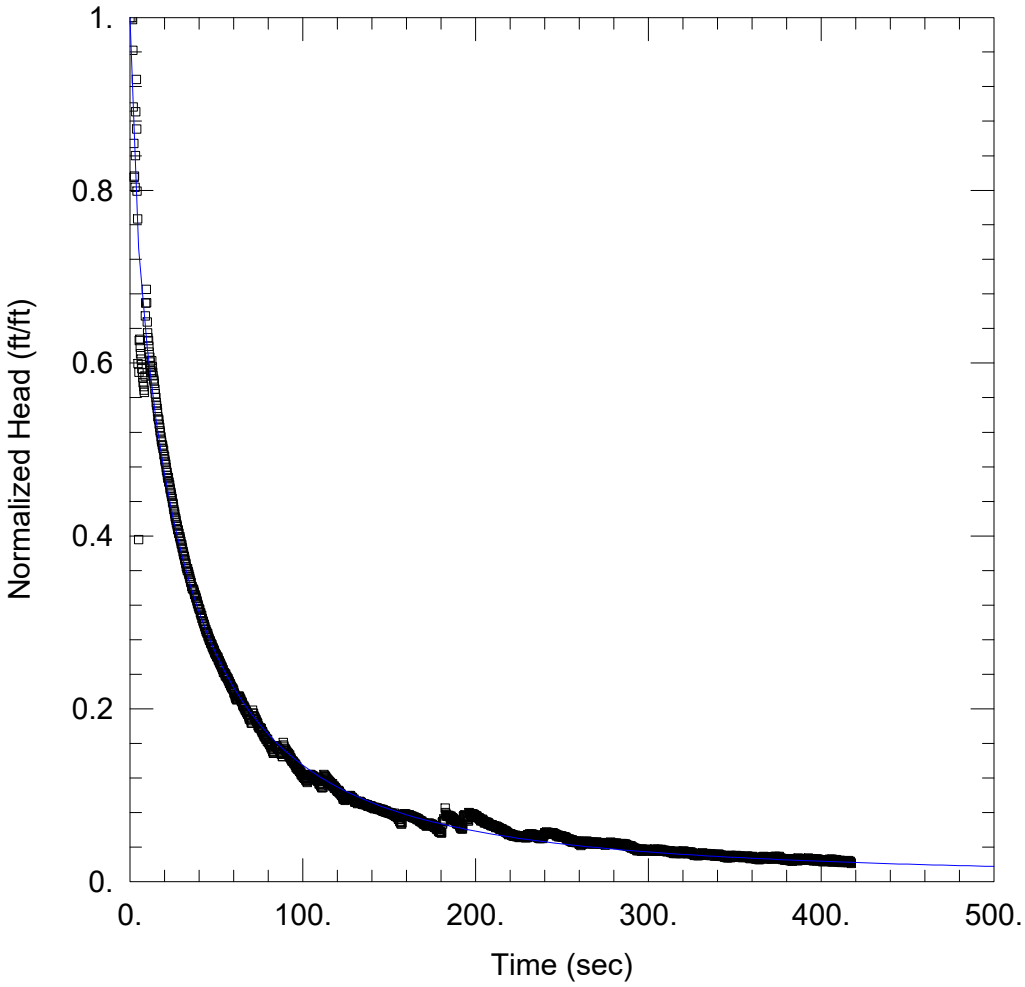
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.977

VISUAL ESTIMATION RESULTS

Estimated Parameters

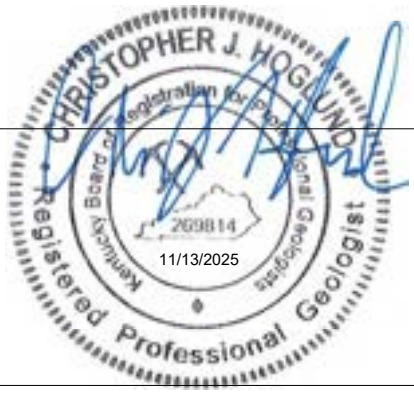
Parameter	Estimate	
K	2.52E-5	cm/sec
y0	0.8216	ft

T = K*b = 0.00993 cm²/sec



MW-115 FALLING HEAD 01

Data Set: Z:\...\MW-115 Falling Head 01.aqt
Date: 10/07/25 Time: 09:03:42



PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-115
Test Well: MW-115
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 28.59 ft

WELL DATA (MW-115)

Initial Displacement: 2.18 ft
Total Well Penetration Depth: 28.59 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 28.59 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.000442 cm/sec
Kz/Kr = 1.
Ss = 0.0005249 ft^{-1}

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-115 Falling Head 01
Date: 10/07/25
Time: 09:04:16

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-115
Test Date: 9/18/25
Test Well: MW-115

AQUIFER DATA

Saturated Thickness: 28.59 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-115

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.18 ft
Static Water Column Height: 28.59 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 28.59 ft

No. of Observations: 1666

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.25	2.18	209.5	0.142
1.5	2.175	209.8	0.143
1.75	2.097	210.	0.141
2.	1.954	210.3	0.14
2.25	1.862	210.5	0.141
2.5	1.777	210.8	0.141
2.75	1.78	211.	0.139
3.	1.752	211.3	0.139
3.25	1.832	211.5	0.138
3.5	1.942	211.8	0.136
3.75	2.024	212.	0.139
4.	1.899	212.3	0.139
4.25	1.742	212.5	0.137
4.5	1.672	212.8	0.138
4.75	1.307	213.	0.136
5.	0.863	213.3	0.137
5.25	1.285	213.5	0.136
5.5	1.365	213.8	0.133
5.75	1.368	214.	0.135
6.	1.348	214.3	0.133
6.25	1.332	214.5	0.132
6.5	1.318	214.8	0.132
6.75	1.304	215.	0.133
7.	1.294	215.3	0.132
7.25	1.284	215.5	0.132
7.5	1.271	215.8	0.131
7.75	1.258	216.	0.128
8.	1.249	216.3	0.128
8.25	1.24	216.5	0.127
8.5	1.234	216.8	0.129
8.75	1.275	217.	0.129

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
9.	1.427	217.3	0.125
9.25	1.459	217.5	0.127
9.5	1.494	217.8	0.126
9.75	1.46	218.	0.126
10.	1.412	218.3	0.123
10.25	1.384	218.5	0.122
10.5	1.372	218.8	0.123
10.75	1.365	219.	0.121
11.	1.35	219.3	0.118
11.25	1.336	219.5	0.119
11.5	1.323	219.8	0.119
11.75	1.311	220.	0.119
12.	1.301	220.3	0.12
12.25	1.289	220.5	0.121
12.5	1.284	220.8	0.117
12.75	1.314	221.	0.118
13.	1.299	221.3	0.118
13.25	1.285	221.5	0.115
13.5	1.276	221.8	0.118
13.75	1.268	222.	0.116
14.	1.263	222.3	0.114
14.25	1.257	222.5	0.114
14.5	1.242	222.8	0.115
14.75	1.231	223.	0.115
15.	1.221	223.3	0.117
15.25	1.208	223.5	0.116
15.5	1.202	223.8	0.116
15.75	1.194	224.	0.113
16.	1.185	224.3	0.115
16.25	1.173	224.5	0.115
16.5	1.167	224.8	0.114
16.75	1.165	225.	0.115
17.	1.154	225.3	0.111
17.25	1.146	225.5	0.112
17.5	1.137	225.8	0.112
17.75	1.132	226.	0.112
18.	1.122	226.3	0.113
18.25	1.114	226.5	0.114
18.5	1.109	226.8	0.113
18.75	1.102	227.	0.112
19.01	1.099	227.3	0.113
19.25	1.093	227.5	0.113
19.5	1.088	227.8	0.114
19.75	1.077	228.	0.112
20.	1.073	228.3	0.112
20.25	1.064	228.5	0.112
20.5	1.059	228.8	0.114
20.75	1.053	229.	0.11
21.	1.045	229.3	0.112
21.25	1.037	229.5	0.113
21.5	1.032	229.8	0.111
21.75	1.025	230.	0.111
22.	1.018	230.3	0.118
22.25	1.019	230.5	0.117
22.5	1.009	230.8	0.116
22.75	1.007	231.	0.117
23.	1.001	231.3	0.119
23.25	0.993	231.5	0.12
23.5	0.989	231.8	0.118
23.75	0.982	232.	0.118
24.	0.977	232.3	0.118
24.25	0.972	232.5	0.12
24.5	0.966	232.8	0.119
24.75	0.957	233.	0.117
25.	0.953	233.3	0.119
25.25	0.945	233.5	0.118
25.5	0.939	233.8	0.118

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
25.75	0.933	234.	0.118
26.	0.927	234.3	0.116
26.25	0.92	234.5	0.115
26.5	0.916	234.8	0.114
26.75	0.911	235.	0.113
27.	0.905	235.3	0.114
27.25	0.9	235.5	0.113
27.5	0.896	235.8	0.114
27.75	0.888	236.	0.113
28.	0.887	236.3	0.11
28.25	0.88	236.5	0.11
28.5	0.878	236.8	0.111
28.75	0.87	237.	0.109
29.	0.87	237.3	0.111
29.25	0.864	237.5	0.109
29.5	0.859	237.8	0.109
29.75	0.852	238.	0.11
30.	0.85	238.3	0.111
30.25	0.843	238.5	0.111
30.5	0.84	238.8	0.11
30.75	0.833	239.	0.109
31.	0.829	239.3	0.115
31.25	0.824	239.5	0.115
31.5	0.82	239.8	0.118
31.75	0.814	240.	0.12
32.	0.81	240.3	0.123
32.25	0.804	240.5	0.121
32.5	0.801	240.8	0.122
32.75	0.794	241.	0.122
33.	0.79	241.3	0.125
33.25	0.785	241.5	0.124
33.5	0.789	241.8	0.122
33.75	0.782	242.	0.122
34.	0.779	242.3	0.124
34.25	0.775	242.5	0.122
34.5	0.77	242.8	0.122
34.75	0.765	243.	0.121
35.	0.76	243.3	0.123
35.25	0.755	243.5	0.12
35.5	0.754	243.8	0.123
35.75	0.745	244.	0.121
36.	0.744	244.3	0.122
36.25	0.739	244.5	0.122
36.5	0.738	244.8	0.123
36.75	0.737	245.	0.12
37.	0.736	245.3	0.122
37.25	0.73	245.5	0.12
37.5	0.725	245.8	0.12
37.75	0.724	246.	0.12
38.	0.721	246.3	0.118
38.25	0.716	246.5	0.119
38.5	0.715	246.8	0.118
38.75	0.709	247.	0.115
39.	0.706	247.3	0.117
39.25	0.701	247.5	0.116
39.5	0.698	247.8	0.116
39.75	0.693	248.	0.117
40.	0.689	248.3	0.113
40.25	0.687	248.5	0.116
40.5	0.686	248.8	0.115
40.75	0.678	249.	0.114
41.	0.678	249.3	0.115
41.25	0.672	249.5	0.113
41.5	0.671	249.8	0.114
41.75	0.664	250.	0.115
42.	0.663	250.3	0.113
42.25	0.658	250.5	0.113

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
42.5	0.656	250.8	0.113
42.75	0.652	251.	0.112
43.	0.649	251.3	0.113
43.25	0.645	251.5	0.113
43.5	0.642	251.8	0.112
43.75	0.637	252.	0.111
44.	0.636	252.3	0.112
44.25	0.631	252.5	0.11
44.5	0.629	252.8	0.107
44.75	0.626	253.	0.109
45.	0.625	253.3	0.106
45.25	0.62	253.5	0.106
45.5	0.617	253.8	0.106
45.75	0.614	254.	0.107
46.	0.61	254.3	0.106
46.25	0.608	254.5	0.107
46.5	0.607	254.8	0.102
46.75	0.602	255.	0.105
47.	0.601	255.3	0.102
47.25	0.599	255.5	0.102
47.5	0.597	255.8	0.1
47.75	0.592	256.	0.105
48.	0.591	256.3	0.1
48.25	0.588	256.5	0.101
48.5	0.585	256.8	0.1
48.75	0.584	257.	0.1
49.	0.58	257.3	0.101
49.25	0.577	257.5	0.101
49.5	0.575	257.8	0.101
49.75	0.573	258.	0.098
50.	0.571	258.3	0.1
50.25	0.567	258.5	0.099
50.5	0.567	258.8	0.101
50.75	0.566	259.	0.101
51.	0.564	259.3	0.102
51.25	0.559	259.5	0.097
51.5	0.557	259.8	0.1
51.75	0.557	260.	0.094
52.	0.552	260.3	0.094
52.25	0.551	260.5	0.095
52.5	0.548	260.8	0.095
52.75	0.546	261.	0.091
53.	0.543	261.3	0.095
53.25	0.541	261.5	0.093
53.5	0.539	261.8	0.096
53.75	0.535	262.	0.095
54.	0.534	262.3	0.098
54.25	0.528	262.5	0.097
54.5	0.528	262.8	0.099
54.75	0.527	263.	0.101
55.	0.524	263.3	0.098
55.25	0.519	263.5	0.098
55.5	0.524	263.8	0.099
55.75	0.518	264.	0.099
56.	0.517	264.3	0.1
56.25	0.515	264.5	0.102
56.5	0.512	264.8	0.1
56.75	0.512	265.	0.097
57.	0.508	265.3	0.097
57.25	0.506	265.5	0.098
57.5	0.504	265.8	0.099
57.75	0.5	266.	0.096
58.	0.499	266.3	0.095
58.25	0.498	266.5	0.097
58.5	0.494	266.8	0.096
58.75	0.492	267.	0.097
59.	0.489	267.3	0.097

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
59.25	0.489	267.5	0.096
59.5	0.486	267.8	0.096
59.75	0.486	268.	0.1
60.	0.482	268.3	0.097
60.25	0.476	268.5	0.096
60.5	0.475	268.8	0.097
60.75	0.471	269.	0.096
61.	0.467	269.3	0.097
61.25	0.463	269.5	0.098
61.5	0.461	269.8	0.097
61.75	0.461	270.	0.099
62.	0.458	270.3	0.1
62.25	0.46	270.5	0.098
62.5	0.464	270.8	0.096
62.75	0.467	271.	0.096
63.	0.467	271.3	0.096
63.25	0.468	271.5	0.098
63.5	0.466	271.8	0.097
63.75	0.463	272.	0.095
64.	0.459	272.3	0.095
64.25	0.46	272.5	0.097
64.5	0.455	272.8	0.097
64.75	0.454	273.	0.097
65.	0.451	273.3	0.098
65.25	0.447	273.5	0.097
65.5	0.444	273.8	0.097
65.75	0.442	274.	0.095
66.	0.443	274.3	0.098
66.25	0.438	274.5	0.098
66.5	0.438	274.8	0.096
66.75	0.433	275.	0.092
67.	0.432	275.3	0.096
67.25	0.431	275.5	0.095
67.5	0.428	275.8	0.096
67.75	0.427	276.	0.095
68.	0.423	276.3	0.097
68.25	0.423	276.5	0.096
68.5	0.422	276.8	0.097
68.75	0.418	277.	0.094
69.	0.415	277.3	0.094
69.25	0.41	277.5	0.096
69.5	0.411	277.8	0.097
69.75	0.408	278.	0.098
70.	0.406	278.3	0.099
70.25	0.4	278.5	0.099
70.5	0.4	278.8	0.095
70.75	0.399	279.	0.094
71.	0.432	279.3	0.094
71.25	0.425	279.5	0.094
71.5	0.424	279.8	0.094
71.75	0.419	280.	0.097
72.	0.416	280.3	0.095
72.25	0.415	280.5	0.096
72.5	0.411	280.8	0.095
72.75	0.409	281.	0.094
73.	0.408	281.3	0.094
73.25	0.404	281.5	0.097
73.5	0.403	281.8	0.094
73.75	0.4	282.	0.095
74.	0.399	282.3	0.093
74.25	0.393	282.5	0.096
74.5	0.392	282.8	0.094
74.75	0.388	283.	0.095
75.	0.388	283.3	0.095
75.25	0.387	283.5	0.095
75.5	0.388	283.8	0.094
75.75	0.385	284.	0.095

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
76.	0.386	284.3	0.093
76.25	0.381	284.5	0.096
76.5	0.377	284.8	0.094
76.75	0.378	285.	0.096
77.	0.375	285.3	0.091
77.25	0.371	285.5	0.096
77.5	0.371	285.8	0.094
77.75	0.367	286.	0.094
78.	0.368	286.3	0.092
78.25	0.364	286.5	0.095
78.5	0.365	286.8	0.091
78.75	0.359	287.	0.094
79.	0.361	287.3	0.092
79.25	0.359	287.5	0.093
79.5	0.354	287.8	0.09
79.75	0.359	288.	0.091
80.	0.352	288.3	0.089
80.25	0.351	288.5	0.091
80.5	0.35	288.8	0.091
80.75	0.347	289.	0.089
81.	0.346	289.3	0.088
81.25	0.344	289.5	0.09
81.5	0.342	289.8	0.087
81.75	0.338	290.	0.09
82.	0.337	290.3	0.084
82.25	0.334	290.5	0.086
82.5	0.332	290.8	0.086
82.75	0.328	291.	0.087
83.	0.323	291.3	0.086
83.25	0.325	291.5	0.084
83.5	0.327	291.8	0.083
83.75	0.343	292.	0.082
84.	0.341	292.3	0.084
84.25	0.343	292.5	0.082
84.5	0.341	292.8	0.083
84.75	0.34	293.	0.083
85.	0.343	293.3	0.08
85.25	0.338	293.5	0.078
85.5	0.335	293.8	0.082
85.75	0.335	294.	0.078
86.	0.335	294.3	0.081
86.25	0.335	294.5	0.081
86.5	0.332	294.8	0.08
86.75	0.332	295.	0.078
87.	0.326	295.3	0.08
87.25	0.329	295.5	0.081
87.5	0.324	295.8	0.079
87.75	0.321	296.	0.081
88.	0.323	296.3	0.076
88.25	0.315	296.5	0.082
88.5	0.315	296.8	0.08
88.75	0.351	297.	0.08
89.	0.344	297.3	0.08
89.25	0.341	297.5	0.079
89.5	0.336	297.8	0.078
89.75	0.334	298.	0.08
90.	0.334	298.3	0.079
90.25	0.331	298.5	0.08
90.5	0.329	298.8	0.08
90.75	0.326	299.	0.079
91.	0.327	299.3	0.079
91.25	0.323	299.5	0.081
91.5	0.32	299.8	0.081
91.75	0.323	300.	0.079
92.	0.319	300.3	0.078
92.25	0.317	300.5	0.077
92.5	0.319	300.8	0.078

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
92.75	0.313	301.	0.08
93.	0.313	301.3	0.078
93.25	0.31	301.5	0.079
93.5	0.308	301.8	0.078
93.75	0.305	302.	0.079
94.	0.304	302.3	0.078
94.25	0.303	302.5	0.079
94.5	0.303	302.8	0.078
94.75	0.3	303.	0.078
95.	0.298	303.3	0.079
95.25	0.297	303.5	0.077
95.5	0.298	303.8	0.082
95.75	0.293	304.	0.076
96.	0.294	304.3	0.078
96.25	0.288	304.5	0.08
96.5	0.29	304.8	0.079
96.75	0.286	305.	0.08
97.	0.285	305.3	0.08
97.25	0.283	305.5	0.081
97.5	0.283	305.8	0.081
97.75	0.282	306.	0.077
98.	0.28	306.3	0.078
98.25	0.278	306.5	0.076
98.5	0.278	306.8	0.079
98.75	0.275	307.	0.079
99.	0.275	307.3	0.079
99.25	0.27	307.5	0.081
99.5	0.27	307.8	0.078
99.75	0.267	308.	0.079
100.	0.269	308.3	0.078
100.3	0.268	308.5	0.079
100.5	0.263	308.8	0.076
100.8	0.263	309.	0.079
101.	0.261	309.3	0.077
101.3	0.26	309.5	0.078
101.5	0.26	309.8	0.079
101.8	0.258	310.	0.078
102.	0.255	310.3	0.076
102.3	0.255	310.5	0.076
102.5	0.253	310.8	0.075
102.8	0.25	311.	0.077
103.	0.264	311.3	0.076
103.3	0.269	311.5	0.077
103.5	0.266	311.8	0.077
103.8	0.27	312.	0.077
104.	0.268	312.3	0.077
104.3	0.269	312.5	0.077
104.5	0.269	312.8	0.077
104.8	0.27	313.	0.074
105.	0.268	313.3	0.073
105.3	0.267	313.5	0.074
105.5	0.268	313.8	0.074
105.8	0.267	314.	0.073
106.	0.265	314.3	0.073
106.3	0.265	314.5	0.072
106.5	0.261	314.8	0.071
106.8	0.263	315.	0.073
107.	0.264	315.3	0.073
107.3	0.261	315.5	0.072
107.5	0.258	315.8	0.073
107.8	0.258	316.	0.071
108.	0.256	316.3	0.076
108.3	0.256	316.5	0.072
108.5	0.254	316.8	0.072
108.8	0.254	317.	0.073
109.	0.252	317.3	0.076
109.3	0.252	317.5	0.072

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
109.5	0.247	317.8	0.074
109.8	0.246	318.	0.071
110.	0.247	318.3	0.072
110.3	0.246	318.5	0.073
110.5	0.241	318.8	0.074
110.8	0.242	319.	0.073
111.	0.237	319.3	0.071
111.3	0.237	319.5	0.071
111.5	0.237	319.8	0.072
111.8	0.238	320.	0.072
112.	0.252	320.3	0.077
112.3	0.27	320.5	0.073
112.5	0.265	320.8	0.075
112.8	0.268	321.	0.076
113.	0.265	321.3	0.075
113.3	0.265	321.5	0.073
113.5	0.261	321.8	0.072
113.8	0.261	322.	0.073
114.	0.258	322.3	0.073
114.3	0.259	322.5	0.071
114.5	0.255	322.8	0.071
114.8	0.256	323.	0.074
115.	0.254	323.3	0.071
115.3	0.252	323.5	0.075
115.5	0.252	323.8	0.074
115.8	0.251	324.	0.073
116.	0.248	324.3	0.072
116.3	0.249	324.5	0.071
116.5	0.246	324.8	0.075
116.8	0.246	325.	0.071
117.	0.243	325.3	0.07
117.3	0.247	325.5	0.071
117.5	0.241	325.8	0.072
117.8	0.239	326.	0.071
118.	0.239	326.3	0.069
118.3	0.241	326.5	0.066
118.5	0.235	326.8	0.068
118.8	0.237	327.	0.067
119.	0.235	327.3	0.067
119.3	0.235	327.5	0.067
119.5	0.231	327.8	0.068
119.8	0.231	328.	0.067
120.	0.228	328.3	0.066
120.3	0.228	328.5	0.069
120.5	0.228	328.8	0.065
120.8	0.23	329.	0.068
121.	0.225	329.3	0.069
121.3	0.227	329.5	0.067
121.5	0.223	329.8	0.066
121.8	0.222	330.	0.067
122.	0.222	330.3	0.068
122.3	0.22	330.5	0.068
122.5	0.218	330.8	0.071
122.8	0.217	331.	0.071
123.	0.216	331.3	0.069
123.3	0.213	331.5	0.072
123.5	0.208	331.8	0.07
123.8	0.208	332.	0.068
124.	0.209	332.3	0.069
124.3	0.208	332.5	0.069
124.5	0.205	332.8	0.068
124.8	0.207	333.	0.068
125.	0.21	333.3	0.069
125.3	0.208	333.5	0.068
125.5	0.212	333.8	0.071
125.8	0.211	334.	0.069
126.	0.216	334.3	0.069

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
126.3	0.216	334.5	0.069
126.5	0.215	334.8	0.067
126.8	0.214	335.	0.068
127.	0.217	335.3	0.069
127.3	0.217	335.5	0.066
127.5	0.213	335.8	0.068
127.8	0.217	336.	0.066
128.	0.213	336.3	0.07
128.3	0.213	336.5	0.066
128.5	0.21	336.8	0.068
128.8	0.212	337.	0.067
129.	0.207	337.3	0.067
129.3	0.208	337.5	0.067
129.5	0.206	337.8	0.068
129.8	0.208	338.	0.065
130.	0.201	338.3	0.068
130.3	0.202	338.5	0.064
130.5	0.201	338.8	0.066
130.8	0.2	339.	0.067
131.	0.201	339.3	0.067
131.3	0.203	339.5	0.065
131.5	0.199	339.8	0.068
131.8	0.197	340.	0.067
132.	0.201	340.3	0.068
132.3	0.199	340.5	0.064
132.5	0.201	340.8	0.069
132.8	0.198	341.	0.065
133.	0.202	341.3	0.068
133.3	0.201	341.5	0.067
133.5	0.201	341.8	0.066
133.8	0.2	342.	0.063
134.	0.199	342.3	0.064
134.3	0.197	342.5	0.067
134.5	0.196	342.8	0.066
134.8	0.195	343.	0.064
135.	0.197	343.3	0.064
135.3	0.194	343.5	0.065
135.5	0.196	343.8	0.065
135.8	0.195	344.	0.062
136.	0.195	344.3	0.062
136.3	0.194	344.5	0.063
136.5	0.194	344.8	0.063
136.8	0.193	345.	0.061
137.	0.194	345.3	0.063
137.3	0.193	345.5	0.06
137.5	0.193	345.8	0.062
137.8	0.19	346.	0.06
138.	0.192	346.3	0.06
138.3	0.19	346.5	0.062
138.5	0.19	346.8	0.064
138.8	0.19	347.	0.062
139.	0.189	347.3	0.063
139.3	0.189	347.5	0.066
139.5	0.191	347.8	0.06
139.8	0.188	348.	0.064
140.	0.189	348.3	0.066
140.3	0.187	348.5	0.063
140.5	0.187	348.8	0.063
140.8	0.185	349.	0.063
141.	0.187	349.3	0.065
141.3	0.186	349.5	0.061
141.5	0.184	349.8	0.062
141.8	0.187	350.	0.063
142.	0.187	350.3	0.064
142.3	0.185	350.5	0.065
142.5	0.186	350.8	0.062
142.8	0.185	351.	0.066

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
143.	0.184	351.3	0.064
143.3	0.183	351.5	0.065
143.5	0.185	351.8	0.065
143.8	0.184	352.	0.064
144.	0.184	352.3	0.064
144.3	0.184	352.5	0.062
144.5	0.181	352.8	0.063
144.8	0.182	353.	0.062
145.	0.183	353.3	0.063
145.3	0.181	353.5	0.062
145.5	0.181	353.8	0.063
145.8	0.18	354.	0.062
146.	0.182	354.3	0.062
146.3	0.178	354.5	0.06
146.5	0.181	354.8	0.061
146.8	0.177	355.	0.062
147.	0.18	355.3	0.061
147.3	0.179	355.5	0.062
147.5	0.179	355.8	0.061
147.8	0.176	356.	0.062
148.	0.177	356.3	0.063
148.3	0.175	356.5	0.062
148.5	0.178	356.8	0.062
148.8	0.175	357.	0.061
149.	0.174	357.3	0.064
149.3	0.174	357.5	0.063
149.5	0.175	357.8	0.062
149.8	0.173	358.	0.063
150.	0.174	358.3	0.061
150.3	0.172	358.5	0.059
150.5	0.173	358.8	0.062
150.8	0.172	359.	0.058
151.	0.172	359.3	0.062
151.3	0.171	359.5	0.062
151.5	0.172	359.8	0.06
151.8	0.17	360.	0.061
152.	0.171	360.3	0.063
152.3	0.17	360.5	0.059
152.5	0.168	360.8	0.061
152.8	0.168	361.	0.059
153.	0.172	361.3	0.06
153.3	0.167	361.5	0.058
153.5	0.167	361.8	0.061
153.8	0.164	362.	0.059
154.	0.166	362.3	0.057
154.3	0.165	362.5	0.057
154.5	0.165	362.8	0.059
154.8	0.162	363.	0.059
155.	0.162	363.3	0.059
155.3	0.16	363.5	0.057
155.5	0.157	363.8	0.055
155.8	0.157	364.	0.058
156.	0.156	364.3	0.057
156.3	0.151	364.5	0.055
156.5	0.15	364.8	0.058
156.8	0.148	365.	0.059
157.	0.146	365.3	0.059
157.3	0.145	365.5	0.06
157.5	0.149	365.8	0.061
157.8	0.166	366.	0.061
158.	0.165	366.3	0.061
158.3	0.169	366.5	0.062
158.5	0.169	366.8	0.062
158.8	0.171	367.	0.063
159.	0.169	367.3	0.062
159.3	0.171	367.5	0.06
159.5	0.17	367.8	0.059

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
159.8	0.17	368.	0.057
160.	0.168	368.3	0.061
160.3	0.169	368.5	0.06
160.5	0.166	368.8	0.06
160.8	0.168	369.	0.06
161.	0.166	369.3	0.061
161.3	0.168	369.5	0.058
161.5	0.165	369.8	0.061
161.8	0.168	370.	0.058
162.	0.165	370.3	0.061
162.3	0.166	370.5	0.058
162.5	0.164	370.8	0.061
162.8	0.166	371.	0.059
163.	0.164	371.3	0.057
163.3	0.164	371.5	0.059
163.5	0.162	371.8	0.057
163.8	0.164	372.	0.062
164.	0.161	372.3	0.059
164.3	0.162	372.5	0.061
164.5	0.161	372.8	0.061
164.8	0.163	373.	0.062
165.	0.161	373.3	0.062
165.3	0.16	373.5	0.063
165.5	0.16	373.8	0.06
165.8	0.159	374.	0.063
166.	0.16	374.3	0.061
166.3	0.156	374.5	0.059
166.5	0.158	374.8	0.06
166.8	0.157	375.	0.058
167.	0.158	375.3	0.061
167.3	0.156	375.5	0.062
167.5	0.154	375.8	0.063
167.8	0.153	376.	0.057
168.	0.151	376.3	0.059
168.3	0.154	376.5	0.058
168.5	0.151	376.8	0.059
168.8	0.151	377.	0.057
169.	0.152	377.3	0.058
169.3	0.148	377.5	0.058
169.5	0.149	377.8	0.055
169.8	0.148	378.	0.058
170.	0.146	378.3	0.058
170.3	0.144	378.5	0.057
170.5	0.147	378.8	0.057
170.8	0.145	379.	0.054
171.	0.143	379.3	0.057
171.3	0.143	379.5	0.056
171.5	0.14	379.8	0.056
171.8	0.141	380.	0.054
172.	0.141	380.3	0.058
172.3	0.142	380.5	0.055
172.5	0.144	380.8	0.057
172.8	0.147	381.	0.057
173.	0.145	381.3	0.054
173.3	0.145	381.5	0.053
173.5	0.147	381.8	0.054
173.8	0.146	382.	0.055
174.	0.144	382.3	0.055
174.3	0.142	382.5	0.052
174.5	0.145	382.8	0.055
174.8	0.143	383.	0.054
175.	0.144	383.3	0.052
175.3	0.141	383.5	0.051
175.5	0.14	383.8	0.055
175.8	0.14	384.	0.054
176.	0.139	384.3	0.055
176.3	0.137	384.5	0.058

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
176.5	0.14	384.8	0.056
176.8	0.138	385.	0.057
177.	0.137	385.3	0.055
177.3	0.134	385.5	0.054
177.5	0.135	385.8	0.054
177.8	0.131	386.	0.054
178.	0.134	386.3	0.058
178.3	0.132	386.5	0.052
178.5	0.13	386.8	0.059
178.8	0.126	387.	0.054
179.	0.126	387.3	0.056
179.3	0.125	387.5	0.054
179.5	0.126	387.8	0.057
179.8	0.124	388.	0.055
180.	0.124	388.3	0.058
180.3	0.122	388.5	0.058
180.5	0.123	388.8	0.055
180.8	0.148	389.	0.058
181.	0.145	389.3	0.055
181.3	0.151	389.5	0.056
181.5	0.151	389.8	0.055
181.8	0.158	390.	0.057
182.	0.155	390.3	0.056
182.3	0.152	390.5	0.058
182.5	0.185	390.8	0.054
182.8	0.174	391.	0.056
183.	0.17	391.3	0.056
183.3	0.169	391.5	0.055
183.5	0.165	391.8	0.057
183.8	0.164	392.	0.056
184.	0.164	392.3	0.057
184.3	0.167	392.5	0.056
184.5	0.165	392.8	0.059
184.8	0.167	393.	0.054
185.	0.164	393.3	0.056
185.3	0.163	393.5	0.056
185.5	0.163	393.8	0.056
185.8	0.165	394.	0.057
186.	0.163	394.3	0.054
186.3	0.161	394.5	0.058
186.5	0.159	394.8	0.054
186.8	0.161	395.	0.057
187.	0.157	395.3	0.056
187.3	0.159	395.5	0.052
187.5	0.156	395.8	0.054
187.8	0.155	396.	0.053
188.	0.155	396.3	0.055
188.3	0.155	396.5	0.056
188.5	0.153	396.8	0.055
188.8	0.152	397.	0.056
189.	0.147	397.3	0.052
189.3	0.146	397.5	0.057
189.5	0.149	397.8	0.053
189.8	0.146	398.	0.056
190.	0.144	398.3	0.054
190.3	0.145	398.5	0.056
190.5	0.144	398.8	0.053
190.8	0.142	399.	0.055
191.	0.139	399.3	0.053
191.3	0.137	399.5	0.053
191.5	0.134	399.8	0.054
191.8	0.135	400.	0.053
192.	0.134	400.3	0.052
192.3	0.133	400.5	0.053
192.5	0.133	400.8	0.054
192.8	0.139	401.	0.05
193.	0.164	401.3	0.053

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
193.3	0.164	401.5	0.051
193.5	0.166	401.8	0.054
193.8	0.165	402.	0.052
194.	0.168	402.3	0.051
194.3	0.166	402.5	0.052
194.5	0.164	402.8	0.052
194.8	0.162	403.	0.051
195.	0.16	403.3	0.054
195.3	0.158	403.5	0.054
195.5	0.157	403.8	0.054
195.8	0.153	404.	0.052
196.	0.153	404.3	0.054
196.3	0.174	404.5	0.053
196.5	0.173	404.8	0.053
196.8	0.171	405.	0.056
197.	0.169	405.3	0.054
197.3	0.169	405.5	0.055
197.5	0.168	405.8	0.054
197.8	0.171	406.	0.056
198.	0.168	406.3	0.049
198.3	0.171	406.5	0.056
198.5	0.169	406.8	0.054
198.8	0.169	407.	0.052
199.	0.17	407.3	0.054
199.3	0.166	407.5	0.05
199.5	0.168	407.8	0.052
199.8	0.165	408.	0.051
200.	0.166	408.3	0.052
200.3	0.166	408.5	0.053
200.5	0.165	408.8	0.055
200.8	0.165	409.	0.052
201.	0.163	409.3	0.054
201.3	0.162	409.5	0.053
201.5	0.161	409.8	0.052
201.8	0.161	410.	0.051
202.	0.16	410.3	0.049
202.3	0.16	410.5	0.051
202.5	0.157	410.8	0.051
202.8	0.158	411.	0.054
203.	0.153	411.3	0.049
203.3	0.157	411.5	0.051
203.5	0.154	411.8	0.048
203.8	0.155	412.	0.051
204.	0.153	412.3	0.051
204.3	0.157	412.5	0.051
204.5	0.153	412.8	0.05
204.8	0.152	413.	0.049
205.	0.148	413.3	0.051
205.3	0.151	413.5	0.051
205.5	0.148	413.8	0.048
205.8	0.149	414.	0.051
206.	0.148	414.3	0.05
206.3	0.15	414.5	0.051
206.5	0.149	414.8	0.052
206.8	0.15	415.	0.05
207.	0.146	415.3	0.048
207.3	0.145	415.5	0.048
207.5	0.148	415.8	0.053
207.8	0.146	416.	0.05
208.	0.144	416.3	0.05
208.3	0.144	416.5	0.05
208.5	0.144	416.8	0.051
208.8	0.143	417.	0.05
209.	0.142	417.3	0.048
209.3	0.141	417.5	0.046

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.000442	cm/sec
Ss	0.0005249	ft^{-1}
Kz/Kr	1.	

T = K*b = 0.3851 cm²/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	0.0004384	3.65E-6	+/- 7.158E-6	120.1	cm/sec
Ss	0.0005249	1.781E-5	+/- 3.493E-5	29.47	ft^{-1}
Kz/Kr	1.	not estimated			

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 0.3821 cm²/sec

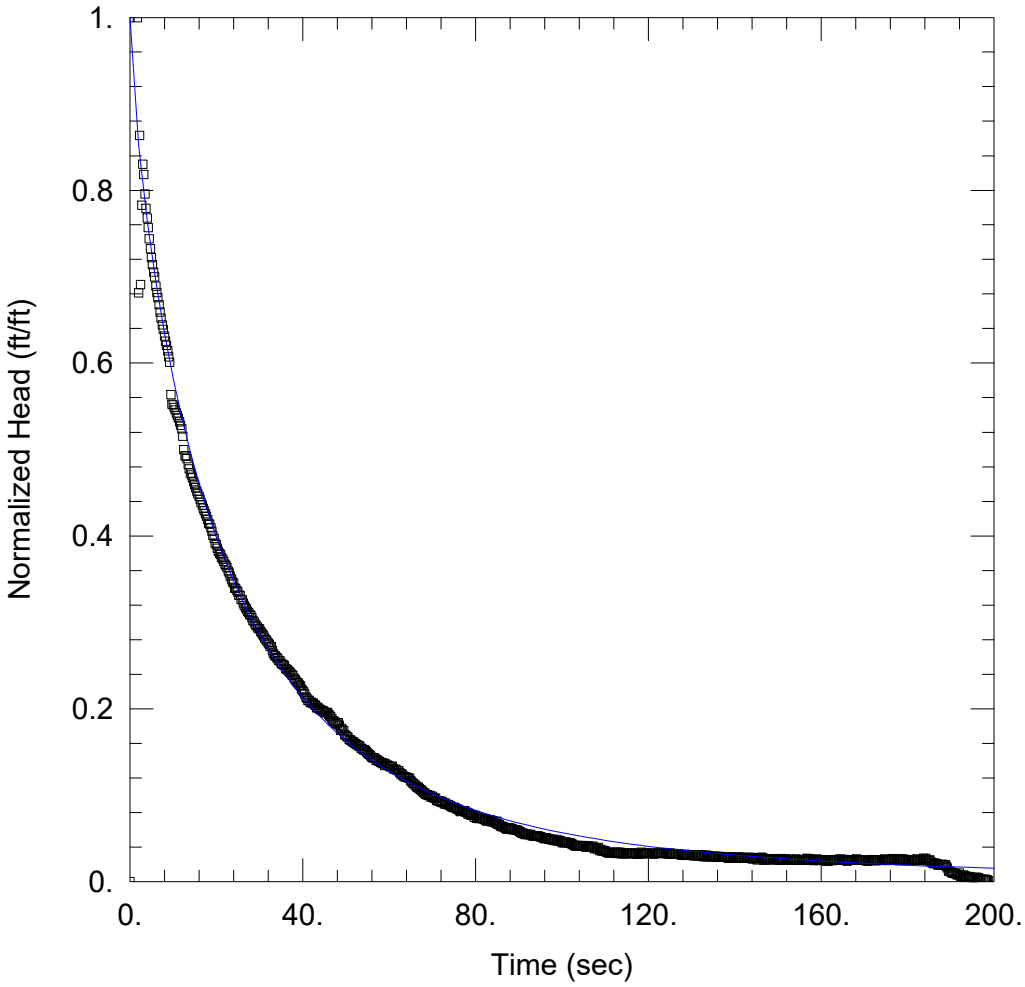
Parameter Correlations

	Kr	Ss
Kr	1.00	-0.91
Ss	-0.91	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 2.136 ft^2
Variance . . . . . 0.001284 ft^2
Std. Deviation . . . . . 0.03583 ft
Mean . . . . . 0.001936 ft
No. of Residuals 1666
No. of Estimates 2



MW-115 RISING HEAD 01

Data Set: Z:\...\MW-115 Rising Head 01.aqt
Date: 10/07/25 Time: 09:06:11

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-115
Test Well: MW-115
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 28.59 ft

WELL DATA (MW-115)

Initial Displacement: 2.159 ft
Total Well Penetration Depth: 28.59 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 28.59 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.0009945 cm/sec
Ss = 6.165E-5 ft^{-1}
Kz/Kr = 1.

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-115 Rising Head 01
Date: 10/07/25
Time: 09:06:32

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-115
Test Date: 9/18/25
Test Well: MW-115

AQUIFER DATA

Saturated Thickness: 28.59 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-115

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.159 ft
Static Water Column Height: 28.59 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 28.59 ft

No. of Observations: 790

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.	100.3	0.098
1.75	2.159	100.5	0.096
2.	1.471	100.8	0.099
2.25	1.864	101.	0.098
2.5	1.492	101.3	0.098
2.75	1.69	101.5	0.096
3.	1.792	101.8	0.097
3.25	1.767	102.	0.096
3.5	1.718	102.3	0.094
3.75	1.682	102.5	0.093
4.	1.658	102.8	0.091
4.25	1.634	103.	0.089
4.5	1.606	103.3	0.088
4.75	1.581	103.5	0.09
5.	1.559	103.8	0.09
5.25	1.541	104.	0.09
5.5	1.523	104.3	0.089
5.75	1.511	104.5	0.089
6.	1.488	104.8	0.088
6.25	1.472	105.	0.09
6.5	1.459	105.3	0.088
6.75	1.441	105.5	0.086
7.	1.423	105.8	0.087
7.25	1.408	106.	0.088
7.5	1.391	106.3	0.089
7.75	1.38	106.5	0.086
8.	1.363	106.8	0.086
8.25	1.35	107.	0.086
8.5	1.34	107.3	0.088
8.75	1.326	107.5	0.082
9.	1.311	107.8	0.084

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
9.25	1.297	108.	0.084
9.5	1.217	108.3	0.081
9.75	1.193	108.5	0.085
10.	1.191	108.8	0.077
10.25	1.185	109.	0.08
10.5	1.178	109.3	0.076
10.75	1.171	109.5	0.076
11.	1.165	109.8	0.078
11.25	1.158	110.	0.076
11.5	1.149	110.3	0.074
11.75	1.14	110.5	0.072
12.	1.131	110.8	0.072
12.25	1.113	111.	0.071
12.5	1.079	111.3	0.073
12.75	1.063	111.5	0.071
13.	1.064	111.8	0.072
13.25	1.057	112.	0.071
13.5	1.042	112.3	0.071
13.75	1.031	112.5	0.073
14.	1.021	112.8	0.07
14.25	1.016	113.	0.073
14.5	1.009	113.3	0.072
14.75	0.999	113.5	0.073
15.	0.992	113.8	0.069
15.25	0.984	114.	0.071
15.5	0.975	114.3	0.069
15.75	0.969	114.5	0.071
16.	0.962	114.8	0.07
16.25	0.955	115.	0.071
16.5	0.947	115.3	0.07
16.75	0.941	115.5	0.069
17.	0.933	115.8	0.071
17.25	0.926	116.	0.07
17.5	0.919	116.3	0.071
17.75	0.913	116.5	0.071
18.	0.904	116.8	0.071
18.25	0.895	117.	0.07
18.5	0.893	117.3	0.069
18.75	0.884	117.5	0.068
19.	0.875	117.8	0.068
19.25	0.865	118.	0.071
19.5	0.858	118.3	0.069
19.75	0.846	118.5	0.073
20.	0.842	118.8	0.069
20.25	0.833	119.	0.071
20.5	0.825	119.3	0.07
20.75	0.82	119.5	0.071
21.	0.817	119.8	0.071
21.25	0.81	120.	0.07
21.5	0.806	120.3	0.071
21.75	0.8	120.5	0.07
22.	0.793	120.8	0.071
22.25	0.79	121.	0.069
22.5	0.785	121.3	0.069
22.75	0.776	121.5	0.069
23.	0.771	121.8	0.07
23.25	0.763	122.	0.07
23.5	0.756	122.3	0.071
23.75	0.749	122.5	0.071
24.	0.746	122.8	0.071
24.25	0.733	123.	0.071
24.5	0.733	123.3	0.071
24.75	0.727	123.5	0.071
25.	0.723	123.8	0.072
25.25	0.715	124.	0.069
25.5	0.715	124.3	0.07
25.75	0.705	124.5	0.07

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
26.	0.704	124.8	0.068
26.25	0.696	125.	0.071
26.5	0.69	125.3	0.071
26.75	0.685	125.5	0.069
27.	0.681	125.8	0.069
27.25	0.675	126.	0.07
27.5	0.672	126.3	0.069
27.75	0.667	126.5	0.068
28.	0.665	126.8	0.069
28.25	0.659	127.	0.068
28.5	0.652	127.3	0.068
28.75	0.649	127.5	0.067
29.	0.643	127.8	0.066
29.25	0.64	128.	0.066
29.5	0.636	128.3	0.067
29.75	0.632	128.5	0.068
30.	0.631	128.8	0.065
30.25	0.625	129.	0.066
30.5	0.622	129.3	0.066
30.75	0.618	129.5	0.066
31.	0.614	129.8	0.067
31.25	0.608	130.	0.066
31.5	0.604	130.3	0.066
31.75	0.601	130.5	0.064
32.	0.596	130.8	0.064
32.25	0.593	131.	0.067
32.5	0.587	131.3	0.064
32.75	0.587	131.5	0.064
33.	0.577	131.8	0.065
33.25	0.57	132.	0.065
33.5	0.565	132.3	0.066
33.75	0.563	132.5	0.066
34.	0.559	132.8	0.062
34.25	0.557	133.	0.065
34.5	0.552	133.3	0.062
34.75	0.551	133.5	0.066
35.	0.546	133.8	0.062
35.25	0.543	134.	0.064
35.5	0.542	134.3	0.063
35.75	0.54	134.5	0.062
36.	0.533	134.8	0.062
36.25	0.53	135.	0.063
36.5	0.53	135.3	0.063
36.75	0.526	135.5	0.063
37.	0.523	135.8	0.06
37.25	0.521	136.	0.063
37.5	0.516	136.3	0.062
37.75	0.515	136.5	0.063
38.	0.508	136.8	0.062
38.25	0.505	137.	0.061
38.5	0.501	137.3	0.061
38.75	0.497	137.5	0.061
39.	0.496	137.8	0.061
39.25	0.491	138.	0.061
39.5	0.489	138.3	0.061
39.75	0.481	138.5	0.058
40.	0.477	138.8	0.061
40.25	0.474	139.	0.062
40.5	0.468	139.3	0.06
40.75	0.461	139.5	0.059
41.	0.458	139.8	0.058
41.25	0.452	140.	0.058
41.5	0.453	140.3	0.059
41.75	0.447	140.5	0.059
42.	0.448	140.8	0.061
42.25	0.445	141.	0.059
42.5	0.446	141.3	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
42.75	0.442	141.5	0.059
43.	0.44	141.8	0.059
43.25	0.434	142.	0.06
43.5	0.435	142.3	0.059
43.75	0.432	142.5	0.058
44.	0.43	142.8	0.059
44.25	0.429	143.	0.058
44.5	0.427	143.3	0.06
44.75	0.427	143.5	0.059
45.	0.424	143.8	0.06
45.25	0.422	144.	0.056
45.5	0.422	144.3	0.057
45.75	0.423	144.5	0.059
46.02	0.418	144.8	0.058
46.25	0.414	145.	0.057
46.5	0.412	145.3	0.054
46.76	0.407	145.5	0.058
47.	0.402	145.8	0.058
47.25	0.401	146.	0.06
47.51	0.399	146.3	0.056
47.75	0.395	146.5	0.06
48.	0.394	146.8	0.053
48.25	0.397	147.	0.057
48.5	0.391	147.3	0.057
48.75	0.378	147.5	0.055
49.	0.383	147.8	0.054
49.25	0.379	148.	0.056
49.5	0.377	148.3	0.056
49.75	0.367	148.5	0.057
50.	0.365	148.8	0.054
50.25	0.362	149.	0.056
50.5	0.361	149.3	0.056
50.75	0.355	149.5	0.056
51.	0.355	149.8	0.055
51.25	0.352	150.	0.054
51.5	0.349	150.3	0.054
51.75	0.349	150.5	0.057
52.	0.346	150.8	0.053
52.25	0.344	151.	0.057
52.5	0.343	151.3	0.055
52.75	0.341	151.5	0.053
53.	0.339	151.8	0.056
53.25	0.339	152.	0.056
53.5	0.333	152.3	0.055
53.75	0.332	152.5	0.055
54.	0.329	152.8	0.053
54.25	0.329	153.	0.053
54.5	0.328	153.3	0.055
54.75	0.324	153.5	0.053
55.	0.321	153.8	0.053
55.25	0.319	154.	0.055
55.5	0.317	154.3	0.056
55.75	0.314	154.5	0.055
56.	0.31	154.8	0.053
56.25	0.309	155.	0.054
56.5	0.309	155.3	0.055
56.75	0.308	155.5	0.054
57.	0.303	155.8	0.055
57.25	0.304	156.	0.054
57.5	0.301	156.3	0.054
57.75	0.3	156.5	0.054
58.	0.298	156.8	0.058
58.25	0.297	157.	0.056
58.5	0.295	157.3	0.053
58.75	0.296	157.5	0.056
59.	0.29	157.8	0.053
59.25	0.294	158.	0.053

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
59.5	0.291	158.3	0.052
59.75	0.291	158.5	0.054
60.	0.288	158.8	0.054
60.25	0.287	159.	0.056
60.5	0.287	159.3	0.055
60.75	0.288	159.5	0.052
61.	0.282	159.8	0.054
61.25	0.281	160.	0.053
61.5	0.28	160.3	0.055
61.75	0.279	160.5	0.053
62.	0.277	160.8	0.053
62.25	0.277	161.	0.053
62.5	0.272	161.3	0.051
62.75	0.268	161.5	0.053
63.	0.269	161.8	0.051
63.25	0.264	162.	0.054
63.5	0.263	162.3	0.053
63.75	0.261	162.5	0.054
64.	0.26	162.8	0.052
64.25	0.26	163.	0.055
64.5	0.259	163.3	0.053
64.75	0.258	163.5	0.055
65.	0.252	163.8	0.053
65.25	0.249	164.	0.055
65.5	0.246	164.3	0.053
65.75	0.244	164.5	0.056
66.	0.241	164.8	0.055
66.25	0.239	165.	0.055
66.5	0.235	165.3	0.055
66.75	0.236	165.5	0.054
67.	0.232	165.8	0.055
67.25	0.23	166.	0.051
67.5	0.228	166.3	0.054
67.75	0.225	166.5	0.053
68.	0.222	166.8	0.055
68.25	0.221	167.	0.054
68.5	0.218	167.3	0.054
68.75	0.216	167.5	0.053
69.	0.217	167.8	0.054
69.25	0.215	168.	0.055
69.5	0.215	168.3	0.056
69.75	0.211	168.5	0.053
70.	0.213	168.8	0.055
70.25	0.21	169.	0.054
70.5	0.208	169.3	0.054
70.75	0.208	169.5	0.053
71.	0.203	169.8	0.053
71.25	0.202	170.	0.053
71.5	0.201	170.3	0.052
71.75	0.201	170.5	0.052
72.	0.198	170.8	0.051
72.25	0.2	171.	0.052
72.5	0.197	171.3	0.052
72.75	0.194	171.5	0.053
73.	0.196	171.8	0.055
73.25	0.193	172.	0.053
73.5	0.192	172.3	0.054
73.75	0.192	172.5	0.052
74.	0.19	172.8	0.052
74.25	0.189	173.	0.052
74.5	0.187	173.3	0.053
74.75	0.185	173.5	0.054
75.	0.185	173.8	0.054
75.25	0.185	174.	0.053
75.5	0.183	174.3	0.053
75.75	0.181	174.5	0.054
76.	0.18	174.8	0.056

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
76.25	0.178	175.	0.054
76.5	0.175	175.3	0.052
76.75	0.177	175.5	0.054
77.	0.177	175.8	0.054
77.25	0.176	176.	0.053
77.5	0.177	176.3	0.054
77.75	0.173	176.5	0.057
78.	0.173	176.8	0.053
78.25	0.168	177.	0.057
78.5	0.171	177.3	0.054
78.75	0.167	177.5	0.055
79.	0.166	177.8	0.052
79.25	0.165	178.	0.055
79.5	0.165	178.3	0.052
79.75	0.16	178.5	0.056
80.	0.165	178.8	0.053
80.25	0.158	179.	0.056
80.5	0.161	179.3	0.052
80.75	0.157	179.5	0.055
81.	0.158	179.8	0.054
81.25	0.158	180.	0.052
81.5	0.158	180.3	0.052
81.75	0.156	180.5	0.055
82.	0.157	180.8	0.052
82.25	0.154	181.	0.053
82.5	0.152	181.3	0.054
82.75	0.151	181.5	0.055
83.	0.155	181.8	0.054
83.25	0.152	182.	0.054
83.5	0.154	182.3	0.056
83.75	0.149	182.5	0.055
84.	0.152	182.8	0.053
84.25	0.148	183.	0.053
84.5	0.15	183.3	0.055
84.75	0.145	183.5	0.055
85.	0.151	183.8	0.058
85.25	0.143	184.	0.054
85.5	0.143	184.3	0.058
85.75	0.139	184.5	0.052
86.	0.137	184.8	0.052
86.25	0.138	185.	0.052
86.5	0.136	185.3	0.054
86.75	0.135	185.5	0.048
87.	0.133	185.8	0.047
87.25	0.131	186.	0.044
87.5	0.132	186.3	0.046
87.75	0.135	186.5	0.045
88.	0.134	186.8	0.045
88.25	0.13	187.	0.041
88.5	0.132	187.3	0.042
88.75	0.13	187.5	0.042
89.	0.129	187.8	0.042
89.25	0.129	188.	0.043
89.5	0.128	188.3	0.043
89.75	0.128	188.5	0.041
90.	0.126	188.8	0.042
90.25	0.125	189.	0.038
90.5	0.123	189.3	0.034
90.75	0.12	189.5	0.026
91.	0.121	189.8	0.025
91.25	0.119	190.	0.024
91.5	0.117	190.3	0.022
91.75	0.119	190.5	0.021
92.	0.118	190.8	0.02
92.25	0.117	191.	0.021
92.5	0.117	191.3	0.019
92.75	0.118	191.5	0.016

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
93.	0.115	191.8	0.017
93.25	0.114	192.	0.021
93.5	0.114	192.3	0.013
93.75	0.113	192.5	0.015
94.	0.114	192.8	0.013
94.25	0.114	193.	0.016
94.5	0.114	193.3	0.011
94.75	0.112	193.5	0.014
95.	0.112	193.8	0.008
95.25	0.111	194.	0.009
95.5	0.11	194.3	0.007
95.75	0.108	194.5	0.012
96.	0.107	194.8	0.009
96.25	0.109	195.	0.01
96.5	0.109	195.3	0.008
96.75	0.107	195.5	0.01
97.	0.106	195.8	0.005
97.25	0.107	196.	0.011
97.5	0.104	196.3	0.005
97.75	0.104	196.5	0.009
98.	0.105	196.8	0.007
98.25	0.103	197.	0.004
98.5	0.102	197.3	0.006
98.75	0.105	197.5	0.004
99.	0.101	197.8	0.002
99.25	0.102	198.	0.006
99.5	0.103	198.3	0.003
99.75	0.101	198.5	0.004
100.	0.097	198.8	0.002

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.0009945	cm/sec
Ss	6.165E-5	ft^{-1}
Kz/Kr	1.	

T = K*b = 0.8667 cm²/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

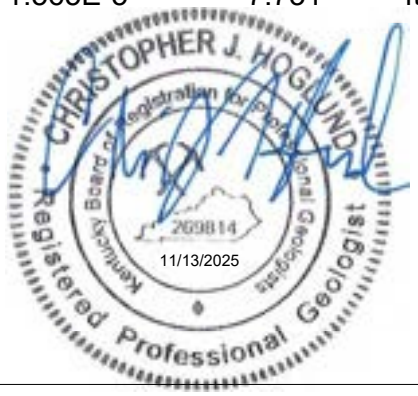
Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	0.001008	1.778E-5	+/- 3.49E-5	56.69	cm/sec
Ss	6.165E-5	7.975E-6	+/- 1.565E-5	7.731	ft^{-1}
Kz/Kr	1.	not estimated			

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 0.8783 cm²/sec

Parameter Correlations

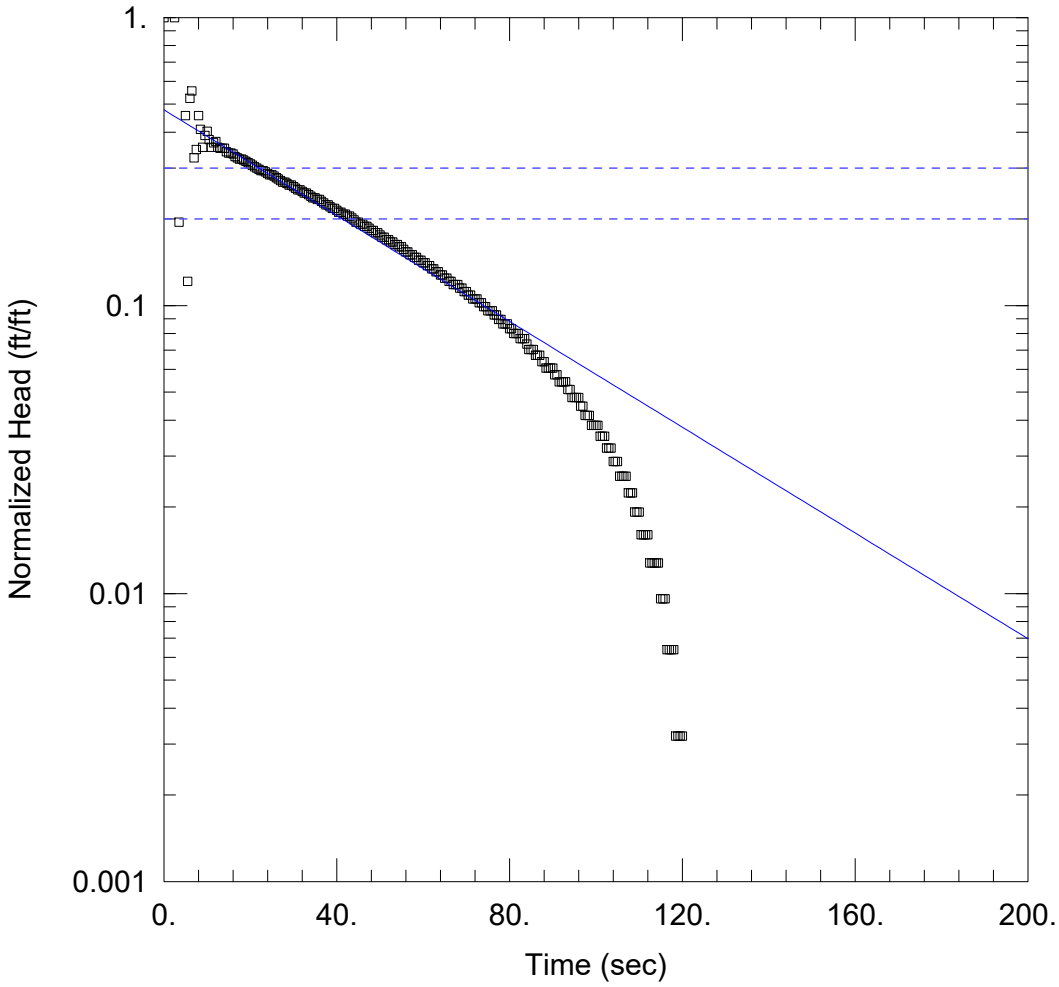
	Kr	Ss
Kr	1.00	-0.86
Ss	-0.86	1.00



Residual Statistics

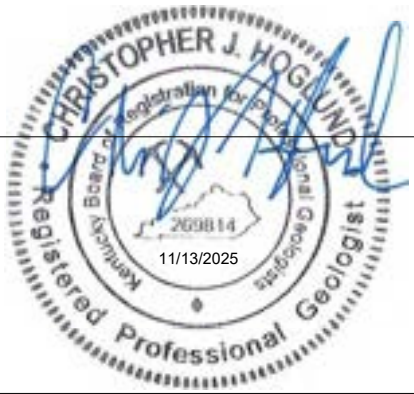
for weighted residuals

Sum of Squares	5.209 ft^2
Variance	0.00661 ft^2
Std. Deviation	0.0813 ft
Mean	-0.00527 ft
No. of Residuals	790
No. of Estimates	2



MW-116 RISING HEAD 01

Data Set: Z:\...\MW-116 Rising Head 01.aqt
Date: 10/07/25 Time: 10:47:43



PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-116
Test Well: MW-116
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 15.69 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-116)

Initial Displacement: 3.13 ft
Total Well Penetration Depth: 15.69 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 15.69 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0005193 cm/sec
y0 = 1.495 ft

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-116 Rising Head 01
Date: 10/07/25
Time: 10:49:11

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-116
Test Date: 9/18/25
Test Well: MW-116

AQUIFER DATA

Saturated Thickness: 15.69 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-116

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 3.13 ft
Static Water Column Height: 15.69 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15.69 ft

No. of Observations: 237

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.	62.	0.42
2.5	3.13	62.5	0.42
3.	-1.27	63.	0.41
3.5	0.61	63.5	0.41
4.	0.	64.	0.4
5.	1.43	64.5	0.4
5.5	0.38	65.	0.39
6.	1.64	65.5	0.39
6.5	1.74	66.	0.38
7.	1.02	66.5	0.38
7.5	1.09	67.	0.37
8.	1.43	67.5	0.37
8.5	1.28	68.	0.37
9.	1.11	68.5	0.36
9.5	1.22	69.	0.36
10.	1.26	69.5	0.35
10.5	1.18	70.	0.35
11.	1.11	70.5	0.34
11.5	1.15	71.	0.34
12.	1.16	71.5	0.33
12.5	1.11	72.	0.33
13.	1.1	72.5	0.33
13.5	1.1	73.	0.32
14.	1.1	73.5	0.32
14.5	1.07	74.	0.31
15.	1.06	74.5	0.31
15.5	1.06	75.	0.3
16.	1.05	75.5	0.3
16.5	1.03	76.	0.3
17.	1.02	76.5	0.29
17.5	1.01	77.	0.29

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
18.	1.01	77.5	0.28
18.5	1.	78.	0.28
19.	0.99	78.5	0.27
19.5	0.98	79.	0.27
20.	0.97	79.5	0.27
20.5	0.96	80.	0.26
21.	0.95	80.5	0.26
21.5	0.94	81.	0.25
22.	0.93	81.5	0.25
22.5	0.92	82.	0.25
23.	0.92	82.5	0.24
23.5	0.91	83.	0.24
24.	0.9	83.5	0.24
24.5	0.89	84.	0.23
25.	0.89	84.5	0.22
25.5	0.88	85.	0.22
26.	0.87	85.5	0.22
26.5	0.86	86.	0.21
27.	0.85	86.5	0.21
27.5	0.84	87.	0.21
28.	0.84	87.5	0.2
28.5	0.83	88.	0.2
29.	0.82	88.5	0.19
29.5	0.82	89.	0.19
30.	0.81	89.5	0.19
30.5	0.8	90.	0.19
31.	0.79	90.5	0.18
31.5	0.79	91.	0.18
32.	0.78	91.5	0.17
32.5	0.77	92.	0.17
33.	0.77	92.5	0.17
33.5	0.76	93.	0.17
34.	0.75	93.5	0.16
34.5	0.74	94.	0.16
35.	0.74	94.5	0.15
35.5	0.73	95.	0.15
36.	0.73	95.5	0.15
36.5	0.72	96.	0.15
37.	0.71	96.5	0.14
37.5	0.7	97.	0.14
38.	0.7	97.5	0.13
38.5	0.69	98.	0.13
39.	0.68	98.5	0.13
39.5	0.68	99.	0.12
40.	0.67	99.5	0.12
40.5	0.66	100.	0.12
41.	0.66	100.5	0.12
41.5	0.65	101.	0.11
42.	0.65	101.5	0.11
42.5	0.64	102.	0.11
43.	0.64	102.5	0.1
43.5	0.63	103.	0.1
44.	0.62	103.5	0.1
44.5	0.61	104.	0.09
45.	0.61	104.5	0.09
45.5	0.6	105.	0.09
46.	0.6	105.5	0.08
46.5	0.59	106.	0.08
47.	0.59	106.5	0.08
47.5	0.58	107.	0.08
48.	0.57	107.5	0.07
48.5	0.57	108.	0.07
49.	0.56	108.5	0.07
49.5	0.56	109.	0.06
50.	0.55	109.5	0.06
50.5	0.54	110.	0.06
51.	0.54	110.5	0.05

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
51.5	0.53	111.	0.05
52.	0.53	111.5	0.05
52.5	0.52	112.	0.05
53.	0.52	112.5	0.04
53.5	0.51	113.	0.04
54.	0.51	113.5	0.04
54.5	0.5	114.	0.04
55.	0.5	114.5	0.04
55.5	0.49	115.	0.03
56.	0.48	115.5	0.03
56.5	0.48	116.	0.03
57.	0.47	116.5	0.02
57.5	0.47	117.	0.02
58.	0.46	117.5	0.02
58.5	0.46	118.	0.02
59.	0.45	118.5	0.01
59.5	0.45	119.	0.01
60.	0.44	119.5	0.01
60.5	0.44	120.	0.01
61.	0.43	120.5	0.
61.5	0.43		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.094

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0005193	cm/sec
y0	1.495	ft

T = K*b = 0.2483 cm²/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	0.0004628	3.043E-5	+/- 5.994E-5	15.21	cm/sec
y0	1.302	0.05749	+/- 0.1133	22.65	ft

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 0.2213 cm²/sec

Parameter Correlations

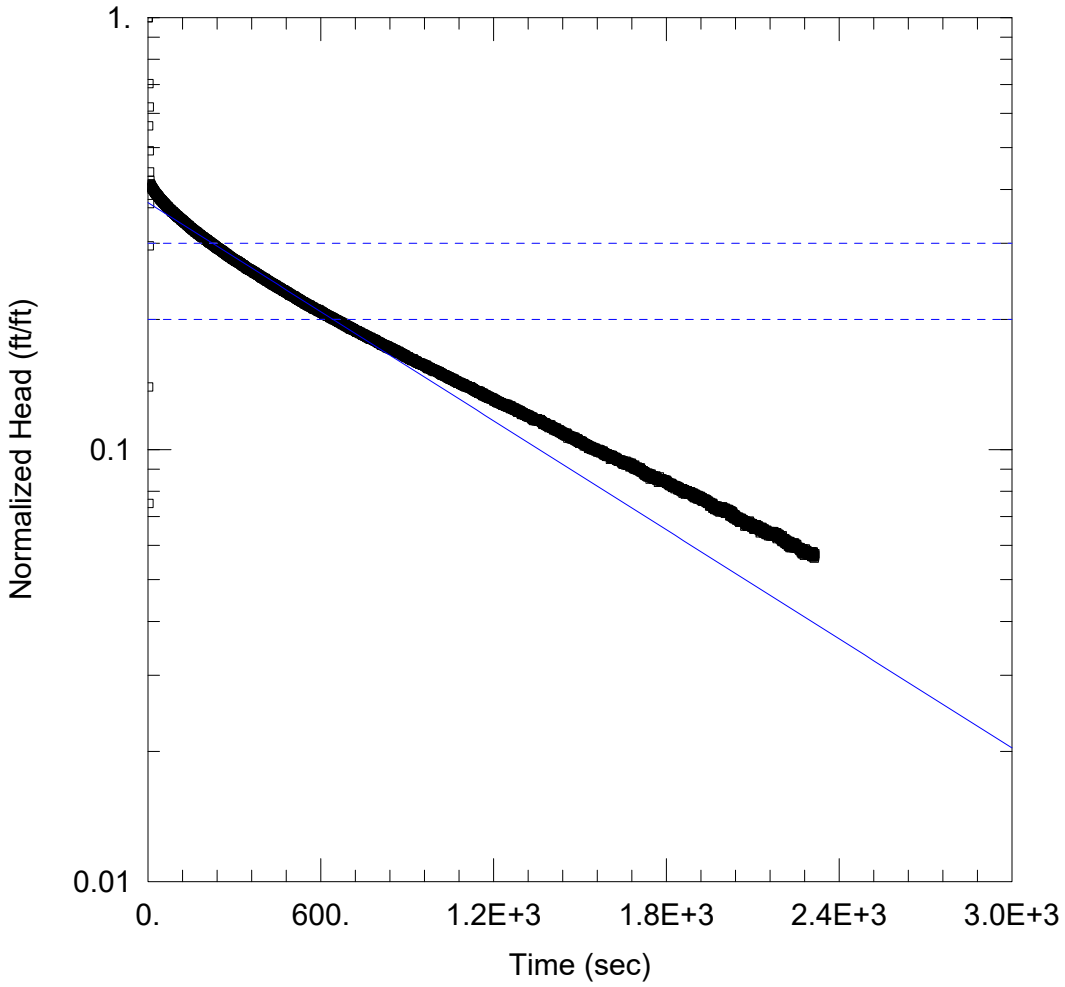
	K	y0
K	1.00	0.76
y0	0.76	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 15.81 ft^2
Variance . . . . . 0.06727 ft^2
Std. Deviation . . . . . 0.2594 ft
Mean . . . . . -0.01318 ft

No. of Residuals 237
No. of Estimates 2



MW-117 FALLING HEAD 01

Data Set: Z:\...\MW-117 Falling Head 01.aqt
Date: 10/07/25 Time: 09:41:35

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-117
Test Well: MW-117
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 11.14 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-117)

Initial Displacement: 2.107 ft
Total Well Penetration Depth: 11.14 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 11.14 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 2.216E-5 cm/sec
Solution Method: Bouwer-Rice
y0 = 0.7858 ft

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-117 Falling Head 01
Date: 10/07/25
Time: 09:42:06

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-117
Test Date: 9/18/25
Test Well: MW-117

AQUIFER DATA

Saturated Thickness: 11.14 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-117

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.107 ft
Static Water Column Height: 11.14 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 11.14 ft

No. of Observations: 4629

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2.	2.107	1159.5	0.285
2.5	0.294	1160.	0.283
3.	1.183	1160.5	0.283
3.5	1.482	1161.	0.283
4.	0.158	1161.5	0.282
4.5	1.308	1162.	0.284
5.	0.624	1162.5	0.281
5.5	1.036	1163.	0.284
6.	0.782	1163.5	0.282
6.5	0.926	1164.	0.283
7.	0.844	1164.5	0.281
7.5	0.883	1165.	0.282
8.	0.863	1165.5	0.282
8.5	0.869	1166.	0.284
9.	0.866	1166.5	0.282
9.5	0.861	1167.	0.281
10.	0.863	1167.5	0.283
10.5	0.857	1168.	0.282
11.	0.861	1168.5	0.282
11.5	0.856	1169.	0.281
12.	0.858	1169.5	0.282
12.5	0.856	1170.	0.28
13.	0.855	1170.5	0.282
13.5	0.851	1171.	0.281
14.	0.853	1171.5	0.281
14.5	0.85	1172.	0.28
15.	0.851	1172.5	0.282
15.5	0.848	1173.	0.281
16.	0.848	1173.5	0.28
16.5	0.845	1174.	0.279
17.	0.846	1174.5	0.282

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
17.5	0.844	1175.	0.279
18.	0.844	1175.5	0.28
18.5	0.842	1176.	0.279
19.	0.842	1176.5	0.28
19.5	0.84	1177.	0.279
20.	0.84	1177.5	0.28
20.5	0.838	1178.	0.279
21.	0.838	1178.5	0.28
21.5	0.836	1179.	0.279
22.	0.836	1179.5	0.28
22.5	0.834	1180.	0.278
23.	0.834	1180.5	0.28
23.5	0.833	1181.	0.278
24.	0.831	1181.5	0.278
24.5	0.83	1182.	0.278
25.	0.83	1182.5	0.277
25.5	0.828	1183.	0.28
26.	0.829	1183.5	0.279
26.5	0.828	1184.	0.278
27.	0.826	1184.5	0.279
27.5	0.826	1185.	0.277
28.	0.826	1185.5	0.278
28.5	0.822	1186.	0.277
29.	0.823	1186.5	0.279
29.5	0.823	1187.	0.278
30.	0.822	1187.5	0.277
30.5	0.82	1188.	0.277
31.	0.82	1188.5	0.277
31.5	0.818	1189.	0.277
32.	0.817	1189.5	0.276
32.5	0.817	1190.	0.277
33.	0.818	1190.5	0.278
33.5	0.814	1191.	0.277
34.	0.815	1191.5	0.276
34.5	0.814	1192.	0.278
35.	0.815	1192.5	0.276
35.5	0.813	1193.	0.277
36.	0.813	1193.5	0.277
36.5	0.811	1194.	0.277
37.	0.811	1194.5	0.276
37.5	0.809	1195.	0.277
38.	0.809	1195.5	0.277
38.5	0.807	1196.	0.276
39.	0.808	1196.5	0.276
39.5	0.807	1197.	0.276
40.	0.806	1197.5	0.275
40.5	0.805	1198.	0.277
41.	0.805	1198.5	0.276
41.5	0.801	1199.	0.275
42.	0.803	1199.5	0.275
42.5	0.802	1200.	0.274
43.	0.802	1200.5	0.275
43.5	0.799	1201.	0.275
44.	0.801	1201.5	0.275
44.5	0.798	1202.	0.273
45.	0.799	1202.5	0.275
45.5	0.797	1203.	0.274
46.	0.798	1203.5	0.275
46.5	0.794	1204.	0.274
47.	0.796	1204.5	0.275
47.5	0.796	1205.	0.274
48.	0.795	1205.5	0.274
48.5	0.795	1206.	0.273
49.	0.793	1206.5	0.273
49.5	0.794	1207.	0.274
50.	0.791	1207.5	0.273
50.5	0.791	1208.	0.274

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
51.	0.788	1208.5	0.273
51.5	0.791	1209.	0.272
52.	0.788	1209.5	0.272
52.5	0.789	1210.	0.273
53.	0.786	1210.5	0.273
53.5	0.787	1211.	0.272
54.	0.785	1211.5	0.272
54.5	0.786	1212.	0.271
55.	0.785	1212.5	0.272
55.5	0.785	1213.	0.273
56.	0.783	1213.5	0.272
56.5	0.783	1214.	0.271
57.	0.781	1214.5	0.27
57.5	0.783	1215.	0.271
58.	0.78	1215.5	0.273
58.5	0.781	1216.	0.272
59.	0.779	1216.5	0.271
59.5	0.781	1217.	0.272
60.	0.778	1217.5	0.271
60.5	0.779	1218.	0.271
61.	0.776	1218.5	0.272
61.5	0.777	1219.	0.27
62.	0.776	1219.5	0.271
62.5	0.776	1220.	0.27
63.	0.775	1220.5	0.272
63.5	0.774	1221.	0.27
64.	0.772	1221.5	0.27
64.5	0.772	1222.	0.27
65.	0.771	1222.5	0.271
65.5	0.771	1223.	0.269
66.	0.771	1223.5	0.27
66.5	0.771	1224.	0.269
67.	0.768	1224.5	0.27
67.5	0.77	1225.	0.27
68.	0.767	1225.5	0.27
68.5	0.77	1226.	0.27
69.	0.768	1226.5	0.269
69.5	0.768	1227.	0.268
70.	0.766	1227.5	0.27
70.5	0.766	1228.	0.268
71.	0.764	1228.5	0.27
71.5	0.764	1229.	0.268
72.	0.763	1229.5	0.269
72.5	0.762	1230.	0.269
73.	0.762	1230.5	0.268
73.5	0.761	1231.	0.268
74.	0.759	1231.5	0.268
74.5	0.762	1232.	0.267
75.	0.761	1232.5	0.268
75.5	0.76	1233.	0.268
76.	0.758	1233.5	0.269
76.5	0.759	1234.	0.267
77.	0.757	1234.5	0.269
77.5	0.758	1235.	0.269
78.	0.756	1235.5	0.268
78.5	0.756	1236.	0.267
79.	0.755	1236.5	0.268
79.5	0.757	1237.	0.267
80.	0.754	1237.5	0.268
80.5	0.754	1238.	0.267
81.	0.751	1238.5	0.267
81.5	0.754	1239.	0.267
82.	0.752	1239.5	0.268
82.5	0.752	1240.	0.268
83.	0.749	1240.5	0.266
83.5	0.75	1241.	0.266
84.	0.748	1241.5	0.267

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
84.5	0.75	1242.	0.266
85.	0.748	1242.5	0.267
85.5	0.748	1243.	0.268
86.	0.747	1243.5	0.267
86.5	0.748	1244.	0.266
87.	0.747	1244.5	0.266
87.5	0.747	1245.	0.267
88.	0.746	1245.5	0.266
88.5	0.746	1246.	0.266
89.	0.744	1246.5	0.265
89.5	0.744	1247.	0.265
90.	0.743	1247.5	0.268
90.5	0.743	1248.	0.264
91.	0.742	1248.5	0.266
91.5	0.743	1249.	0.266
92.	0.741	1249.5	0.265
92.5	0.741	1250.	0.265
93.	0.739	1250.5	0.267
93.5	0.741	1251.	0.265
94.	0.74	1251.5	0.266
94.5	0.74	1252.	0.265
95.	0.738	1252.5	0.267
95.5	0.739	1253.	0.265
96.	0.736	1253.5	0.266
96.5	0.737	1254.	0.264
97.	0.736	1254.5	0.265
97.5	0.736	1255.	0.264
98.	0.734	1255.5	0.264
98.5	0.735	1256.	0.264
99.	0.733	1256.5	0.265
99.5	0.734	1257.	0.263
100.	0.731	1257.5	0.264
100.5	0.733	1258.	0.265
101.	0.731	1258.5	0.264
101.5	0.733	1259.	0.262
102.	0.73	1259.5	0.264
102.5	0.732	1260.	0.263
103.	0.73	1260.5	0.266
103.5	0.731	1261.	0.263
104.	0.729	1261.5	0.264
104.5	0.727	1262.	0.263
105.	0.727	1262.5	0.264
105.5	0.727	1263.	0.263
106.	0.727	1263.5	0.263
106.5	0.727	1264.	0.263
107.	0.727	1264.5	0.262
107.5	0.726	1265.	0.264
108.	0.724	1265.5	0.263
108.5	0.725	1266.	0.262
109.	0.725	1266.5	0.263
109.5	0.724	1267.	0.261
110.	0.722	1267.5	0.262
110.5	0.723	1268.	0.263
111.	0.722	1268.5	0.262
111.5	0.722	1269.	0.262
112.	0.722	1269.5	0.263
112.5	0.721	1270.	0.261
113.	0.72	1270.5	0.262
113.5	0.72	1271.	0.262
114.	0.718	1271.5	0.263
114.5	0.719	1272.	0.26
115.	0.718	1272.5	0.26
115.5	0.72	1273.	0.261
116.	0.716	1273.5	0.263
116.5	0.718	1274.	0.262
117.	0.717	1274.5	0.26
117.5	0.717	1275.	0.261

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
118.	0.715	1275.5	0.261
118.5	0.716	1276.	0.26
119.	0.714	1276.5	0.261
119.5	0.716	1277.	0.26
120.	0.714	1277.5	0.26
120.5	0.714	1278.	0.259
121.	0.712	1278.5	0.261
121.5	0.713	1279.	0.26
122.	0.712	1279.5	0.259
122.5	0.711	1280.	0.259
123.	0.711	1280.5	0.259
123.5	0.712	1281.	0.261
124.	0.711	1281.5	0.259
124.5	0.709	1282.	0.261
125.	0.708	1282.5	0.258
125.5	0.709	1283.	0.259
126.	0.708	1283.5	0.257
126.5	0.708	1284.	0.259
127.	0.707	1284.5	0.259
127.5	0.707	1285.	0.259
128.	0.706	1285.5	0.258
128.5	0.706	1286.	0.259
129.	0.706	1286.5	0.259
129.5	0.706	1287.	0.258
130.	0.704	1287.5	0.26
130.5	0.705	1288.	0.258
131.	0.703	1288.5	0.258
131.5	0.703	1289.	0.259
132.	0.703	1289.5	0.258
132.5	0.703	1290.	0.258
133.	0.703	1290.5	0.258
133.5	0.702	1291.	0.258
134.	0.7	1291.5	0.257
134.5	0.701	1292.	0.258
135.	0.699	1292.5	0.257
135.5	0.7	1293.	0.259
136.	0.699	1293.5	0.257
136.5	0.698	1294.	0.257
137.	0.697	1294.5	0.256
137.5	0.697	1295.	0.258
138.	0.696	1295.5	0.256
138.5	0.696	1296.	0.257
139.	0.696	1296.5	0.257
139.5	0.697	1297.	0.256
140.	0.695	1297.5	0.254
140.5	0.696	1298.	0.257
141.	0.693	1298.5	0.255
141.5	0.694	1299.	0.257
142.	0.693	1299.5	0.255
142.5	0.693	1300.	0.256
143.	0.693	1300.5	0.256
143.5	0.693	1301.	0.256
144.	0.691	1301.5	0.254
144.5	0.691	1302.	0.256
145.	0.69	1302.5	0.255
145.5	0.69	1303.	0.256
146.	0.688	1303.5	0.255
146.5	0.689	1304.	0.256
147.	0.688	1304.5	0.254
147.5	0.689	1305.	0.255
148.	0.688	1305.5	0.254
148.5	0.687	1306.	0.255
149.	0.687	1306.5	0.255
149.5	0.686	1307.	0.254
150.	0.685	1307.5	0.254
150.5	0.686	1308.	0.255
151.	0.685	1308.5	0.253

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
151.5	0.685	1309.	0.254
152.	0.684	1309.5	0.254
152.5	0.684	1310.	0.255
153.	0.682	1310.5	0.253
153.5	0.683	1311.	0.253
154.	0.682	1311.5	0.254
154.5	0.682	1312.	0.254
155.	0.681	1312.5	0.253
155.5	0.681	1313.	0.253
156.	0.682	1313.5	0.254
156.5	0.681	1314.	0.254
157.	0.678	1314.5	0.252
157.5	0.68	1315.	0.252
158.	0.677	1315.5	0.253
158.5	0.678	1316.	0.254
159.	0.678	1316.5	0.252
159.5	0.678	1317.	0.253
160.	0.677	1317.5	0.252
160.5	0.677	1318.	0.252
161.	0.676	1318.5	0.251
161.5	0.677	1319.	0.253
162.	0.676	1319.5	0.252
162.5	0.675	1320.	0.252
163.	0.673	1320.5	0.252
163.5	0.676	1321.	0.252
164.	0.672	1321.5	0.251
164.5	0.674	1322.	0.251
165.	0.674	1322.5	0.253
165.5	0.673	1323.	0.252
166.	0.671	1323.5	0.252
166.5	0.672	1324.	0.251
167.	0.672	1324.5	0.252
167.5	0.672	1325.	0.25
168.	0.671	1325.5	0.252
168.5	0.67	1326.	0.251
169.	0.67	1326.5	0.251
169.5	0.67	1327.	0.251
170.	0.671	1327.5	0.252
170.5	0.67	1328.	0.25
171.	0.667	1328.5	0.25
171.5	0.669	1329.	0.25
172.	0.667	1329.5	0.251
172.5	0.669	1330.	0.25
173.	0.665	1330.5	0.25
173.5	0.666	1331.	0.25
174.	0.668	1331.5	0.249
174.5	0.666	1332.	0.25
175.	0.665	1332.5	0.249
175.5	0.666	1333.	0.25
176.	0.664	1333.5	0.25
176.5	0.666	1334.	0.248
177.	0.662	1334.5	0.248
177.5	0.664	1335.	0.25
178.	0.662	1335.5	0.25
178.5	0.662	1336.	0.249
179.	0.662	1336.5	0.247
179.5	0.663	1337.	0.25
180.	0.662	1337.5	0.247
180.5	0.662	1338.	0.248
181.	0.661	1338.5	0.247
181.5	0.661	1339.	0.249
182.	0.659	1339.5	0.246
182.5	0.66	1340.	0.248
183.	0.658	1340.5	0.247
183.5	0.658	1341.	0.248
184.	0.658	1341.5	0.247
184.5	0.659	1342.	0.248

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
185.	0.658	1342.5	0.247
185.5	0.657	1343.	0.248
186.	0.656	1343.5	0.248
186.5	0.656	1344.	0.248
187.	0.655	1344.5	0.246
187.5	0.656	1345.	0.248
188.	0.656	1345.5	0.247
188.5	0.655	1346.	0.247
189.	0.655	1346.5	0.247
189.5	0.655	1347.	0.246
190.	0.653	1347.5	0.247
190.5	0.654	1348.	0.246
191.	0.653	1348.5	0.247
191.5	0.654	1349.	0.247
192.	0.651	1349.5	0.246
192.5	0.652	1350.	0.248
193.	0.651	1350.5	0.246
193.5	0.652	1351.	0.247
194.	0.65	1351.5	0.248
194.5	0.651	1352.	0.248
195.	0.65	1352.5	0.247
195.5	0.651	1353.	0.248
196.	0.649	1353.5	0.246
196.5	0.649	1354.	0.246
197.	0.647	1354.5	0.246
197.5	0.649	1355.	0.246
198.	0.647	1355.5	0.246
198.5	0.648	1356.	0.246
199.	0.647	1356.5	0.246
199.5	0.648	1357.	0.247
200.	0.646	1357.5	0.245
200.5	0.648	1358.	0.246
201.	0.645	1358.5	0.245
201.5	0.645	1359.	0.247
202.	0.644	1359.5	0.245
202.5	0.645	1360.	0.246
203.	0.643	1360.5	0.246
203.5	0.646	1361.	0.245
204.	0.643	1361.5	0.246
204.5	0.645	1362.	0.245
205.	0.643	1362.5	0.247
205.5	0.642	1363.	0.246
206.	0.644	1363.5	0.246
206.5	0.642	1364.	0.246
207.	0.642	1364.5	0.245
207.5	0.641	1365.	0.246
208.	0.64	1365.5	0.244
208.5	0.64	1366.	0.245
209.	0.639	1366.5	0.245
209.5	0.64	1367.	0.244
210.	0.638	1367.5	0.244
210.5	0.64	1368.	0.245
211.	0.637	1368.5	0.244
211.5	0.638	1369.	0.243
212.	0.637	1369.5	0.243
212.5	0.638	1370.	0.244
213.	0.636	1370.5	0.244
213.5	0.636	1371.	0.243
214.	0.635	1371.5	0.242
214.5	0.637	1372.	0.241
215.	0.634	1372.5	0.243
215.5	0.636	1373.	0.242
216.	0.634	1373.5	0.243
216.5	0.637	1374.	0.243
217.	0.635	1374.5	0.243
217.5	0.634	1375.	0.242
218.	0.632	1375.5	0.242

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
218.5	0.633	1376.	0.243
219.	0.634	1376.5	0.243
219.5	0.633	1377.	0.243
220.	0.631	1377.5	0.241
220.5	0.632	1378.	0.243
221.	0.631	1378.5	0.241
221.5	0.631	1379.	0.243
222.	0.63	1379.5	0.241
222.5	0.631	1380.	0.242
223.	0.63	1380.5	0.24
223.5	0.629	1381.	0.242
224.	0.63	1381.5	0.24
224.5	0.629	1382.	0.241
225.	0.628	1382.5	0.241
225.5	0.628	1383.	0.242
226.	0.627	1383.5	0.241
226.5	0.629	1384.	0.24
227.	0.627	1384.5	0.24
227.5	0.627	1385.	0.241
228.	0.625	1385.5	0.24
228.5	0.626	1386.	0.24
229.	0.625	1386.5	0.239
229.5	0.626	1387.	0.239
230.	0.626	1387.5	0.24
230.5	0.625	1388.	0.239
231.	0.624	1388.5	0.24
231.5	0.625	1389.	0.241
232.	0.624	1389.5	0.24
232.5	0.623	1390.	0.239
233.	0.623	1390.5	0.239
233.5	0.623	1391.	0.24
234.	0.623	1391.5	0.239
234.5	0.622	1392.	0.24
235.	0.622	1392.5	0.238
235.5	0.62	1393.	0.237
236.	0.621	1393.5	0.24
236.5	0.621	1394.	0.239
237.	0.62	1394.5	0.239
237.5	0.619	1395.	0.238
238.	0.619	1395.5	0.239
238.5	0.62	1396.	0.24
239.	0.619	1396.5	0.24
239.5	0.619	1397.	0.239
240.	0.617	1397.5	0.238
240.5	0.618	1398.	0.238
241.	0.616	1398.5	0.238
241.5	0.616	1399.	0.24
242.	0.616	1399.5	0.238
242.5	0.615	1400.	0.239
243.	0.616	1400.5	0.238
243.5	0.616	1401.	0.238
244.	0.614	1401.5	0.236
244.5	0.616	1402.	0.238
245.	0.616	1402.5	0.237
245.5	0.614	1403.	0.237
246.	0.613	1403.5	0.237
246.5	0.615	1404.	0.238
247.	0.613	1404.5	0.237
247.5	0.613	1405.	0.237
248.	0.612	1405.5	0.237
248.5	0.613	1406.	0.238
249.	0.613	1406.5	0.236
249.5	0.612	1407.	0.237
250.	0.611	1407.5	0.236
250.5	0.611	1408.	0.237
251.	0.61	1408.5	0.234
251.5	0.611	1409.	0.237

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
252.	0.611	1409.5	0.237
252.5	0.611	1410.	0.237
253.	0.61	1410.5	0.235
253.5	0.609	1411.	0.235
254.	0.61	1411.5	0.237
254.5	0.608	1412.	0.235
255.	0.608	1412.5	0.235
255.5	0.609	1413.	0.234
256.	0.606	1413.5	0.236
256.5	0.607	1414.	0.236
257.	0.607	1414.5	0.234
257.5	0.607	1415.	0.235
258.	0.607	1415.5	0.234
258.5	0.605	1416.	0.235
259.	0.607	1416.5	0.234
259.5	0.607	1417.	0.234
260.	0.605	1417.5	0.233
260.5	0.605	1418.	0.236
261.	0.604	1418.5	0.234
261.5	0.603	1419.	0.236
262.	0.602	1419.5	0.234
262.5	0.603	1420.	0.235
263.	0.603	1420.5	0.233
263.5	0.603	1421.	0.234
264.	0.603	1421.5	0.233
264.5	0.603	1422.	0.233
265.	0.601	1422.5	0.234
265.5	0.601	1423.	0.233
266.	0.601	1423.5	0.233
266.5	0.601	1424.	0.233
267.	0.6	1424.5	0.233
267.5	0.6	1425.	0.233
268.	0.6	1425.5	0.233
268.5	0.599	1426.	0.234
269.	0.598	1426.5	0.233
269.5	0.6	1427.	0.233
270.	0.597	1427.5	0.233
270.5	0.598	1428.	0.233
271.	0.596	1428.5	0.231
271.5	0.598	1429.	0.234
272.	0.596	1429.5	0.232
272.5	0.597	1430.	0.231
273.	0.596	1430.5	0.231
273.5	0.596	1431.	0.231
274.	0.596	1431.5	0.233
274.5	0.596	1432.	0.232
275.	0.594	1432.5	0.231
275.5	0.597	1433.	0.232
276.	0.593	1433.5	0.231
276.5	0.594	1434.	0.232
277.	0.594	1434.5	0.23
277.5	0.593	1435.	0.231
278.	0.591	1435.5	0.232
278.5	0.594	1436.	0.23
279.	0.592	1436.5	0.23
279.5	0.593	1437.	0.23
280.	0.591	1437.5	0.232
280.5	0.592	1438.	0.23
281.	0.59	1438.5	0.23
281.5	0.591	1439.	0.229
282.	0.591	1439.5	0.231
282.5	0.59	1440.	0.229
283.	0.59	1440.5	0.231
283.5	0.589	1441.	0.23
284.	0.588	1441.5	0.23
284.5	0.589	1442.	0.228
285.	0.589	1442.5	0.231

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
285.5	0.589	1443.	0.23
286.	0.587	1443.5	0.23
286.5	0.589	1444.	0.23
287.	0.587	1444.5	0.23
287.5	0.587	1445.	0.228
288.	0.587	1445.5	0.229
288.5	0.587	1446.	0.228
289.	0.586	1446.5	0.23
289.5	0.585	1447.	0.228
290.	0.586	1447.5	0.229
290.5	0.585	1448.	0.227
291.	0.585	1448.5	0.229
291.5	0.585	1449.	0.228
292.	0.583	1449.5	0.227
292.5	0.584	1450.	0.227
293.	0.583	1450.5	0.229
293.5	0.583	1451.	0.228
294.	0.582	1451.5	0.228
294.5	0.583	1452.	0.228
295.	0.582	1452.5	0.228
295.5	0.581	1453.	0.227
296.	0.581	1453.5	0.23
296.5	0.582	1454.	0.227
297.	0.581	1454.5	0.228
297.5	0.581	1455.	0.226
298.	0.58	1455.5	0.228
298.5	0.581	1456.	0.227
299.	0.579	1456.5	0.228
299.5	0.58	1457.	0.228
300.	0.579	1457.5	0.229
300.5	0.58	1458.	0.224
301.	0.579	1458.5	0.226
301.5	0.579	1459.	0.227
302.	0.579	1459.5	0.227
302.5	0.578	1460.	0.227
303.	0.577	1460.5	0.226
303.5	0.578	1461.	0.227
304.	0.576	1461.5	0.226
304.5	0.577	1462.	0.226
305.	0.576	1462.5	0.226
305.5	0.578	1463.	0.225
306.	0.575	1463.5	0.227
306.5	0.576	1464.	0.226
307.	0.576	1464.5	0.226
307.5	0.575	1465.	0.224
308.	0.575	1465.5	0.225
308.5	0.575	1466.	0.225
309.	0.574	1466.5	0.225
309.5	0.575	1467.	0.226
310.	0.574	1467.5	0.225
310.5	0.575	1468.	0.225
311.	0.572	1468.5	0.225
311.5	0.575	1469.	0.225
312.	0.572	1469.5	0.223
312.5	0.573	1470.	0.226
313.	0.572	1470.5	0.224
313.5	0.574	1471.	0.225
314.	0.571	1471.5	0.224
314.5	0.572	1472.	0.225
315.	0.571	1472.5	0.223
315.5	0.57	1473.	0.225
316.	0.571	1473.5	0.225
316.5	0.571	1474.	0.224
317.	0.57	1474.5	0.223
317.5	0.571	1475.	0.224
318.	0.569	1475.5	0.223
318.5	0.57	1476.	0.224

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
319.	0.568	1476.5	0.224
319.5	0.57	1477.	0.225
320.	0.568	1477.5	0.225
320.5	0.569	1478.	0.223
321.	0.569	1478.5	0.223
321.5	0.568	1479.	0.223
322.	0.568	1479.5	0.223
322.5	0.566	1480.	0.223
323.	0.567	1480.5	0.223
323.5	0.567	1481.	0.222
324.	0.566	1481.5	0.224
324.5	0.565	1482.	0.222
325.	0.566	1482.5	0.225
325.5	0.564	1483.	0.222
326.	0.564	1483.5	0.222
326.5	0.565	1484.	0.222
327.	0.564	1484.5	0.224
327.5	0.563	1485.	0.223
328.	0.564	1485.5	0.222
328.5	0.564	1486.	0.222
329.	0.563	1486.5	0.221
329.5	0.564	1487.	0.222
330.	0.56	1487.5	0.222
330.5	0.562	1488.	0.223
331.	0.561	1488.5	0.221
331.5	0.563	1489.	0.221
332.	0.561	1489.5	0.221
332.5	0.562	1490.	0.222
333.	0.559	1490.5	0.221
333.5	0.561	1491.	0.221
334.	0.56	1491.5	0.221
334.5	0.559	1492.	0.221
335.	0.559	1492.5	0.22
335.5	0.56	1493.	0.223
336.	0.558	1493.5	0.219
336.5	0.559	1494.	0.221
337.	0.558	1494.5	0.221
337.5	0.558	1495.	0.222
338.	0.558	1495.5	0.221
338.5	0.557	1496.	0.221
339.	0.556	1496.5	0.219
339.5	0.557	1497.	0.22
340.	0.557	1497.5	0.221
340.5	0.555	1498.	0.22
341.	0.557	1498.5	0.22
341.5	0.556	1499.	0.218
342.	0.555	1499.5	0.219
342.5	0.556	1500.	0.218
343.	0.555	1500.5	0.221
343.5	0.555	1501.	0.22
344.	0.554	1501.5	0.22
344.5	0.554	1502.	0.218
345.	0.552	1502.5	0.219
345.5	0.554	1503.	0.22
346.	0.551	1503.5	0.219
346.5	0.553	1504.	0.221
347.	0.552	1504.5	0.219
347.5	0.553	1505.	0.218
348.	0.553	1505.5	0.219
348.5	0.552	1506.	0.219
349.	0.552	1506.5	0.219
349.5	0.552	1507.	0.218
350.	0.55	1507.5	0.218
350.5	0.552	1508.	0.22
351.	0.55	1508.5	0.218
351.5	0.551	1509.	0.218
352.	0.55	1509.5	0.217

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
352.5	0.551	1510.	0.219
353.	0.549	1510.5	0.217
353.5	0.549	1511.	0.218
354.	0.549	1511.5	0.217
354.5	0.55	1512.	0.218
355.	0.548	1512.5	0.217
355.5	0.548	1513.	0.217
356.	0.548	1513.5	0.218
356.5	0.549	1514.	0.217
357.	0.548	1514.5	0.218
357.5	0.548	1515.	0.215
358.	0.546	1515.5	0.218
358.5	0.548	1516.	0.217
359.	0.547	1516.5	0.217
359.5	0.547	1517.	0.217
360.	0.545	1517.5	0.217
360.5	0.546	1518.	0.216
361.	0.545	1518.5	0.217
361.5	0.546	1519.	0.217
362.	0.544	1519.5	0.215
362.5	0.545	1520.	0.217
363.	0.545	1520.5	0.216
363.5	0.544	1521.	0.217
364.	0.544	1521.5	0.216
364.5	0.544	1522.	0.216
365.	0.544	1522.5	0.215
365.5	0.544	1523.	0.216
366.	0.542	1523.5	0.215
366.5	0.543	1524.	0.215
367.	0.542	1524.5	0.214
367.5	0.541	1525.	0.216
368.	0.543	1525.5	0.215
368.5	0.542	1526.	0.216
369.	0.541	1526.5	0.214
369.5	0.542	1527.	0.216
370.	0.541	1527.5	0.216
370.5	0.541	1528.	0.214
371.	0.54	1528.5	0.214
371.5	0.542	1529.	0.215
372.	0.541	1529.5	0.214
372.5	0.542	1530.	0.214
373.	0.539	1530.5	0.215
373.5	0.541	1531.	0.212
374.	0.539	1531.5	0.214
374.5	0.539	1532.	0.215
375.	0.538	1532.5	0.214
375.5	0.538	1533.	0.214
376.	0.539	1533.5	0.213
376.5	0.538	1534.	0.214
377.	0.537	1534.5	0.213
377.5	0.538	1535.	0.214
378.	0.536	1535.5	0.212
378.5	0.537	1536.	0.214
379.	0.538	1536.5	0.213
379.5	0.537	1537.	0.213
380.	0.535	1537.5	0.212
380.5	0.536	1538.	0.213
381.	0.535	1538.5	0.213
381.5	0.535	1539.	0.214
382.	0.535	1539.5	0.211
382.5	0.535	1540.	0.213
383.	0.534	1540.5	0.212
383.5	0.533	1541.	0.213
384.	0.534	1541.5	0.212
384.5	0.534	1542.	0.212
385.	0.533	1542.5	0.213
385.5	0.533	1543.	0.213

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
386.	0.533	1543.5	0.211
386.5	0.532	1544.	0.212
387.	0.533	1544.5	0.212
387.5	0.532	1545.	0.212
388.	0.531	1545.5	0.211
388.5	0.531	1546.	0.213
389.	0.53	1546.5	0.21
389.5	0.531	1547.	0.212
390.	0.531	1547.5	0.211
390.5	0.53	1548.	0.211
391.	0.53	1548.5	0.211
391.5	0.53	1549.	0.211
392.	0.529	1549.5	0.212
392.5	0.531	1550.	0.212
393.	0.529	1550.5	0.21
393.5	0.53	1551.	0.211
394.	0.527	1551.5	0.211
394.5	0.528	1552.	0.211
395.	0.526	1552.5	0.212
395.5	0.527	1553.	0.212
396.	0.526	1553.5	0.211
396.5	0.527	1554.	0.21
397.	0.528	1554.5	0.212
397.5	0.528	1555.	0.209
398.	0.526	1555.5	0.21
398.5	0.526	1556.	0.211
399.	0.526	1556.5	0.21
399.5	0.525	1557.	0.211
400.	0.525	1557.5	0.21
400.5	0.525	1558.	0.21
401.	0.524	1558.5	0.21
401.5	0.525	1559.	0.21
402.	0.524	1559.5	0.209
402.5	0.525	1560.	0.209
403.	0.524	1560.5	0.21
403.5	0.524	1561.	0.209
404.	0.522	1561.5	0.208
404.5	0.524	1562.	0.209
405.	0.522	1562.5	0.21
405.5	0.522	1563.	0.208
406.	0.523	1563.5	0.209
406.5	0.523	1564.	0.209
407.	0.522	1564.5	0.211
407.5	0.523	1565.	0.209
408.	0.521	1565.5	0.209
408.5	0.524	1566.	0.209
409.	0.522	1566.5	0.209
409.5	0.521	1567.	0.21
410.	0.519	1567.5	0.208
410.5	0.521	1568.	0.209
411.	0.521	1568.5	0.208
411.5	0.521	1569.	0.209
412.	0.518	1569.5	0.21
412.5	0.518	1570.	0.209
413.	0.518	1570.5	0.21
413.5	0.519	1571.	0.208
414.	0.519	1571.5	0.207
414.5	0.519	1572.	0.208
415.	0.516	1572.5	0.208
415.5	0.518	1573.	0.208
416.	0.517	1573.5	0.208
416.5	0.518	1574.	0.208
417.	0.516	1574.5	0.209
417.5	0.517	1575.	0.208
418.	0.516	1575.5	0.208
418.5	0.516	1576.	0.208
419.	0.516	1576.5	0.208

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
419.5	0.516	1577.	0.208
420.	0.515	1577.5	0.207
420.5	0.516	1578.	0.208
421.	0.515	1578.5	0.207
421.5	0.515	1579.	0.206
422.	0.515	1579.5	0.208
422.5	0.515	1580.	0.208
423.	0.513	1580.5	0.209
423.5	0.515	1581.	0.208
424.	0.514	1581.5	0.207
424.5	0.514	1582.	0.208
425.	0.512	1582.5	0.205
425.5	0.512	1583.	0.207
426.	0.512	1583.5	0.206
426.5	0.512	1584.	0.207
427.	0.512	1584.5	0.206
427.5	0.513	1585.	0.207
428.	0.512	1585.5	0.206
428.5	0.511	1586.	0.207
429.	0.511	1586.5	0.206
429.5	0.512	1587.	0.207
430.	0.51	1587.5	0.204
430.5	0.51	1588.	0.206
431.	0.509	1588.5	0.205
431.5	0.511	1589.	0.204
432.	0.508	1589.5	0.205
432.5	0.509	1590.	0.206
433.	0.508	1590.5	0.205
433.5	0.51	1591.	0.205
434.	0.509	1591.5	0.206
434.5	0.509	1592.	0.206
435.	0.509	1592.5	0.204
435.5	0.508	1593.	0.203
436.	0.508	1593.5	0.206
436.5	0.509	1594.	0.204
437.	0.507	1594.5	0.205
437.5	0.507	1595.	0.204
438.	0.506	1595.5	0.205
438.5	0.508	1596.	0.204
439.	0.508	1596.5	0.206
439.5	0.506	1597.	0.204
440.	0.506	1597.5	0.203
440.5	0.505	1598.	0.203
441.	0.505	1598.5	0.204
441.5	0.506	1599.	0.205
442.	0.504	1599.5	0.203
442.5	0.506	1600.	0.204
443.	0.504	1600.5	0.204
443.5	0.505	1601.	0.204
444.	0.504	1601.5	0.205
444.5	0.506	1602.	0.203
445.	0.503	1602.5	0.205
445.5	0.502	1603.	0.203
446.	0.504	1603.5	0.204
446.5	0.503	1604.	0.204
447.	0.502	1604.5	0.203
447.5	0.503	1605.	0.203
448.	0.5	1605.5	0.204
448.5	0.502	1606.	0.204
449.	0.502	1606.5	0.2
449.5	0.502	1607.	0.202
450.	0.501	1607.5	0.203
450.5	0.501	1608.	0.204
451.	0.5	1608.5	0.202
451.5	0.5	1609.	0.203
452.	0.501	1609.5	0.201
452.5	0.501	1610.	0.204

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
453.	0.5	1610.5	0.203
453.5	0.499	1611.	0.202
454.	0.499	1611.5	0.201
454.5	0.501	1612.	0.202
455.	0.498	1612.5	0.203
455.5	0.499	1613.	0.204
456.	0.498	1613.5	0.202
456.5	0.498	1614.	0.201
457.	0.497	1614.5	0.202
457.5	0.499	1615.	0.202
458.	0.497	1615.5	0.2
458.5	0.498	1616.	0.202
459.	0.496	1616.5	0.203
459.5	0.497	1617.	0.201
460.	0.496	1617.5	0.202
460.5	0.497	1618.	0.201
461.	0.497	1618.5	0.202
461.5	0.497	1619.	0.201
462.	0.496	1619.5	0.201
462.5	0.496	1620.	0.2
463.	0.496	1620.5	0.201
463.5	0.496	1621.	0.201
464.	0.496	1621.5	0.202
464.5	0.495	1622.	0.2
465.	0.494	1622.5	0.2
465.5	0.495	1623.	0.2
466.	0.494	1623.5	0.2
466.5	0.494	1624.	0.2
467.	0.493	1624.5	0.202
467.5	0.494	1625.	0.2
468.	0.493	1625.5	0.201
468.5	0.493	1626.	0.2
469.	0.493	1626.5	0.2
469.5	0.493	1627.	0.199
470.	0.493	1627.5	0.2
470.5	0.492	1628.	0.2
471.	0.49	1628.5	0.199
471.5	0.491	1629.	0.201
472.	0.493	1629.5	0.2
472.5	0.491	1630.	0.2
473.	0.491	1630.5	0.199
473.5	0.492	1631.	0.199
474.	0.49	1631.5	0.199
474.5	0.491	1632.	0.199
475.	0.49	1632.5	0.198
475.5	0.491	1633.	0.199
476.	0.489	1633.5	0.198
476.5	0.491	1634.	0.199
477.	0.489	1634.5	0.199
477.5	0.489	1635.	0.198
478.	0.487	1635.5	0.199
478.5	0.489	1636.	0.198
479.	0.488	1636.5	0.199
479.5	0.488	1637.	0.198
480.	0.487	1637.5	0.199
480.5	0.489	1638.	0.198
481.	0.486	1638.5	0.198
481.5	0.488	1639.	0.198
482.	0.486	1639.5	0.199
482.5	0.487	1640.	0.198
483.	0.486	1640.5	0.198
483.5	0.487	1641.	0.199
484.	0.487	1641.5	0.198
484.5	0.486	1642.	0.198
485.	0.485	1642.5	0.198
485.5	0.485	1643.	0.199
486.	0.486	1643.5	0.197

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
486.5	0.485	1644.	0.199
487.	0.485	1644.5	0.198
487.5	0.484	1645.	0.198
488.	0.483	1645.5	0.197
488.5	0.485	1646.	0.196
489.	0.483	1646.5	0.198
489.5	0.484	1647.	0.198
490.	0.483	1647.5	0.197
490.5	0.484	1648.	0.198
491.	0.482	1648.5	0.197
491.5	0.484	1649.	0.198
492.	0.481	1649.5	0.195
492.5	0.482	1650.	0.197
493.	0.48	1650.5	0.197
493.5	0.481	1651.	0.198
494.	0.48	1651.5	0.195
494.5	0.481	1652.	0.198
495.	0.481	1652.5	0.196
495.5	0.481	1653.	0.197
496.	0.482	1653.5	0.195
496.5	0.481	1654.	0.196
497.	0.479	1654.5	0.195
497.5	0.481	1655.	0.196
498.	0.479	1655.5	0.196
498.5	0.48	1656.	0.196
499.	0.478	1656.5	0.195
499.5	0.479	1657.	0.197
500.	0.478	1657.5	0.195
500.5	0.479	1658.	0.195
501.	0.479	1658.5	0.195
501.5	0.478	1659.	0.196
502.	0.478	1659.5	0.194
502.5	0.477	1660.	0.198
503.	0.477	1660.5	0.195
503.5	0.477	1661.	0.197
504.	0.478	1661.5	0.195
504.5	0.478	1662.	0.195
505.	0.477	1662.5	0.196
505.5	0.477	1663.	0.196
506.	0.477	1663.5	0.195
506.5	0.477	1664.	0.196
507.	0.475	1664.5	0.194
507.5	0.477	1665.	0.196
508.	0.474	1665.5	0.194
508.5	0.477	1666.	0.195
509.	0.475	1666.5	0.194
509.5	0.475	1667.	0.197
510.	0.474	1667.5	0.195
510.5	0.475	1668.	0.195
511.	0.475	1668.5	0.195
511.5	0.475	1669.	0.194
512.	0.474	1669.5	0.194
512.5	0.473	1670.	0.195
513.	0.473	1670.5	0.194
513.5	0.474	1671.	0.196
514.	0.473	1671.5	0.194
514.5	0.473	1672.	0.195
515.	0.472	1672.5	0.194
515.5	0.472	1673.	0.196
516.	0.471	1673.5	0.192
516.5	0.472	1674.	0.194
517.	0.472	1674.5	0.194
517.5	0.471	1675.	0.195
518.	0.469	1675.5	0.193
518.5	0.471	1676.	0.193
519.	0.472	1676.5	0.194
519.5	0.47	1677.	0.193

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
520.	0.47	1677.5	0.193
520.5	0.471	1678.	0.196
521.	0.471	1678.5	0.193
521.5	0.47	1679.	0.195
522.	0.469	1679.5	0.193
522.5	0.47	1680.	0.195
523.	0.468	1680.5	0.194
523.5	0.468	1681.	0.193
524.	0.468	1681.5	0.192
524.5	0.467	1682.	0.194
525.	0.467	1682.5	0.192
525.5	0.469	1683.	0.194
526.	0.466	1683.5	0.192
526.5	0.468	1684.	0.193
527.	0.467	1684.5	0.193
527.5	0.468	1685.	0.193
528.	0.466	1685.5	0.191
528.5	0.468	1686.	0.192
529.	0.466	1686.5	0.191
529.5	0.466	1687.	0.193
530.	0.467	1687.5	0.191
530.5	0.465	1688.	0.192
531.	0.465	1688.5	0.19
531.5	0.465	1689.	0.191
532.	0.465	1689.5	0.192
532.5	0.465	1690.	0.193
533.	0.464	1690.5	0.192
533.5	0.464	1691.	0.194
534.	0.464	1691.5	0.19
534.5	0.464	1692.	0.192
535.	0.463	1692.5	0.19
535.5	0.464	1693.	0.191
536.	0.464	1693.5	0.19
536.5	0.462	1694.	0.191
537.	0.463	1694.5	0.19
537.5	0.463	1695.	0.191
538.	0.463	1695.5	0.19
538.5	0.463	1696.	0.191
539.	0.461	1696.5	0.19
539.5	0.463	1697.	0.191
540.	0.462	1697.5	0.19
540.5	0.462	1698.	0.19
541.	0.461	1698.5	0.189
541.5	0.461	1699.	0.192
542.	0.46	1699.5	0.19
542.5	0.461	1700.	0.191
543.	0.46	1700.5	0.189
543.5	0.461	1701.	0.191
544.	0.458	1701.5	0.189
544.5	0.46	1702.	0.19
545.	0.459	1702.5	0.189
545.5	0.459	1703.	0.19
546.	0.458	1703.5	0.189
546.5	0.458	1704.	0.191
547.	0.458	1704.5	0.189
547.5	0.459	1705.	0.191
548.	0.458	1705.5	0.19
548.5	0.46	1706.	0.191
549.	0.458	1706.5	0.188
549.5	0.458	1707.	0.189
550.	0.458	1707.5	0.19
550.5	0.458	1708.	0.19
551.	0.458	1708.5	0.188
551.5	0.458	1709.	0.189
552.	0.458	1709.5	0.188
552.5	0.457	1710.	0.191
553.	0.454	1710.5	0.187

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
553.5	0.456	1711.	0.189
554.	0.455	1711.5	0.188
554.5	0.456	1712.	0.189
555.	0.455	1712.5	0.189
555.5	0.456	1713.	0.189
556.	0.454	1713.5	0.188
556.5	0.456	1714.	0.188
557.	0.453	1714.5	0.187
557.5	0.455	1715.	0.187
558.	0.455	1715.5	0.187
558.5	0.455	1716.	0.188
559.	0.454	1716.5	0.188
559.5	0.454	1717.	0.187
560.	0.454	1717.5	0.188
560.5	0.454	1718.	0.187
561.	0.453	1718.5	0.187
561.5	0.454	1719.	0.188
562.	0.452	1719.5	0.187
562.5	0.451	1720.	0.187
563.	0.452	1720.5	0.185
563.5	0.454	1721.	0.188
564.	0.453	1721.5	0.186
564.5	0.452	1722.	0.187
565.	0.452	1722.5	0.186
565.5	0.453	1723.	0.186
566.	0.45	1723.5	0.186
566.5	0.452	1724.	0.187
567.	0.451	1724.5	0.184
567.5	0.451	1725.	0.185
568.	0.451	1725.5	0.186
568.5	0.451	1726.	0.187
569.	0.45	1726.5	0.184
569.5	0.451	1727.	0.186
570.	0.449	1727.5	0.184
570.5	0.449	1728.	0.186
571.	0.45	1728.5	0.185
571.5	0.45	1729.	0.186
572.	0.449	1729.5	0.185
572.5	0.449	1730.	0.185
573.	0.447	1730.5	0.183
573.5	0.449	1731.	0.185
574.	0.448	1731.5	0.183
574.5	0.449	1732.	0.185
575.	0.447	1732.5	0.184
575.5	0.45	1733.	0.185
576.	0.446	1733.5	0.183
576.5	0.447	1734.	0.184
577.	0.448	1734.5	0.184
577.5	0.447	1735.	0.185
578.	0.447	1735.5	0.182
578.5	0.446	1736.	0.186
579.	0.446	1736.5	0.185
579.5	0.446	1737.	0.185
580.	0.446	1737.5	0.183
580.5	0.447	1738.	0.185
581.	0.446	1738.5	0.182
581.5	0.446	1739.	0.184
582.	0.444	1739.5	0.183
582.5	0.445	1740.	0.185
583.	0.446	1740.5	0.184
583.5	0.445	1741.	0.184
584.	0.444	1741.5	0.182
584.5	0.445	1742.	0.185
585.	0.444	1742.5	0.182
585.5	0.445	1743.	0.184
586.	0.444	1743.5	0.18
586.5	0.444	1744.	0.184

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
587.	0.444	1744.5	0.182
587.5	0.443	1745.	0.184
588.	0.443	1745.5	0.182
588.5	0.443	1746.	0.183
589.	0.443	1746.5	0.183
589.5	0.442	1747.	0.185
590.	0.442	1747.5	0.182
590.5	0.441	1748.	0.184
591.	0.441	1748.5	0.182
591.5	0.443	1749.	0.183
592.	0.441	1749.5	0.181
592.5	0.444	1750.	0.181
593.	0.44	1750.5	0.182
593.5	0.443	1751.	0.182
594.	0.441	1751.5	0.182
594.5	0.441	1752.	0.183
595.	0.441	1752.5	0.181
595.5	0.442	1753.	0.183
596.	0.439	1753.5	0.181
596.5	0.443	1754.	0.182
597.	0.44	1754.5	0.181
597.5	0.44	1755.	0.183
598.	0.44	1755.5	0.18
598.5	0.44	1756.	0.183
599.	0.439	1756.5	0.181
599.5	0.44	1757.	0.182
600.	0.438	1757.5	0.181
600.5	0.44	1758.	0.182
601.	0.439	1758.5	0.18
601.5	0.44	1759.	0.182
602.	0.44	1759.5	0.18
602.5	0.438	1760.	0.182
603.	0.437	1760.5	0.18
603.5	0.438	1761.	0.18
604.	0.437	1761.5	0.181
604.5	0.437	1762.	0.182
605.	0.436	1762.5	0.18
605.5	0.438	1763.	0.182
606.	0.438	1763.5	0.182
606.5	0.437	1764.	0.183
607.	0.436	1764.5	0.18
607.5	0.435	1765.	0.182
608.	0.435	1765.5	0.18
608.5	0.436	1766.	0.18
609.	0.436	1766.5	0.179
609.5	0.436	1767.	0.181
610.	0.435	1767.5	0.18
610.5	0.435	1768.	0.181
611.	0.433	1768.5	0.18
611.5	0.435	1769.	0.181
612.	0.433	1769.5	0.179
612.5	0.434	1770.	0.18
613.	0.433	1770.5	0.179
613.5	0.434	1771.	0.18
614.	0.433	1771.5	0.179
614.5	0.433	1772.	0.181
615.	0.433	1772.5	0.177
615.5	0.433	1773.	0.18
616.	0.433	1773.5	0.178
616.5	0.432	1774.	0.18
617.	0.433	1774.5	0.18
617.5	0.433	1775.	0.18
618.	0.431	1775.5	0.179
618.5	0.433	1776.	0.182
619.	0.431	1776.5	0.18
619.5	0.431	1777.	0.179
620.	0.431	1777.5	0.179

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
620.5	0.431	1778.	0.18
621.	0.432	1778.5	0.18
621.5	0.432	1779.	0.18
622.	0.43	1779.5	0.179
622.5	0.43	1780.	0.18
623.	0.429	1780.5	0.178
623.5	0.431	1781.	0.18
624.	0.429	1781.5	0.179
624.5	0.43	1782.	0.179
625.	0.429	1782.5	0.177
625.5	0.43	1783.	0.179
626.	0.429	1783.5	0.177
626.5	0.43	1784.	0.18
627.	0.429	1784.5	0.179
627.5	0.43	1785.	0.18
628.	0.429	1785.5	0.178
628.5	0.429	1786.	0.18
629.	0.429	1786.5	0.178
629.5	0.429	1787.	0.179
630.	0.427	1787.5	0.178
630.5	0.429	1788.	0.179
631.	0.427	1788.5	0.179
631.5	0.427	1789.	0.179
632.	0.426	1789.5	0.177
632.5	0.427	1790.	0.178
633.	0.427	1790.5	0.178
633.5	0.428	1791.	0.178
634.	0.426	1791.5	0.178
634.5	0.427	1792.	0.178
635.	0.425	1792.5	0.179
635.5	0.426	1793.	0.179
636.	0.426	1793.5	0.177
636.5	0.427	1794.	0.178
637.	0.426	1794.5	0.178
637.5	0.426	1795.	0.178
638.	0.425	1795.5	0.179
638.5	0.425	1796.	0.178
639.	0.424	1796.5	0.177
639.5	0.426	1797.	0.177
640.	0.424	1797.5	0.178
640.5	0.426	1798.	0.177
641.	0.423	1798.5	0.177
641.5	0.423	1799.	0.179
642.	0.425	1799.5	0.177
642.5	0.425	1800.	0.177
643.	0.424	1800.5	0.176
643.5	0.424	1801.	0.178
644.	0.424	1801.5	0.176
644.5	0.423	1802.	0.177
645.	0.423	1802.5	0.177
645.5	0.423	1803.	0.178
646.	0.421	1803.5	0.176
646.5	0.424	1804.	0.177
647.	0.422	1804.5	0.177
647.5	0.423	1805.	0.176
648.	0.422	1805.5	0.176
648.5	0.423	1806.	0.176
649.	0.422	1806.5	0.177
649.5	0.421	1807.	0.175
650.	0.421	1807.5	0.175
650.5	0.421	1808.	0.176
651.	0.421	1808.5	0.176
651.5	0.421	1809.	0.175
652.	0.421	1809.5	0.176
652.5	0.42	1810.	0.175
653.	0.421	1810.5	0.176
653.5	0.421	1811.	0.174

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
654.	0.421	1811.5	0.175
654.5	0.42	1812.	0.175
655.	0.42	1812.5	0.176
655.5	0.419	1813.	0.175
656.	0.418	1813.5	0.175
656.5	0.42	1814.	0.175
657.	0.417	1814.5	0.175
657.5	0.419	1815.	0.174
658.	0.418	1815.5	0.174
658.5	0.419	1816.	0.175
659.	0.418	1816.5	0.174
659.5	0.418	1817.	0.176
660.	0.418	1817.5	0.174
660.5	0.418	1818.	0.175
661.	0.417	1818.5	0.175
661.5	0.417	1819.	0.174
662.	0.416	1819.5	0.174
662.5	0.415	1820.	0.175
663.	0.416	1820.5	0.173
663.5	0.417	1821.	0.175
664.	0.416	1821.5	0.172
664.5	0.417	1822.	0.174
665.	0.416	1822.5	0.173
665.5	0.416	1823.	0.174
666.	0.414	1823.5	0.173
666.5	0.416	1824.	0.174
667.	0.416	1824.5	0.174
667.5	0.416	1825.	0.173
668.	0.415	1825.5	0.173
668.5	0.414	1826.	0.174
669.	0.414	1826.5	0.173
669.5	0.415	1827.	0.174
670.	0.415	1827.5	0.172
670.5	0.415	1828.	0.173
671.	0.413	1828.5	0.172
671.5	0.415	1829.	0.172
672.	0.413	1829.5	0.173
672.5	0.414	1830.	0.174
673.	0.412	1830.5	0.173
673.5	0.414	1831.	0.171
674.	0.412	1831.5	0.173
674.5	0.413	1832.	0.172
675.	0.411	1832.5	0.173
675.5	0.412	1833.	0.173
676.	0.41	1833.5	0.173
676.5	0.412	1834.	0.173
677.	0.412	1834.5	0.173
677.5	0.411	1835.	0.172
678.	0.412	1835.5	0.173
678.5	0.411	1836.	0.173
679.	0.411	1836.5	0.172
679.5	0.411	1837.	0.172
680.	0.41	1837.5	0.173
680.5	0.413	1838.	0.173
681.	0.41	1838.5	0.172
681.5	0.41	1839.	0.172
682.	0.41	1839.5	0.17
682.5	0.409	1840.	0.172
683.	0.408	1840.5	0.171
683.5	0.41	1841.	0.172
684.	0.408	1841.5	0.171
684.5	0.409	1842.	0.17
685.	0.409	1842.5	0.172
685.5	0.409	1843.	0.172
686.	0.408	1843.5	0.17
686.5	0.408	1844.	0.17
687.	0.409	1844.5	0.171

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
687.5	0.408	1845.	0.172
688.	0.406	1845.5	0.17
688.5	0.409	1846.	0.17
689.	0.407	1846.5	0.17
689.5	0.409	1847.	0.17
690.	0.407	1847.5	0.17
690.5	0.407	1848.	0.171
691.	0.406	1848.5	0.17
691.5	0.406	1849.	0.17
692.	0.406	1849.5	0.17
692.5	0.406	1850.	0.169
693.	0.406	1850.5	0.17
693.5	0.407	1851.	0.17
694.	0.405	1851.5	0.169
694.5	0.406	1852.	0.171
695.	0.405	1852.5	0.17
695.5	0.405	1853.	0.17
696.	0.405	1853.5	0.17
696.5	0.403	1854.	0.17
697.	0.406	1854.5	0.169
697.5	0.405	1855.	0.168
698.	0.406	1855.5	0.169
698.5	0.404	1856.	0.169
699.	0.403	1856.5	0.171
699.5	0.404	1857.	0.17
700.	0.404	1857.5	0.171
700.5	0.404	1858.	0.17
701.	0.404	1858.5	0.167
701.5	0.401	1859.	0.17
702.	0.405	1859.5	0.169
702.5	0.401	1860.	0.169
703.	0.403	1860.5	0.169
703.5	0.403	1861.	0.17
704.	0.403	1861.5	0.169
704.5	0.401	1862.	0.168
705.	0.4	1862.5	0.169
705.5	0.402	1863.	0.168
706.	0.401	1863.5	0.168
706.5	0.403	1864.	0.17
707.	0.403	1864.5	0.168
707.5	0.402	1865.	0.169
708.	0.401	1865.5	0.168
708.5	0.402	1866.	0.169
709.	0.401	1866.5	0.166
709.5	0.402	1867.	0.168
710.	0.399	1867.5	0.169
710.5	0.401	1868.	0.167
711.	0.401	1868.5	0.167
711.5	0.401	1869.	0.167
712.	0.399	1869.5	0.167
712.5	0.401	1870.	0.167
713.	0.399	1870.5	0.168
713.5	0.401	1871.	0.167
714.	0.401	1871.5	0.167
714.5	0.399	1872.	0.168
715.	0.398	1872.5	0.169
715.5	0.399	1873.	0.169
716.	0.399	1873.5	0.168
716.5	0.398	1874.	0.167
717.	0.398	1874.5	0.168
717.5	0.399	1875.	0.167
718.	0.398	1875.5	0.167
718.5	0.397	1876.	0.166
719.	0.397	1876.5	0.167
719.5	0.398	1877.	0.167
720.	0.398	1877.5	0.168
720.5	0.397	1878.	0.167

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
721.	0.397	1878.5	0.166
721.5	0.397	1879.	0.167
722.	0.396	1879.5	0.166
722.5	0.397	1880.	0.168
723.	0.396	1880.5	0.167
723.5	0.396	1881.	0.167
724.	0.395	1881.5	0.166
724.5	0.397	1882.	0.167
725.	0.394	1882.5	0.166
725.5	0.395	1883.	0.166
726.	0.395	1883.5	0.166
726.5	0.396	1884.	0.168
727.	0.397	1884.5	0.166
727.5	0.395	1885.	0.166
728.	0.394	1885.5	0.168
728.5	0.396	1886.	0.166
729.	0.395	1886.5	0.167
729.5	0.394	1887.	0.167
730.	0.395	1887.5	0.166
730.5	0.394	1888.	0.166
731.	0.395	1888.5	0.167
731.5	0.395	1889.	0.165
732.	0.393	1889.5	0.166
732.5	0.394	1890.	0.167
733.	0.394	1890.5	0.166
733.5	0.392	1891.	0.167
734.	0.393	1891.5	0.166
734.5	0.393	1892.	0.166
735.	0.393	1892.5	0.164
735.5	0.391	1893.	0.166
736.	0.392	1893.5	0.165
736.5	0.392	1894.	0.166
737.	0.394	1894.5	0.164
737.5	0.393	1895.	0.167
738.	0.393	1895.5	0.164
738.5	0.391	1896.	0.166
739.	0.392	1896.5	0.164
739.5	0.391	1897.	0.165
740.	0.391	1897.5	0.163
740.5	0.391	1898.	0.164
741.	0.392	1898.5	0.164
741.5	0.391	1899.	0.164
742.	0.39	1899.5	0.164
742.5	0.39	1900.	0.165
743.	0.39	1900.5	0.165
743.5	0.391	1901.	0.166
744.	0.39	1901.5	0.164
744.5	0.39	1902.	0.165
745.	0.39	1902.5	0.163
745.5	0.388	1903.	0.165
746.	0.39	1903.5	0.163
746.5	0.388	1904.	0.164
747.	0.39	1904.5	0.163
747.5	0.388	1905.	0.165
748.	0.389	1905.5	0.165
748.5	0.388	1906.	0.165
749.	0.39	1906.5	0.163
749.5	0.387	1907.	0.163
750.	0.389	1907.5	0.163
750.5	0.389	1908.	0.164
751.	0.388	1908.5	0.162
751.5	0.388	1909.	0.163
752.	0.387	1909.5	0.163
752.5	0.388	1910.	0.165
753.	0.386	1910.5	0.163
753.5	0.387	1911.	0.164
754.	0.388	1911.5	0.163

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
754.5	0.386	1912.	0.163
755.	0.387	1912.5	0.163
755.5	0.387	1913.	0.162
756.	0.387	1913.5	0.164
756.5	0.386	1914.	0.163
757.	0.386	1914.5	0.164
757.5	0.387	1915.	0.162
758.	0.386	1915.5	0.162
758.5	0.386	1916.	0.162
759.	0.384	1916.5	0.163
759.5	0.385	1917.	0.162
760.	0.384	1917.5	0.163
760.5	0.385	1918.	0.163
761.	0.384	1918.5	0.163
761.5	0.385	1919.	0.164
762.	0.383	1919.5	0.162
762.5	0.385	1920.	0.163
763.	0.384	1920.5	0.161
763.5	0.385	1921.	0.163
764.	0.385	1921.5	0.162
764.5	0.384	1922.	0.161
765.	0.384	1922.5	0.161
765.5	0.382	1923.	0.162
766.	0.382	1923.5	0.162
766.5	0.383	1924.	0.163
767.	0.383	1924.5	0.162
767.5	0.383	1925.	0.163
768.	0.383	1925.5	0.16
768.5	0.382	1926.	0.161
769.	0.383	1926.5	0.161
769.5	0.382	1927.	0.161
770.	0.382	1927.5	0.161
770.5	0.381	1928.	0.161
771.	0.382	1928.5	0.161
771.5	0.38	1929.	0.161
772.	0.38	1929.5	0.161
772.5	0.38	1930.	0.16
773.	0.381	1930.5	0.161
773.5	0.383	1931.	0.162
774.	0.381	1931.5	0.16
774.5	0.382	1932.	0.161
775.	0.38	1932.5	0.16
775.5	0.381	1933.	0.16
776.	0.38	1933.5	0.16
776.5	0.381	1934.	0.161
777.	0.38	1934.5	0.16
777.5	0.38	1935.	0.162
778.	0.38	1935.5	0.16
778.5	0.38	1936.	0.161
779.	0.379	1936.5	0.16
779.5	0.379	1937.	0.161
780.	0.38	1937.5	0.16
780.5	0.379	1938.	0.161
781.	0.379	1938.5	0.159
781.5	0.378	1939.	0.16
782.	0.38	1939.5	0.159
782.5	0.378	1940.	0.161
783.	0.379	1940.5	0.16
783.5	0.379	1941.	0.16
784.	0.377	1941.5	0.16
784.5	0.377	1942.	0.159
785.	0.378	1942.5	0.159
785.5	0.378	1943.	0.159
786.	0.379	1943.5	0.158
786.5	0.378	1944.	0.159
787.	0.377	1944.5	0.16
787.5	0.376	1945.	0.159

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
788.	0.378	1945.5	0.159
788.5	0.378	1946.	0.159
789.	0.376	1946.5	0.16
789.5	0.378	1947.	0.159
790.	0.378	1947.5	0.159
790.5	0.376	1948.	0.158
791.	0.377	1948.5	0.159
791.5	0.377	1949.	0.158
792.	0.376	1949.5	0.158
792.5	0.376	1950.	0.159
793.	0.376	1950.5	0.156
793.5	0.375	1951.	0.159
794.	0.376	1951.5	0.158
794.5	0.374	1952.	0.158
795.	0.375	1952.5	0.156
795.5	0.375	1953.	0.157
796.	0.375	1953.5	0.159
796.5	0.374	1954.	0.157
797.	0.375	1954.5	0.158
797.5	0.375	1955.	0.157
798.	0.374	1955.5	0.158
798.5	0.374	1956.	0.158
799.	0.372	1956.5	0.157
799.5	0.373	1957.	0.157
800.	0.373	1957.5	0.156
800.5	0.372	1958.	0.157
801.	0.372	1958.5	0.157
801.5	0.373	1959.	0.157
802.	0.374	1959.5	0.156
802.5	0.372	1960.	0.158
803.	0.373	1960.5	0.156
803.5	0.373	1961.	0.157
804.	0.371	1961.5	0.154
804.5	0.371	1962.	0.158
805.	0.371	1962.5	0.156
805.5	0.371	1963.	0.157
806.	0.371	1963.5	0.156
806.5	0.373	1964.	0.155
807.	0.372	1964.5	0.155
807.5	0.371	1965.	0.156
808.	0.37	1965.5	0.154
808.5	0.371	1966.	0.155
809.	0.37	1966.5	0.156
809.5	0.37	1967.	0.155
810.	0.37	1967.5	0.154
810.5	0.371	1968.	0.155
811.	0.368	1968.5	0.153
811.5	0.368	1969.	0.155
812.	0.37	1969.5	0.155
812.5	0.369	1970.	0.156
813.	0.368	1970.5	0.154
813.5	0.37	1971.	0.154
814.	0.368	1971.5	0.154
814.5	0.367	1972.	0.155
815.	0.369	1972.5	0.153
815.5	0.367	1973.	0.156
816.	0.368	1973.5	0.153
816.5	0.367	1974.	0.155
817.	0.369	1974.5	0.153
817.5	0.367	1975.	0.155
818.	0.367	1975.5	0.154
818.5	0.367	1976.	0.153
819.	0.368	1976.5	0.153
819.5	0.368	1977.	0.156
820.	0.366	1977.5	0.153
820.5	0.367	1978.	0.154
821.	0.366	1978.5	0.154

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
821.5	0.366	1979.	0.152
822.	0.366	1979.5	0.153
822.5	0.368	1980.	0.154
823.	0.366	1980.5	0.152
823.5	0.367	1981.	0.154
824.	0.367	1981.5	0.153
824.5	0.365	1982.	0.155
825.	0.367	1982.5	0.153
825.5	0.365	1983.	0.154
826.	0.366	1983.5	0.153
826.5	0.364	1984.	0.154
827.	0.366	1984.5	0.154
827.5	0.365	1985.	0.154
828.	0.364	1985.5	0.152
828.5	0.365	1986.	0.154
829.	0.366	1986.5	0.151
829.5	0.365	1987.	0.153
830.	0.365	1987.5	0.153
830.5	0.362	1988.	0.155
831.	0.365	1988.5	0.153
831.5	0.364	1989.	0.153
832.	0.365	1989.5	0.152
832.5	0.363	1990.	0.154
833.	0.366	1990.5	0.152
833.5	0.362	1991.	0.154
834.	0.364	1991.5	0.153
834.5	0.363	1992.	0.154
835.	0.364	1992.5	0.152
835.5	0.362	1993.	0.154
836.	0.364	1993.5	0.153
836.5	0.364	1994.	0.154
837.	0.364	1994.5	0.154
837.5	0.361	1995.	0.155
838.	0.361	1995.5	0.154
838.5	0.362	1996.	0.155
839.	0.363	1996.5	0.153
839.5	0.363	1997.	0.153
840.	0.363	1997.5	0.151
840.5	0.362	1998.	0.154
841.	0.361	1998.5	0.153
841.5	0.361	1999.	0.154
842.	0.361	1999.5	0.153
842.5	0.361	2000.	0.153
843.	0.361	2000.5	0.151
843.5	0.361	2001.	0.153
844.	0.363	2001.5	0.152
844.5	0.361	2002.	0.154
845.	0.362	2002.5	0.152
845.5	0.36	2003.	0.153
846.	0.361	2003.5	0.153
846.5	0.36	2004.	0.153
847.	0.36	2004.5	0.151
847.5	0.36	2005.	0.151
848.	0.361	2005.5	0.15
848.5	0.358	2006.	0.154
849.	0.36	2006.5	0.152
849.5	0.359	2007.	0.152
850.	0.36	2007.5	0.151
850.5	0.358	2008.	0.152
851.	0.36	2008.5	0.152
851.5	0.358	2009.	0.151
852.	0.358	2009.5	0.151
852.5	0.359	2010.	0.152
853.	0.359	2010.5	0.151
853.5	0.358	2011.	0.152
854.	0.359	2011.5	0.151
854.5	0.358	2012.	0.153

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
855.	0.359	2012.5	0.151
855.5	0.357	2013.	0.153
856.	0.358	2013.5	0.151
856.5	0.357	2014.	0.153
857.	0.357	2014.5	0.151
857.5	0.356	2015.	0.152
858.	0.358	2015.5	0.151
858.5	0.357	2016.	0.151
859.	0.358	2016.5	0.15
859.5	0.356	2017.	0.153
860.	0.358	2017.5	0.15
860.5	0.356	2018.	0.152
861.	0.356	2018.5	0.15
861.5	0.354	2019.	0.152
862.	0.357	2019.5	0.15
862.5	0.356	2020.	0.151
863.	0.357	2020.5	0.148
863.5	0.354	2021.	0.151
864.	0.356	2021.5	0.151
864.5	0.355	2022.	0.151
865.	0.354	2022.5	0.15
865.5	0.355	2023.	0.151
866.	0.354	2023.5	0.148
866.5	0.355	2024.	0.151
867.	0.355	2024.5	0.15
867.5	0.354	2025.	0.152
868.	0.354	2025.5	0.149
868.5	0.354	2026.	0.151
869.	0.356	2026.5	0.148
869.5	0.352	2027.	0.151
870.	0.354	2027.5	0.148
870.5	0.353	2028.	0.151
871.	0.352	2028.5	0.15
871.5	0.354	2029.	0.151
872.	0.353	2029.5	0.147
872.5	0.355	2030.	0.151
873.	0.353	2030.5	0.148
873.5	0.353	2031.	0.15
874.	0.352	2031.5	0.148
874.5	0.352	2032.	0.15
875.	0.352	2032.5	0.149
875.5	0.352	2033.	0.149
876.	0.351	2033.5	0.148
876.5	0.352	2034.	0.149
877.	0.351	2034.5	0.147
877.5	0.353	2035.	0.149
878.	0.352	2035.5	0.146
878.5	0.352	2036.	0.148
879.	0.352	2036.5	0.146
879.5	0.352	2037.	0.149
880.	0.352	2037.5	0.146
880.5	0.351	2038.	0.149
881.	0.351	2038.5	0.146
881.5	0.351	2039.	0.148
882.	0.349	2039.5	0.146
882.5	0.351	2040.	0.148
883.	0.351	2040.5	0.146
883.5	0.35	2041.	0.147
884.	0.351	2041.5	0.146
884.5	0.35	2042.	0.148
885.	0.35	2042.5	0.146
885.5	0.35	2043.	0.147
886.	0.35	2043.5	0.145
886.5	0.348	2044.	0.147
887.	0.35	2044.5	0.145
887.5	0.348	2045.	0.147
888.	0.348	2045.5	0.145

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
888.5	0.347	2046.	0.145
889.	0.348	2046.5	0.146
889.5	0.347	2047.	0.146
890.	0.349	2047.5	0.146
890.5	0.348	2048.	0.147
891.	0.349	2048.5	0.146
891.5	0.347	2049.	0.146
892.	0.348	2049.5	0.145
892.5	0.347	2050.	0.146
893.	0.347	2050.5	0.145
893.5	0.348	2051.	0.146
894.	0.346	2051.5	0.144
894.5	0.348	2052.	0.147
895.	0.346	2052.5	0.144
895.5	0.347	2053.	0.146
896.	0.344	2053.5	0.144
896.5	0.347	2054.	0.146
897.	0.346	2054.5	0.144
897.5	0.346	2055.	0.145
898.	0.345	2055.5	0.143
898.5	0.346	2056.	0.145
899.	0.344	2056.5	0.144
899.5	0.345	2057.	0.146
900.	0.344	2057.5	0.144
900.5	0.345	2058.	0.146
901.	0.345	2058.5	0.144
901.5	0.345	2059.	0.145
902.	0.344	2059.5	0.144
902.5	0.344	2060.	0.145
903.	0.345	2060.5	0.144
903.5	0.345	2061.	0.146
904.	0.344	2061.5	0.144
904.5	0.344	2062.	0.146
905.	0.345	2062.5	0.143
905.5	0.344	2063.	0.144
906.	0.343	2063.5	0.144
906.5	0.343	2064.	0.145
907.	0.343	2064.5	0.143
907.5	0.342	2065.	0.144
908.	0.342	2065.5	0.143
908.5	0.343	2066.	0.145
909.	0.342	2066.5	0.144
909.5	0.342	2067.	0.145
910.	0.341	2067.5	0.143
910.5	0.342	2068.	0.144
911.	0.342	2068.5	0.143
911.5	0.341	2069.	0.144
912.	0.343	2069.5	0.143
912.5	0.341	2070.	0.143
913.	0.342	2070.5	0.144
913.5	0.342	2071.	0.144
914.	0.342	2071.5	0.143
914.5	0.341	2072.	0.144
915.	0.339	2072.5	0.14
915.5	0.341	2073.	0.143
916.	0.339	2073.5	0.142
916.5	0.341	2074.	0.144
917.	0.341	2074.5	0.142
917.5	0.34	2075.	0.143
918.	0.341	2075.5	0.143
918.5	0.341	2076.	0.144
919.	0.34	2076.5	0.141
919.5	0.339	2077.	0.143
920.	0.338	2077.5	0.141
920.5	0.339	2078.	0.143
921.	0.34	2078.5	0.141
921.5	0.342	2079.	0.143

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
922.	0.339	2079.5	0.142
922.5	0.34	2080.	0.143
923.	0.34	2080.5	0.141
923.5	0.339	2081.	0.141
924.	0.34	2081.5	0.14
924.5	0.338	2082.	0.143
925.	0.339	2082.5	0.14
925.5	0.338	2083.	0.143
926.	0.338	2083.5	0.14
926.5	0.338	2084.	0.141
927.	0.337	2084.5	0.141
927.5	0.337	2085.	0.143
928.	0.337	2085.5	0.141
928.5	0.338	2086.	0.141
929.	0.337	2086.5	0.141
929.5	0.337	2087.	0.143
930.	0.336	2087.5	0.142
930.5	0.338	2088.	0.144
931.	0.336	2088.5	0.141
931.5	0.336	2089.	0.143
932.	0.337	2089.5	0.142
932.5	0.337	2090.	0.143
933.	0.337	2090.5	0.142
933.5	0.335	2091.	0.142
934.	0.336	2091.5	0.142
934.5	0.337	2092.	0.142
935.	0.336	2092.5	0.141
935.5	0.335	2093.	0.142
936.	0.336	2093.5	0.14
936.5	0.335	2094.	0.142
937.	0.335	2094.5	0.141
937.5	0.334	2095.	0.141
938.	0.335	2095.5	0.141
938.5	0.335	2096.	0.142
939.	0.335	2096.5	0.14
939.5	0.334	2097.	0.142
940.	0.335	2097.5	0.139
940.5	0.334	2098.	0.141
941.	0.334	2098.5	0.141
941.5	0.334	2099.	0.142
942.	0.334	2099.5	0.14
942.5	0.334	2100.	0.141
943.	0.334	2100.5	0.14
943.5	0.332	2101.	0.141
944.	0.334	2101.5	0.139
944.5	0.333	2102.	0.14
945.	0.333	2102.5	0.139
945.5	0.332	2103.	0.141
946.	0.333	2103.5	0.138
946.5	0.333	2104.	0.141
947.	0.333	2104.5	0.14
947.5	0.332	2105.	0.14
948.	0.332	2105.5	0.138
948.5	0.334	2106.	0.139
949.	0.332	2106.5	0.139
949.5	0.332	2107.	0.14
950.	0.332	2107.5	0.138
950.5	0.332	2108.	0.14
951.	0.332	2108.5	0.138
951.5	0.332	2109.	0.14
952.	0.331	2109.5	0.138
952.5	0.332	2110.	0.141
953.	0.331	2110.5	0.138
953.5	0.331	2111.	0.14
954.	0.33	2111.5	0.14
954.5	0.33	2112.	0.14
955.	0.331	2112.5	0.14

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
955.5	0.33	2113.	0.141
956.	0.332	2113.5	0.138
956.5	0.332	2114.	0.141
957.	0.33	2114.5	0.138
957.5	0.33	2115.	0.14
958.	0.331	2115.5	0.14
958.5	0.33	2116.	0.14
959.	0.33	2116.5	0.139
959.5	0.33	2117.	0.139
960.	0.33	2117.5	0.138
960.5	0.331	2118.	0.14
961.	0.329	2118.5	0.138
961.5	0.329	2119.	0.14
962.	0.331	2119.5	0.138
962.5	0.328	2120.	0.14
963.	0.33	2120.5	0.138
963.5	0.329	2121.	0.138
964.	0.328	2121.5	0.139
964.5	0.329	2122.	0.139
965.	0.329	2122.5	0.137
965.5	0.329	2123.	0.138
966.	0.329	2123.5	0.137
966.5	0.328	2124.	0.139
967.	0.33	2124.5	0.138
967.5	0.328	2125.	0.138
968.	0.327	2125.5	0.138
968.5	0.328	2126.	0.139
969.	0.328	2126.5	0.135
969.5	0.326	2127.	0.138
970.	0.328	2127.5	0.136
970.5	0.326	2128.	0.138
971.	0.328	2128.5	0.138
971.5	0.325	2129.	0.138
972.	0.328	2129.5	0.138
972.5	0.326	2130.	0.138
973.	0.327	2130.5	0.138
973.5	0.324	2131.	0.139
974.	0.326	2131.5	0.137
974.5	0.326	2132.	0.138
975.	0.326	2132.5	0.136
975.5	0.325	2133.	0.139
976.	0.327	2133.5	0.136
976.5	0.326	2134.	0.138
977.	0.325	2134.5	0.137
977.5	0.325	2135.	0.138
978.	0.325	2135.5	0.136
978.5	0.325	2136.	0.138
979.	0.325	2136.5	0.136
979.5	0.326	2137.	0.137
980.	0.326	2137.5	0.135
980.5	0.323	2138.	0.138
981.	0.325	2138.5	0.135
981.5	0.324	2139.	0.137
982.	0.325	2139.5	0.136
982.5	0.324	2140.	0.138
983.	0.324	2140.5	0.136
983.5	0.324	2141.	0.137
984.	0.324	2141.5	0.135
984.5	0.324	2142.	0.137
985.	0.323	2142.5	0.136
985.5	0.323	2143.	0.136
986.	0.324	2143.5	0.136
986.5	0.322	2144.	0.136
987.	0.323	2144.5	0.136
987.5	0.323	2145.	0.136
988.	0.323	2145.5	0.135
988.5	0.321	2146.	0.136

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
989.	0.323	2146.5	0.134
989.5	0.321	2147.	0.137
990.	0.323	2147.5	0.135
990.5	0.322	2148.	0.136
991.	0.322	2148.5	0.136
991.5	0.322	2149.	0.137
992.	0.323	2149.5	0.134
992.5	0.322	2150.	0.135
993.	0.321	2150.5	0.135
993.5	0.32	2151.	0.136
994.	0.321	2151.5	0.135
994.5	0.322	2152.	0.136
995.	0.322	2152.5	0.134
995.5	0.32	2153.	0.136
996.	0.321	2153.5	0.135
996.5	0.319	2154.	0.136
997.	0.32	2154.5	0.133
997.5	0.32	2155.	0.135
998.	0.322	2155.5	0.135
998.5	0.321	2156.	0.135
999.	0.32	2156.5	0.134
999.5	0.32	2157.	0.135
1000.	0.32	2157.5	0.135
1000.5	0.32	2158.	0.136
1001.	0.32	2158.5	0.134
1001.5	0.32	2159.	0.135
1002.	0.321	2159.5	0.134
1002.5	0.32	2160.	0.135
1003.	0.32	2160.5	0.133
1003.5	0.319	2161.	0.136
1004.	0.32	2161.5	0.133
1004.5	0.319	2162.	0.135
1005.	0.319	2162.5	0.134
1005.5	0.319	2163.	0.135
1006.	0.319	2163.5	0.134
1006.5	0.319	2164.	0.135
1007.	0.319	2164.5	0.134
1007.5	0.319	2165.	0.135
1008.	0.319	2165.5	0.134
1008.5	0.319	2166.	0.134
1009.	0.318	2166.5	0.133
1009.5	0.319	2167.	0.135
1010.	0.318	2167.5	0.133
1010.5	0.317	2168.	0.135
1011.	0.318	2168.5	0.133
1011.5	0.317	2169.	0.136
1012.	0.319	2169.5	0.134
1012.5	0.317	2170.	0.135
1013.	0.318	2170.5	0.134
1013.5	0.316	2171.	0.135
1014.	0.317	2171.5	0.133
1014.5	0.316	2172.	0.135
1015.	0.316	2172.5	0.134
1015.5	0.316	2173.	0.134
1016.	0.317	2173.5	0.133
1016.5	0.316	2174.	0.136
1017.	0.317	2174.5	0.134
1017.5	0.315	2175.	0.134
1018.	0.315	2175.5	0.133
1018.5	0.316	2176.	0.135
1019.	0.316	2176.5	0.133
1019.5	0.315	2177.	0.135
1020.	0.314	2177.5	0.134
1020.5	0.314	2178.	0.134
1021.	0.316	2178.5	0.133
1021.5	0.316	2179.	0.133
1022.	0.315	2179.5	0.134

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1022.5	0.315	2180.	0.134
1023.	0.313	2180.5	0.133
1023.5	0.314	2181.	0.135
1024.	0.315	2181.5	0.133
1024.5	0.314	2182.	0.134
1025.	0.314	2182.5	0.133
1025.5	0.313	2183.	0.135
1026.	0.313	2183.5	0.132
1026.5	0.313	2184.	0.135
1027.	0.314	2184.5	0.133
1027.5	0.313	2185.	0.134
1028.	0.314	2185.5	0.131
1028.5	0.312	2186.	0.133
1029.	0.313	2186.5	0.132
1029.5	0.312	2187.	0.134
1030.	0.314	2187.5	0.132
1030.5	0.312	2188.	0.134
1031.	0.313	2188.5	0.132
1031.5	0.312	2189.	0.133
1032.	0.313	2189.5	0.132
1032.5	0.311	2190.	0.134
1033.	0.313	2190.5	0.132
1033.5	0.312	2191.	0.134
1034.	0.311	2191.5	0.133
1034.5	0.312	2192.	0.134
1035.	0.311	2192.5	0.132
1035.5	0.312	2193.	0.132
1036.	0.311	2193.5	0.131
1036.5	0.312	2194.	0.133
1037.	0.31	2194.5	0.132
1037.5	0.312	2195.	0.133
1038.	0.311	2195.5	0.131
1038.5	0.312	2196.	0.133
1039.	0.311	2196.5	0.131
1039.5	0.311	2197.	0.131
1040.	0.309	2197.5	0.131
1040.5	0.31	2198.	0.132
1041.	0.31	2198.5	0.132
1041.5	0.309	2199.	0.132
1042.	0.31	2199.5	0.13
1042.5	0.31	2200.	0.132
1043.	0.309	2200.5	0.13
1043.5	0.31	2201.	0.131
1044.	0.31	2201.5	0.129
1044.5	0.309	2202.	0.132
1045.	0.309	2202.5	0.132
1045.5	0.308	2203.	0.133
1046.	0.31	2203.5	0.13
1046.5	0.308	2204.	0.131
1047.	0.31	2204.5	0.13
1047.5	0.308	2205.	0.131
1048.	0.307	2205.5	0.131
1048.5	0.308	2206.	0.131
1049.	0.309	2206.5	0.129
1049.5	0.307	2207.	0.129
1050.	0.309	2207.5	0.129
1050.5	0.307	2208.	0.13
1051.	0.307	2208.5	0.13
1051.5	0.309	2209.	0.131
1052.	0.308	2209.5	0.13
1052.5	0.307	2210.	0.131
1053.	0.308	2210.5	0.129
1053.5	0.307	2211.	0.129
1054.	0.307	2211.5	0.128
1054.5	0.306	2212.	0.131
1055.	0.307	2212.5	0.129
1055.5	0.306	2213.	0.13

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1056.	0.307	2213.5	0.128
1056.5	0.307	2214.	0.129
1057.	0.306	2214.5	0.128
1057.5	0.308	2215.	0.13
1058.	0.305	2215.5	0.128
1058.5	0.307	2216.	0.13
1059.	0.305	2216.5	0.129
1059.5	0.306	2217.	0.129
1060.	0.306	2217.5	0.127
1060.5	0.305	2218.	0.13
1061.	0.306	2218.5	0.128
1061.5	0.306	2219.	0.129
1062.	0.305	2219.5	0.128
1062.5	0.307	2220.	0.129
1063.	0.305	2220.5	0.128
1063.5	0.303	2221.	0.129
1064.	0.305	2221.5	0.127
1064.5	0.305	2222.	0.129
1065.	0.306	2222.5	0.128
1065.5	0.305	2223.	0.129
1066.	0.304	2223.5	0.126
1066.5	0.305	2224.	0.129
1067.	0.303	2224.5	0.126
1067.5	0.302	2225.	0.129
1068.	0.304	2225.5	0.127
1068.5	0.303	2226.	0.128
1069.	0.304	2226.5	0.127
1069.5	0.304	2227.	0.128
1070.	0.304	2227.5	0.126
1070.5	0.303	2228.	0.127
1071.	0.303	2228.5	0.126
1071.5	0.302	2229.	0.129
1072.	0.303	2229.5	0.125
1072.5	0.302	2230.	0.127
1073.	0.302	2230.5	0.127
1073.5	0.301	2231.	0.127
1074.	0.302	2231.5	0.127
1074.5	0.301	2232.	0.128
1075.	0.303	2232.5	0.126
1075.5	0.301	2233.	0.127
1076.	0.3	2233.5	0.125
1076.5	0.301	2234.	0.127
1077.	0.301	2234.5	0.127
1077.5	0.3	2235.	0.127
1078.	0.3	2235.5	0.126
1078.5	0.301	2236.	0.128
1079.	0.301	2236.5	0.126
1079.5	0.301	2237.	0.126
1080.	0.3	2237.5	0.127
1080.5	0.301	2238.	0.126
1081.	0.3	2238.5	0.127
1081.5	0.3	2239.	0.127
1082.	0.301	2239.5	0.126
1082.5	0.3	2240.	0.127
1083.	0.301	2240.5	0.125
1083.5	0.301	2241.	0.127
1084.	0.3	2241.5	0.127
1084.5	0.3	2242.	0.128
1085.	0.299	2242.5	0.125
1085.5	0.3	2243.	0.127
1086.	0.298	2243.5	0.126
1086.5	0.3	2244.	0.128
1087.	0.3	2244.5	0.127
1087.5	0.299	2245.	0.125
1088.	0.299	2245.5	0.127
1088.5	0.298	2246.	0.125
1089.	0.3	2246.5	0.128

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1089.5	0.298	2247.	0.127
1090.	0.299	2247.5	0.126
1090.5	0.298	2248.	0.126
1091.	0.299	2248.5	0.127
1091.5	0.297	2249.	0.125
1092.	0.298	2249.5	0.125
1092.5	0.298	2250.	0.125
1093.	0.297	2250.5	0.126
1093.5	0.298	2251.	0.125
1094.	0.297	2251.5	0.125
1094.5	0.297	2252.	0.125
1095.	0.297	2252.5	0.127
1095.5	0.298	2253.	0.125
1096.	0.296	2253.5	0.126
1096.5	0.299	2254.	0.125
1097.	0.297	2254.5	0.125
1097.5	0.297	2255.	0.125
1098.	0.296	2255.5	0.125
1098.5	0.296	2256.	0.125
1099.	0.297	2256.5	0.125
1099.5	0.296	2257.	0.125
1100.	0.298	2257.5	0.125
1100.5	0.297	2258.	0.125
1101.	0.296	2258.5	0.125
1101.5	0.296	2259.	0.125
1102.	0.295	2259.5	0.124
1102.5	0.295	2260.	0.125
1103.	0.295	2260.5	0.125
1103.5	0.294	2261.	0.125
1104.	0.296	2261.5	0.124
1104.5	0.295	2262.	0.124
1105.	0.296	2262.5	0.124
1105.5	0.295	2263.	0.125
1106.	0.296	2263.5	0.124
1106.5	0.295	2264.	0.123
1107.	0.295	2264.5	0.124
1107.5	0.296	2265.	0.124
1108.	0.294	2265.5	0.125
1108.5	0.296	2266.	0.123
1109.	0.295	2266.5	0.124
1109.5	0.295	2267.	0.123
1110.	0.295	2267.5	0.124
1110.5	0.294	2268.	0.122
1111.	0.294	2268.5	0.124
1111.5	0.294	2269.	0.124
1112.	0.294	2269.5	0.123
1112.5	0.293	2270.	0.123
1113.	0.294	2270.5	0.122
1113.5	0.294	2271.	0.123
1114.	0.294	2271.5	0.121
1114.5	0.294	2272.	0.124
1115.	0.294	2272.5	0.124
1115.5	0.293	2273.	0.124
1116.	0.294	2273.5	0.121
1116.5	0.293	2274.	0.123
1117.	0.294	2274.5	0.122
1117.5	0.293	2275.	0.122
1118.	0.294	2275.5	0.124
1118.5	0.293	2276.	0.122
1119.	0.294	2276.5	0.122
1119.5	0.292	2277.	0.121
1120.	0.294	2277.5	0.122
1120.5	0.294	2278.	0.123
1121.	0.292	2278.5	0.123
1121.5	0.293	2279.	0.123
1122.	0.292	2279.5	0.12
1122.5	0.292	2280.	0.123

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1123.	0.292	2280.5	0.122
1123.5	0.292	2281.	0.122
1124.	0.292	2281.5	0.123
1124.5	0.291	2282.	0.122
1125.	0.293	2282.5	0.122
1125.5	0.291	2283.	0.124
1126.	0.292	2283.5	0.121
1126.5	0.291	2284.	0.123
1127.	0.291	2284.5	0.121
1127.5	0.29	2285.	0.122
1128.	0.291	2285.5	0.123
1128.5	0.29	2286.	0.122
1129.	0.291	2286.5	0.122
1129.5	0.291	2287.	0.122
1130.	0.291	2287.5	0.121
1130.5	0.291	2288.	0.123
1131.	0.289	2288.5	0.122
1131.5	0.29	2289.	0.121
1132.	0.29	2289.5	0.121
1132.5	0.289	2290.	0.122
1133.	0.289	2290.5	0.121
1133.5	0.289	2291.	0.122
1134.	0.289	2291.5	0.121
1134.5	0.288	2292.	0.122
1135.	0.289	2292.5	0.122
1135.5	0.289	2293.	0.122
1136.	0.288	2293.5	0.122
1136.5	0.288	2294.	0.122
1137.	0.287	2294.5	0.121
1137.5	0.289	2295.	0.121
1138.	0.288	2295.5	0.12
1138.5	0.288	2296.	0.121
1139.	0.287	2296.5	0.122
1139.5	0.288	2297.	0.122
1140.	0.287	2297.5	0.121
1140.5	0.288	2298.	0.121
1141.	0.287	2298.5	0.122
1141.5	0.287	2299.	0.122
1142.	0.286	2299.5	0.12
1142.5	0.288	2300.	0.121
1143.	0.288	2300.5	0.122
1143.5	0.287	2301.	0.12
1144.	0.287	2301.5	0.121
1144.5	0.286	2302.	0.12
1145.	0.287	2302.5	0.122
1145.5	0.287	2303.	0.121
1146.	0.288	2303.5	0.12
1146.5	0.288	2304.	0.122
1147.	0.286	2304.5	0.122
1147.5	0.286	2305.	0.119
1148.	0.286	2305.5	0.121
1148.5	0.284	2306.	0.12
1149.	0.286	2306.5	0.122
1149.5	0.284	2307.	0.121
1150.	0.286	2307.5	0.121
1150.5	0.286	2308.	0.119
1151.	0.286	2308.5	0.12
1151.5	0.287	2309.	0.122
1152.	0.285	2309.5	0.119
1152.5	0.285	2310.	0.121
1153.	0.286	2310.5	0.122
1153.5	0.284	2311.	0.119
1154.	0.287	2311.5	0.119
1154.5	0.285	2312.	0.119
1155.	0.284	2312.5	0.121
1155.5	0.284	2313.	0.12
1156.	0.284	2313.5	0.12

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1156.5	0.285	2314.	0.118
1157.	0.283	2314.5	0.12
1157.5	0.285	2315.	0.119
1158.	0.284	2315.5	0.12
1158.5	0.284	2316.	0.121
1159.	0.284		

SOLUTION

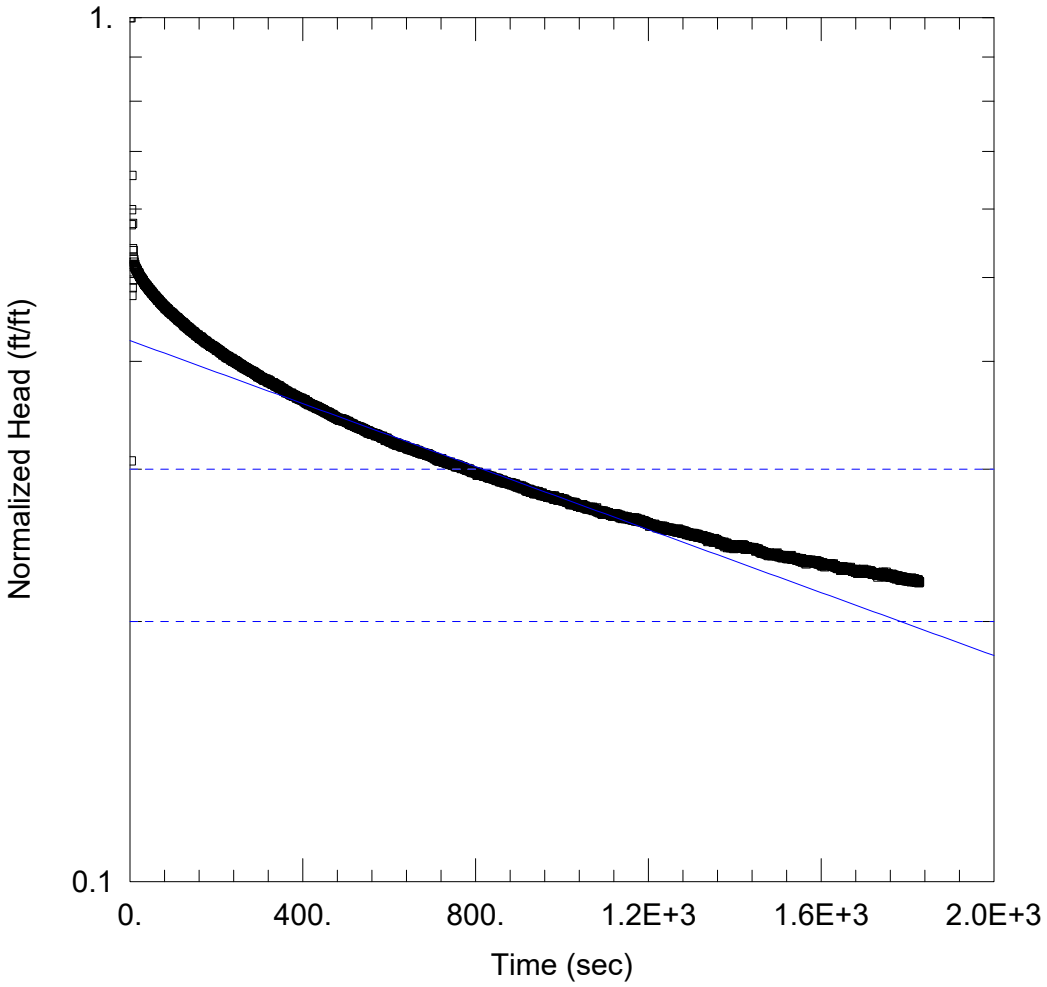
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.881

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	2.216E-5	cm/sec
y0	0.7858	ft

T = K*b = 0.007524 cm²/sec



MW-117 RISING HEAD 01

Data Set: Z:\...\MW-117 Rising Head 01.aqt
Date: 10/07/25 Time: 11:12:01

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-117
Test Well: MW-117
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 11.14 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-117)

Initial Displacement: 1.737 ft
Total Well Penetration Depth: 11.14 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 11.14 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 9.598E-6 cm/sec
y0 = 0.7343 ft

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-117 Rising Head 01
Date: 10/07/25
Time: 11:12:25

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-117
Test Date: 9/18/25
Test Well: MW-117

AQUIFER DATA

Saturated Thickness: 11.14 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-117

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.737 ft
Static Water Column Height: 11.14 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 11.14 ft

No. of Observations: 3652

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2.5	1.737	915.5	0.495
3.	1.	916.	0.493
3.5	0.533	916.5	0.494
4.	1.041	917.	0.493
4.5	1.14	917.5	0.495
5.	0.828	918.	0.492
5.5	0.845	918.5	0.494
6.	1.003	919.	0.493
6.5	0.938	919.5	0.493
7.	0.863	920.	0.492
7.5	0.917	920.5	0.493
8.	0.933	921.	0.492
8.5	0.9	921.5	0.494
9.	0.894	922.	0.492
9.5	0.911	922.5	0.492
10.	0.905	923.	0.492
10.5	0.895	923.5	0.493
11.	0.899	924.	0.492
11.5	0.9	924.5	0.494
12.	0.894	925.	0.492
12.5	0.892	925.5	0.493
13.	0.893	926.	0.491
13.5	0.891	926.5	0.492
14.	0.89	927.	0.49
14.5	0.887	927.5	0.492
15.	0.889	928.	0.491
15.5	0.888	928.5	0.493
16.	0.887	929.	0.49
16.5	0.885	929.5	0.491
17.	0.885	930.	0.491
17.5	0.883	930.5	0.492

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
18.	0.881	931.	0.49
18.5	0.88	931.5	0.491
19.	0.881	932.	0.49
19.5	0.879	932.5	0.49
20.	0.88	933.	0.491
20.5	0.877	933.5	0.49
21.	0.876	934.	0.49
21.5	0.877	934.5	0.49
22.	0.874	935.	0.489
22.5	0.873	935.5	0.489
23.	0.872	936.	0.489
23.5	0.872	936.5	0.49
24.	0.87	937.	0.488
24.5	0.869	937.5	0.492
25.	0.87	938.	0.49
25.5	0.868	938.5	0.491
26.	0.867	939.	0.489
26.5	0.867	939.5	0.489
27.	0.866	940.	0.49
27.5	0.865	940.5	0.49
28.	0.865	941.	0.489
28.5	0.865	941.5	0.489
29.	0.863	942.	0.488
29.5	0.863	942.5	0.49
30.	0.861	943.	0.489
30.5	0.862	943.5	0.49
31.	0.861	944.	0.489
31.5	0.859	944.5	0.491
32.	0.858	945.	0.489
32.5	0.857	945.5	0.49
33.	0.857	946.	0.489
33.5	0.857	946.5	0.49
34.	0.856	947.	0.488
34.5	0.854	947.5	0.489
35.	0.853	948.	0.489
35.5	0.853	948.5	0.488
36.	0.854	949.	0.488
36.5	0.852	949.5	0.489
37.	0.852	950.	0.487
37.5	0.851	950.5	0.488
38.	0.851	951.	0.487
38.5	0.85	951.5	0.488
39.	0.849	952.	0.486
39.5	0.849	952.5	0.488
40.	0.849	953.	0.488
40.5	0.847	953.5	0.489
41.	0.846	954.	0.486
41.5	0.846	954.5	0.489
42.	0.845	955.	0.487
42.5	0.844	955.5	0.486
43.	0.844	956.	0.486
43.5	0.845	956.5	0.487
44.	0.843	957.	0.486
44.5	0.841	957.5	0.487
45.	0.841	958.	0.486
45.5	0.841	958.5	0.487
46.	0.84	959.	0.486
46.5	0.84	959.5	0.487
47.	0.84	960.	0.485
47.5	0.838	960.5	0.486
48.	0.839	961.	0.486
48.5	0.838	961.5	0.486
49.	0.837	962.	0.487
49.5	0.836	962.5	0.485
50.	0.835	963.	0.486
50.5	0.837	963.5	0.486
51.	0.834	964.	0.485

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
51.5	0.833	964.5	0.486
52.	0.833	965.	0.485
52.5	0.833	965.5	0.485
53.	0.833	966.	0.485
53.5	0.832	966.5	0.486
54.	0.831	967.	0.484
54.5	0.831	967.5	0.484
55.	0.829	968.	0.484
55.5	0.829	968.5	0.485
56.	0.828	969.	0.485
56.5	0.828	969.5	0.485
57.	0.828	970.	0.485
57.5	0.827	970.5	0.485
58.	0.827	971.	0.484
58.5	0.827	971.5	0.484
59.	0.826	972.	0.485
59.5	0.826	972.5	0.484
60.	0.824	973.	0.485
60.5	0.824	973.5	0.485
61.	0.824	974.	0.483
61.5	0.822	974.5	0.485
62.	0.821	975.	0.485
62.5	0.821	975.5	0.485
63.	0.821	976.	0.484
63.5	0.822	976.5	0.484
64.	0.821	977.	0.484
64.5	0.82	977.5	0.484
65.	0.818	978.	0.483
65.5	0.818	978.5	0.484
66.	0.818	979.	0.484
66.5	0.818	979.5	0.483
67.	0.818	980.	0.482
67.5	0.818	980.5	0.484
68.	0.817	981.	0.483
68.5	0.815	981.5	0.485
69.	0.814	982.	0.481
69.5	0.814	982.5	0.485
70.	0.813	983.	0.482
70.5	0.814	983.5	0.483
71.	0.813	984.	0.482
71.5	0.812	984.5	0.484
72.	0.811	985.	0.483
72.5	0.812	985.5	0.482
73.	0.81	986.	0.481
73.5	0.809	986.5	0.483
74.	0.81	987.	0.483
74.5	0.811	987.5	0.483
75.	0.809	988.	0.482
75.5	0.808	988.5	0.482
76.	0.807	989.	0.481
76.5	0.808	989.5	0.482
77.	0.807	990.	0.481
77.5	0.806	990.5	0.482
78.	0.806	991.	0.48
78.5	0.806	991.5	0.482
79.	0.806	992.	0.481
79.5	0.804	992.5	0.482
80.	0.804	993.	0.481
80.5	0.803	993.5	0.482
81.	0.804	994.	0.481
81.5	0.803	994.5	0.483
82.	0.8	995.	0.48
82.5	0.802	995.5	0.481
83.	0.801	996.	0.48
83.5	0.801	996.5	0.481
84.	0.8	997.	0.481
84.5	0.799	997.5	0.482

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
85.	0.8	998.	0.48
85.5	0.8	998.5	0.481
86.	0.799	999.	0.48
86.5	0.797	999.5	0.481
87.	0.799	1000.	0.48
87.5	0.798	1000.5	0.482
88.	0.797	1001.	0.48
88.5	0.797	1001.5	0.481
89.	0.797	1002.	0.479
89.5	0.795	1002.5	0.481
90.	0.795	1003.	0.48
90.5	0.794	1003.5	0.479
91.	0.793	1004.	0.48
91.5	0.793	1004.5	0.481
92.	0.793	1005.	0.48
92.5	0.792	1005.5	0.479
93.	0.793	1006.	0.479
93.5	0.792	1006.5	0.481
94.	0.791	1007.	0.479
94.5	0.792	1007.5	0.479
95.	0.79	1008.	0.479
95.5	0.791	1008.5	0.479
96.	0.79	1009.	0.479
96.5	0.789	1009.5	0.48
97.	0.788	1010.	0.478
97.5	0.789	1010.5	0.479
98.	0.788	1011.	0.478
98.5	0.79	1011.5	0.478
99.	0.788	1012.	0.478
99.5	0.787	1012.5	0.479
100.	0.787	1013.	0.478
100.5	0.788	1013.5	0.478
101.	0.786	1014.	0.478
101.5	0.786	1014.5	0.477
102.	0.784	1015.	0.477
102.5	0.785	1015.5	0.478
103.	0.784	1016.	0.477
103.5	0.785	1016.5	0.478
104.	0.784	1017.	0.477
104.5	0.783	1017.5	0.477
105.	0.782	1018.	0.475
105.5	0.782	1018.5	0.477
106.	0.781	1019.	0.476
106.5	0.782	1019.5	0.477
107.	0.781	1020.	0.474
107.5	0.781	1020.5	0.477
108.	0.78	1021.	0.476
108.5	0.781	1021.5	0.477
109.	0.779	1022.	0.475
109.5	0.78	1022.5	0.477
110.	0.778	1023.	0.475
110.5	0.78	1023.5	0.475
111.	0.776	1024.	0.475
111.5	0.777	1024.5	0.477
112.	0.778	1025.	0.475
112.5	0.776	1025.5	0.477
113.	0.776	1026.	0.474
113.5	0.777	1026.5	0.475
114.	0.775	1027.	0.476
114.5	0.776	1027.5	0.475
115.	0.775	1028.	0.475
115.5	0.774	1028.5	0.476
116.	0.774	1029.	0.474
116.5	0.774	1029.5	0.477
117.	0.772	1030.	0.475
117.5	0.773	1030.5	0.476
118.	0.772	1031.	0.475

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
118.5	0.773	1031.5	0.476
119.	0.772	1032.	0.474
119.5	0.772	1032.5	0.475
120.	0.771	1033.	0.474
120.5	0.771	1033.5	0.475
121.	0.77	1034.	0.474
121.5	0.77	1034.5	0.475
122.	0.769	1035.	0.473
122.5	0.77	1035.5	0.474
123.	0.77	1036.	0.473
123.5	0.768	1036.5	0.474
124.	0.766	1037.	0.472
124.5	0.768	1037.5	0.474
125.	0.767	1038.	0.474
125.5	0.768	1038.5	0.474
126.	0.764	1039.	0.473
126.5	0.766	1039.5	0.474
127.	0.765	1040.	0.472
127.5	0.765	1040.5	0.474
128.	0.764	1041.	0.472
128.5	0.766	1041.5	0.473
129.	0.763	1042.	0.473
129.5	0.765	1042.5	0.474
130.	0.762	1043.	0.471
130.5	0.763	1043.5	0.473
131.	0.762	1044.	0.472
131.5	0.762	1044.5	0.474
132.	0.761	1045.	0.472
132.5	0.762	1045.5	0.473
133.	0.76	1046.	0.472
133.5	0.762	1046.5	0.474
134.	0.759	1047.	0.472
134.5	0.76	1047.5	0.473
135.	0.758	1048.	0.472
135.5	0.759	1048.5	0.474
136.	0.758	1049.	0.471
136.5	0.759	1049.5	0.473
137.	0.758	1050.	0.471
137.5	0.759	1050.5	0.473
138.	0.756	1051.	0.471
138.5	0.758	1051.5	0.472
139.	0.755	1052.	0.47
139.5	0.757	1052.5	0.471
140.	0.755	1053.	0.471
140.5	0.756	1053.5	0.472
141.	0.754	1054.	0.471
141.5	0.755	1054.5	0.471
142.	0.753	1055.	0.47
142.5	0.755	1055.5	0.472
143.	0.753	1056.	0.47
143.5	0.755	1056.5	0.47
144.	0.752	1057.	0.47
144.5	0.752	1057.5	0.469
145.	0.752	1058.	0.47
145.5	0.752	1058.5	0.47
146.	0.75	1059.	0.469
146.5	0.751	1059.5	0.47
147.	0.75	1060.	0.47
147.5	0.752	1060.5	0.47
148.	0.75	1061.	0.469
148.5	0.749	1061.5	0.471
149.	0.748	1062.	0.47
149.5	0.751	1062.5	0.47
150.	0.749	1063.	0.47
150.5	0.749	1063.5	0.47
151.	0.748	1064.	0.469
151.5	0.747	1064.5	0.47

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
152.	0.746	1065.	0.469
152.5	0.748	1065.5	0.47
153.	0.745	1066.	0.47
153.5	0.746	1066.5	0.471
154.	0.745	1067.	0.468
154.5	0.746	1067.5	0.469
155.	0.745	1068.	0.47
155.5	0.746	1068.5	0.468
156.	0.743	1069.	0.47
156.5	0.743	1069.5	0.47
157.	0.743	1070.	0.469
157.5	0.744	1070.5	0.468
158.	0.743	1071.	0.468
158.5	0.745	1071.5	0.471
159.	0.742	1072.	0.468
159.5	0.741	1072.5	0.468
160.	0.742	1073.	0.467
160.5	0.742	1073.5	0.468
161.	0.739	1074.	0.468
161.5	0.741	1074.5	0.469
162.	0.739	1075.	0.468
162.5	0.741	1075.5	0.468
163.	0.74	1076.	0.469
163.5	0.74	1076.5	0.469
164.	0.738	1077.	0.467
164.5	0.741	1077.5	0.468
165.	0.738	1078.	0.467
165.5	0.738	1078.5	0.468
166.	0.737	1079.	0.467
166.5	0.74	1079.5	0.468
167.	0.736	1080.	0.466
167.5	0.738	1080.5	0.47
168.	0.736	1081.	0.467
168.5	0.737	1081.5	0.467
169.	0.736	1082.	0.466
169.5	0.737	1082.5	0.467
170.	0.734	1083.	0.465
170.5	0.735	1083.5	0.466
171.	0.735	1084.	0.466
171.5	0.734	1084.5	0.466
172.	0.733	1085.	0.466
172.5	0.735	1085.5	0.467
173.	0.733	1086.	0.465
173.5	0.734	1086.5	0.466
174.	0.731	1087.	0.464
174.5	0.733	1087.5	0.465
175.	0.73	1088.	0.466
175.5	0.733	1088.5	0.466
176.	0.732	1089.	0.465
176.5	0.733	1089.5	0.465
177.	0.731	1090.	0.464
177.5	0.732	1090.5	0.466
178.	0.73	1091.	0.465
178.5	0.732	1091.5	0.466
179.	0.729	1092.	0.463
179.5	0.73	1092.5	0.465
180.	0.728	1093.	0.464
180.5	0.729	1093.5	0.463
181.	0.728	1094.	0.464
181.5	0.728	1094.5	0.462
182.	0.728	1095.	0.466
182.5	0.729	1095.5	0.464
183.	0.727	1096.	0.465
183.5	0.728	1096.5	0.463
184.	0.726	1097.	0.466
184.5	0.727	1097.5	0.463
185.	0.725	1098.	0.464

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
185.5	0.727	1098.5	0.463
186.	0.725	1099.	0.464
186.5	0.727	1099.5	0.463
187.	0.723	1100.	0.465
187.5	0.725	1100.5	0.462
188.	0.724	1101.	0.465
188.5	0.725	1101.5	0.463
189.	0.724	1102.	0.465
189.5	0.724	1102.5	0.464
190.	0.724	1103.	0.464
190.5	0.724	1103.5	0.463
191.	0.724	1104.	0.464
191.5	0.724	1104.5	0.463
192.	0.722	1105.	0.463
192.5	0.722	1105.5	0.464
193.	0.722	1106.	0.464
193.5	0.723	1106.5	0.462
194.	0.721	1107.	0.463
194.5	0.722	1107.5	0.462
195.	0.721	1108.	0.464
195.5	0.722	1108.5	0.462
196.	0.72	1109.	0.463
196.5	0.721	1109.5	0.462
197.	0.719	1110.	0.462
197.5	0.721	1110.5	0.462
198.	0.719	1111.	0.462
198.5	0.721	1111.5	0.463
199.	0.719	1112.	0.462
199.5	0.719	1112.5	0.461
200.	0.716	1113.	0.463
200.5	0.719	1113.5	0.461
201.	0.718	1114.	0.462
201.5	0.717	1114.5	0.463
202.	0.717	1115.	0.462
202.5	0.716	1115.5	0.461
203.	0.717	1116.	0.461
203.5	0.717	1116.5	0.462
204.	0.715	1117.	0.462
204.5	0.716	1117.5	0.46
205.	0.715	1118.	0.461
205.5	0.715	1118.5	0.461
206.	0.715	1119.	0.462
206.5	0.715	1119.5	0.461
207.	0.713	1120.	0.462
207.5	0.714	1120.5	0.462
208.	0.714	1121.	0.461
208.5	0.713	1121.5	0.46
209.	0.712	1122.	0.461
209.5	0.714	1122.5	0.462
210.	0.711	1123.	0.463
210.5	0.713	1123.5	0.461
211.	0.711	1124.	0.461
211.5	0.711	1124.5	0.461
212.	0.711	1125.	0.462
212.5	0.711	1125.5	0.462
213.	0.71	1126.	0.461
213.5	0.711	1126.5	0.462
214.	0.71	1127.	0.461
214.5	0.711	1127.5	0.461
215.	0.707	1128.	0.461
215.5	0.708	1128.5	0.46
216.	0.709	1129.	0.462
216.5	0.708	1129.5	0.461
217.	0.708	1130.	0.46
217.5	0.709	1130.5	0.46
218.	0.706	1131.	0.461
218.5	0.708	1131.5	0.46

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
219.	0.706	1132.	0.461
219.5	0.707	1132.5	0.459
220.	0.705	1133.	0.46
220.5	0.706	1133.5	0.46
221.	0.705	1134.	0.46
221.5	0.706	1134.5	0.459
222.	0.703	1135.	0.458
222.5	0.705	1135.5	0.461
223.	0.705	1136.	0.46
223.5	0.704	1136.5	0.459
224.	0.702	1137.	0.46
224.5	0.705	1137.5	0.46
225.	0.703	1138.	0.459
225.5	0.703	1138.5	0.459
226.	0.703	1139.	0.459
226.5	0.703	1139.5	0.457
227.	0.701	1140.	0.459
227.5	0.704	1140.5	0.458
228.	0.701	1141.	0.458
228.5	0.702	1141.5	0.459
229.	0.701	1142.	0.459
229.5	0.703	1142.5	0.458
230.	0.701	1143.	0.46
230.5	0.7	1143.5	0.459
231.	0.7	1144.	0.458
231.5	0.701	1144.5	0.459
232.	0.701	1145.	0.459
232.5	0.7	1145.5	0.458
233.	0.698	1146.	0.457
233.5	0.699	1146.5	0.459
234.	0.698	1147.	0.458
234.5	0.699	1147.5	0.457
235.	0.698	1148.	0.457
235.5	0.699	1148.5	0.458
236.	0.698	1149.	0.458
236.5	0.7	1149.5	0.458
237.	0.697	1150.	0.458
237.5	0.698	1150.5	0.458
238.	0.695	1151.	0.457
238.5	0.698	1151.5	0.459
239.	0.695	1152.	0.457
239.5	0.697	1152.5	0.457
240.	0.696	1153.	0.457
240.5	0.697	1153.5	0.458
241.	0.695	1154.	0.458
241.5	0.696	1154.5	0.458
242.	0.695	1155.	0.458
242.5	0.695	1155.5	0.458
243.	0.693	1156.	0.457
243.5	0.694	1156.5	0.457
244.	0.694	1157.	0.456
244.5	0.696	1157.5	0.457
245.	0.693	1158.	0.457
245.5	0.694	1158.5	0.457
246.	0.692	1159.	0.457
246.5	0.694	1159.5	0.458
247.	0.691	1160.	0.457
247.5	0.694	1160.5	0.457
248.	0.691	1161.	0.457
248.5	0.693	1161.5	0.457
249.	0.692	1162.	0.456
249.5	0.692	1162.5	0.455
250.	0.69	1163.	0.456
250.5	0.692	1163.5	0.457
251.	0.69	1164.	0.457
251.5	0.691	1164.5	0.456
252.	0.69	1165.	0.457

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
252.5	0.69	1165.5	0.456
253.	0.689	1166.	0.456
253.5	0.689	1166.5	0.455
254.	0.688	1167.	0.455
254.5	0.69	1167.5	0.456
255.	0.688	1168.	0.455
255.5	0.689	1168.5	0.458
256.	0.687	1169.	0.455
256.5	0.689	1169.5	0.457
257.	0.687	1170.	0.456
257.5	0.688	1170.5	0.455
258.	0.687	1171.	0.454
258.5	0.688	1171.5	0.456
259.	0.685	1172.	0.455
259.5	0.687	1172.5	0.457
260.	0.685	1173.	0.455
260.5	0.686	1173.5	0.457
261.	0.686	1174.	0.454
261.5	0.686	1174.5	0.455
262.	0.685	1175.	0.454
262.5	0.685	1175.5	0.456
263.	0.684	1176.	0.454
263.5	0.685	1176.5	0.456
264.	0.683	1177.	0.454
264.5	0.685	1177.5	0.455
265.	0.682	1178.	0.454
265.5	0.684	1178.5	0.455
266.	0.683	1179.	0.454
266.5	0.683	1179.5	0.454
267.	0.682	1180.	0.454
267.5	0.682	1180.5	0.454
268.	0.681	1181.	0.453
268.5	0.682	1181.5	0.455
269.	0.681	1182.	0.456
269.5	0.683	1182.5	0.454
270.	0.681	1183.	0.455
270.5	0.682	1183.5	0.454
271.	0.68	1184.	0.454
271.5	0.681	1184.5	0.453
272.	0.679	1185.	0.454
272.5	0.681	1185.5	0.453
273.	0.68	1186.	0.454
273.5	0.68	1186.5	0.453
274.	0.68	1187.	0.454
274.5	0.679	1187.5	0.454
275.	0.679	1188.	0.454
275.5	0.679	1188.5	0.453
276.	0.679	1189.	0.454
276.5	0.678	1189.5	0.454
277.	0.677	1190.	0.453
277.5	0.679	1190.5	0.452
278.	0.678	1191.	0.452
278.5	0.678	1191.5	0.454
279.	0.677	1192.	0.453
279.5	0.677	1192.5	0.452
280.	0.676	1193.	0.452
280.5	0.677	1193.5	0.453
281.	0.675	1194.	0.452
281.5	0.677	1194.5	0.453
282.	0.676	1195.	0.452
282.5	0.676	1195.5	0.452
283.	0.675	1196.	0.452
283.5	0.676	1196.5	0.451
284.	0.675	1197.	0.451
284.5	0.676	1197.5	0.451
285.	0.675	1198.	0.451
285.5	0.676	1198.5	0.452

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
286.	0.673	1199.	0.45
286.5	0.675	1199.5	0.45
287.	0.673	1200.	0.452
287.5	0.675	1200.5	0.45
288.	0.673	1201.	0.451
288.5	0.674	1201.5	0.45
289.	0.672	1202.	0.451
289.5	0.672	1202.5	0.449
290.	0.672	1203.	0.45
290.5	0.673	1203.5	0.448
291.	0.671	1204.	0.449
291.5	0.672	1204.5	0.45
292.	0.671	1205.	0.449
292.5	0.672	1205.5	0.45
293.	0.67	1206.	0.449
293.5	0.67	1206.5	0.449
294.	0.67	1207.	0.45
294.5	0.671	1207.5	0.449
295.	0.67	1208.	0.45
295.5	0.67	1208.5	0.448
296.	0.667	1209.	0.448
296.5	0.67	1209.5	0.449
297.	0.669	1210.	0.449
297.5	0.669	1210.5	0.448
298.	0.667	1211.	0.449
298.5	0.669	1211.5	0.448
299.	0.667	1212.	0.449
299.5	0.669	1212.5	0.448
300.	0.668	1213.	0.448
300.5	0.667	1213.5	0.448
301.	0.666	1214.	0.449
301.5	0.667	1214.5	0.45
302.	0.666	1215.	0.448
302.5	0.666	1215.5	0.448
303.	0.665	1216.	0.448
303.5	0.665	1216.5	0.448
304.	0.664	1217.	0.448
304.5	0.665	1217.5	0.449
305.	0.664	1218.	0.448
305.5	0.666	1218.5	0.448
306.	0.664	1219.	0.448
306.5	0.665	1219.5	0.447
307.	0.663	1220.	0.446
307.5	0.665	1220.5	0.447
308.	0.663	1221.	0.447
308.5	0.663	1221.5	0.448
309.	0.662	1222.	0.447
309.5	0.663	1222.5	0.448
310.	0.661	1223.	0.447
310.5	0.662	1223.5	0.448
311.	0.661	1224.	0.447
311.5	0.662	1224.5	0.447
312.	0.661	1225.	0.446
312.5	0.663	1225.5	0.447
313.	0.661	1226.	0.447
313.5	0.661	1226.5	0.446
314.	0.661	1227.	0.447
314.5	0.662	1227.5	0.445
315.	0.66	1228.	0.446
315.5	0.663	1228.5	0.446
316.	0.66	1229.	0.448
316.5	0.661	1229.5	0.445
317.	0.66	1230.	0.447
317.5	0.66	1230.5	0.446
318.	0.659	1231.	0.445
318.5	0.66	1231.5	0.445
319.	0.658	1232.	0.446

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
319.5	0.66	1232.5	0.445
320.	0.658	1233.	0.445
320.5	0.661	1233.5	0.448
321.	0.658	1234.	0.446
321.5	0.66	1234.5	0.446
322.	0.657	1235.	0.445
322.5	0.658	1235.5	0.445
323.	0.657	1236.	0.446
323.5	0.659	1236.5	0.445
324.	0.657	1237.	0.446
324.5	0.659	1237.5	0.446
325.	0.657	1238.	0.447
325.5	0.657	1238.5	0.444
326.	0.656	1239.	0.445
326.5	0.657	1239.5	0.445
327.	0.656	1240.	0.444
327.5	0.656	1240.5	0.446
328.	0.655	1241.	0.445
328.5	0.656	1241.5	0.445
329.	0.654	1242.	0.443
329.5	0.655	1242.5	0.445
330.	0.654	1243.	0.444
330.5	0.655	1243.5	0.445
331.	0.654	1244.	0.445
331.5	0.655	1244.5	0.443
332.	0.654	1245.	0.445
332.5	0.656	1245.5	0.444
333.	0.655	1246.	0.445
333.5	0.655	1246.5	0.444
334.	0.654	1247.	0.445
334.5	0.654	1247.5	0.444
335.	0.653	1248.	0.445
335.5	0.653	1248.5	0.444
336.	0.651	1249.	0.445
336.5	0.654	1249.5	0.443
337.	0.651	1250.	0.445
337.5	0.653	1250.5	0.444
338.	0.651	1251.	0.444
338.5	0.652	1251.5	0.443
339.	0.651	1252.	0.444
339.5	0.65	1252.5	0.444
340.	0.65	1253.	0.445
340.5	0.652	1253.5	0.444
341.	0.65	1254.	0.444
341.5	0.651	1254.5	0.443
342.	0.65	1255.	0.444
342.5	0.651	1255.5	0.443
343.	0.648	1256.	0.443
343.5	0.649	1256.5	0.442
344.	0.649	1257.	0.443
344.5	0.649	1257.5	0.443
345.	0.648	1258.	0.443
345.5	0.651	1258.5	0.443
346.	0.648	1259.	0.444
346.5	0.648	1259.5	0.442
347.	0.647	1260.	0.443
347.5	0.648	1260.5	0.443
348.	0.648	1261.	0.443
348.5	0.649	1261.5	0.442
349.	0.647	1262.	0.442
349.5	0.647	1262.5	0.442
350.	0.647	1263.	0.443
350.5	0.647	1263.5	0.442
351.	0.647	1264.	0.442
351.5	0.647	1264.5	0.442
352.	0.646	1265.	0.444
352.5	0.645	1265.5	0.441

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
353.	0.645	1266.	0.442
353.5	0.645	1266.5	0.443
354.	0.644	1267.	0.443
354.5	0.646	1267.5	0.442
355.	0.644	1268.	0.441
355.5	0.645	1268.5	0.443
356.	0.644	1269.	0.444
356.5	0.645	1269.5	0.441
357.	0.642	1270.	0.444
357.5	0.642	1270.5	0.442
358.	0.642	1271.	0.444
358.5	0.643	1271.5	0.441
359.	0.642	1272.	0.442
359.5	0.643	1272.5	0.441
360.	0.641	1273.	0.443
360.5	0.643	1273.5	0.442
361.	0.639	1274.	0.442
361.5	0.641	1274.5	0.442
362.	0.64	1275.	0.443
362.5	0.642	1275.5	0.441
363.	0.64	1276.	0.442
363.5	0.641	1276.5	0.44
364.	0.639	1277.	0.443
364.5	0.641	1277.5	0.44
365.	0.639	1278.	0.442
365.5	0.64	1278.5	0.441
366.	0.639	1279.	0.442
366.5	0.64	1279.5	0.44
367.	0.638	1280.	0.442
367.5	0.638	1280.5	0.44
368.	0.638	1281.	0.441
368.5	0.638	1281.5	0.44
369.	0.637	1282.	0.441
369.5	0.638	1282.5	0.44
370.	0.638	1283.	0.442
370.5	0.637	1283.5	0.44
371.	0.637	1284.	0.44
371.5	0.638	1284.5	0.439
372.	0.635	1285.	0.441
372.5	0.637	1285.5	0.44
373.	0.637	1286.	0.44
373.5	0.638	1286.5	0.441
374.	0.635	1287.	0.44
374.5	0.638	1287.5	0.439
375.	0.635	1288.	0.441
375.5	0.637	1288.5	0.438
376.	0.634	1289.	0.44
376.5	0.636	1289.5	0.439
377.	0.635	1290.	0.44
377.5	0.635	1290.5	0.439
378.	0.634	1291.	0.44
378.5	0.635	1291.5	0.438
379.	0.633	1292.	0.439
379.5	0.635	1292.5	0.438
380.	0.633	1293.	0.439
380.5	0.633	1293.5	0.438
381.	0.633	1294.	0.44
381.5	0.634	1294.5	0.438
382.	0.633	1295.	0.439
382.5	0.634	1295.5	0.438
383.	0.634	1296.	0.439
383.5	0.633	1296.5	0.437
384.	0.632	1297.	0.438
384.5	0.632	1297.5	0.439
385.	0.633	1298.	0.438
385.5	0.632	1298.5	0.438
386.	0.63	1299.	0.438

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
386.5	0.632	1299.5	0.437
387.	0.631	1300.	0.439
387.5	0.632	1300.5	0.437
388.	0.631	1301.	0.438
388.5	0.631	1301.5	0.437
389.	0.631	1302.	0.438
389.5	0.631	1302.5	0.437
390.	0.631	1303.	0.439
390.5	0.63	1303.5	0.437
391.	0.629	1304.	0.438
391.5	0.631	1304.5	0.436
392.	0.63	1305.	0.437
392.5	0.63	1305.5	0.436
393.	0.628	1306.	0.439
393.5	0.63	1306.5	0.436
394.	0.629	1307.	0.438
394.5	0.628	1307.5	0.437
395.	0.629	1308.	0.437
395.5	0.629	1308.5	0.437
396.	0.627	1309.	0.438
396.5	0.63	1309.5	0.436
397.	0.628	1310.	0.438
397.5	0.628	1310.5	0.436
398.	0.627	1311.	0.438
398.5	0.627	1311.5	0.436
399.	0.627	1312.	0.438
399.5	0.628	1312.5	0.436
400.	0.626	1313.	0.438
400.5	0.628	1313.5	0.435
401.	0.626	1314.	0.437
401.5	0.626	1314.5	0.436
402.	0.627	1315.	0.438
402.5	0.626	1315.5	0.436
403.	0.624	1316.	0.437
403.5	0.626	1316.5	0.435
404.	0.625	1317.	0.437
404.5	0.625	1317.5	0.435
405.	0.624	1318.	0.436
405.5	0.627	1318.5	0.436
406.	0.625	1319.	0.437
406.5	0.625	1319.5	0.435
407.	0.623	1320.	0.436
407.5	0.623	1320.5	0.435
408.	0.622	1321.	0.435
408.5	0.624	1321.5	0.435
409.	0.622	1322.	0.435
409.5	0.624	1322.5	0.435
410.	0.622	1323.	0.435
410.5	0.624	1323.5	0.435
411.	0.621	1324.	0.436
411.5	0.621	1324.5	0.434
412.	0.623	1325.	0.435
412.5	0.622	1325.5	0.435
413.	0.621	1326.	0.436
413.5	0.622	1326.5	0.436
414.	0.619	1327.	0.436
414.5	0.621	1327.5	0.434
415.	0.62	1328.	0.434
415.5	0.621	1328.5	0.434
416.	0.619	1329.	0.435
416.5	0.619	1329.5	0.434
417.	0.62	1330.	0.435
417.5	0.621	1330.5	0.434
418.	0.619	1331.	0.435
418.5	0.62	1331.5	0.433
419.	0.619	1332.	0.435
419.5	0.619	1332.5	0.434

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
420.	0.618	1333.	0.435
420.5	0.619	1333.5	0.433
421.	0.618	1334.	0.434
421.5	0.618	1334.5	0.434
422.	0.617	1335.	0.434
422.5	0.618	1335.5	0.432
423.	0.618	1336.	0.435
423.5	0.618	1336.5	0.432
424.	0.616	1337.	0.433
424.5	0.617	1337.5	0.432
425.	0.616	1338.	0.434
425.5	0.618	1338.5	0.43
426.	0.616	1339.	0.433
426.5	0.617	1339.5	0.431
427.	0.617	1340.	0.434
427.5	0.616	1340.5	0.432
428.	0.616	1341.	0.433
428.5	0.617	1341.5	0.431
429.	0.616	1342.	0.434
429.5	0.615	1342.5	0.432
430.	0.615	1343.	0.433
430.5	0.616	1343.5	0.432
431.	0.614	1344.	0.433
431.5	0.615	1344.5	0.432
432.	0.614	1345.	0.433
432.5	0.615	1345.5	0.431
433.	0.613	1346.	0.432
433.5	0.616	1346.5	0.432
434.	0.613	1347.	0.432
434.5	0.615	1347.5	0.43
435.	0.613	1348.	0.431
435.5	0.615	1348.5	0.431
436.	0.614	1349.	0.432
436.5	0.614	1349.5	0.431
437.	0.614	1350.	0.432
437.5	0.612	1350.5	0.429
438.	0.613	1351.	0.432
438.5	0.614	1351.5	0.43
439.	0.612	1352.	0.433
439.5	0.613	1352.5	0.431
440.	0.612	1353.	0.432
440.5	0.613	1353.5	0.43
441.	0.611	1354.	0.433
441.5	0.611	1354.5	0.431
442.	0.612	1355.	0.431
442.5	0.611	1355.5	0.43
443.	0.612	1356.	0.431
443.5	0.61	1356.5	0.43
444.	0.612	1357.	0.43
444.5	0.611	1357.5	0.43
445.	0.611	1358.	0.432
445.5	0.61	1358.5	0.43
446.	0.609	1359.	0.43
446.5	0.609	1359.5	0.43
447.	0.609	1360.	0.431
447.5	0.611	1360.5	0.429
448.	0.608	1361.	0.43
448.5	0.61	1361.5	0.43
449.	0.609	1362.	0.43
449.5	0.609	1362.5	0.43
450.	0.607	1363.	0.43
450.5	0.609	1363.5	0.429
451.	0.608	1364.	0.43
451.5	0.607	1364.5	0.427
452.	0.607	1365.	0.429
452.5	0.608	1365.5	0.43
453.	0.606	1366.	0.429

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
453.5	0.607	1366.5	0.429
454.	0.606	1367.	0.429
454.5	0.607	1367.5	0.427
455.	0.606	1368.	0.429
455.5	0.606	1368.5	0.428
456.	0.606	1369.	0.429
456.5	0.606	1369.5	0.427
457.	0.606	1370.	0.428
457.5	0.605	1370.5	0.427
458.	0.605	1371.	0.428
458.5	0.607	1371.5	0.427
459.	0.604	1372.	0.428
459.5	0.605	1372.5	0.427
460.	0.604	1373.	0.428
460.5	0.604	1373.5	0.426
461.	0.603	1374.	0.427
461.5	0.605	1374.5	0.427
462.	0.605	1375.	0.429
462.5	0.605	1375.5	0.427
463.	0.603	1376.	0.428
463.5	0.604	1376.5	0.426
464.	0.602	1377.	0.427
464.5	0.603	1377.5	0.424
465.	0.603	1378.	0.427
465.5	0.603	1378.5	0.426
466.	0.603	1379.	0.427
466.5	0.603	1379.5	0.426
467.	0.602	1380.	0.426
467.5	0.6	1380.5	0.426
468.	0.602	1381.	0.428
468.5	0.603	1381.5	0.425
469.	0.602	1382.	0.427
469.5	0.602	1382.5	0.425
470.	0.601	1383.	0.427
470.5	0.601	1383.5	0.423
471.	0.6	1384.	0.426
471.5	0.602	1384.5	0.425
472.	0.599	1385.	0.426
472.5	0.6	1385.5	0.424
473.	0.599	1386.	0.426
473.5	0.6	1386.5	0.424
474.	0.599	1387.	0.425
474.5	0.6	1387.5	0.426
475.	0.598	1388.	0.426
475.5	0.599	1388.5	0.425
476.	0.599	1389.	0.425
476.5	0.599	1389.5	0.423
477.	0.598	1390.	0.425
477.5	0.597	1390.5	0.423
478.	0.597	1391.	0.425
478.5	0.598	1391.5	0.424
479.	0.597	1392.	0.425
479.5	0.597	1392.5	0.425
480.	0.597	1393.	0.424
480.5	0.596	1393.5	0.423
481.	0.596	1394.	0.426
481.5	0.597	1394.5	0.425
482.	0.596	1395.	0.425
482.5	0.595	1395.5	0.424
483.	0.597	1396.	0.425
483.5	0.596	1396.5	0.423
484.	0.596	1397.	0.425
484.5	0.596	1397.5	0.424
485.	0.595	1398.	0.426
485.5	0.594	1398.5	0.422
486.	0.595	1399.	0.424
486.5	0.596	1399.5	0.424

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
487.	0.595	1400.	0.425
487.5	0.596	1400.5	0.423
488.	0.594	1401.	0.425
488.5	0.596	1401.5	0.423
489.	0.594	1402.	0.424
489.5	0.596	1402.5	0.423
490.	0.595	1403.	0.425
490.5	0.595	1403.5	0.424
491.	0.595	1404.	0.424
491.5	0.596	1404.5	0.424
492.	0.593	1405.	0.424
492.5	0.595	1405.5	0.423
493.	0.594	1406.	0.425
493.5	0.594	1406.5	0.423
494.	0.594	1407.	0.426
494.5	0.593	1407.5	0.423
495.	0.594	1408.	0.425
495.5	0.595	1408.5	0.423
496.	0.593	1409.	0.426
496.5	0.593	1409.5	0.423
497.	0.594	1410.	0.425
497.5	0.594	1410.5	0.423
498.	0.593	1411.	0.424
498.5	0.594	1411.5	0.424
499.	0.592	1412.	0.424
499.5	0.592	1412.5	0.423
500.	0.593	1413.	0.423
500.5	0.592	1413.5	0.424
501.	0.592	1414.	0.423
501.5	0.592	1414.5	0.423
502.	0.591	1415.	0.424
502.5	0.591	1415.5	0.425
503.	0.591	1416.	0.425
503.5	0.592	1416.5	0.426
504.	0.592	1417.	0.425
504.5	0.59	1417.5	0.424
505.	0.591	1418.	0.425
505.5	0.591	1418.5	0.425
506.	0.59	1419.	0.426
506.5	0.592	1419.5	0.425
507.	0.59	1420.	0.426
507.5	0.59	1420.5	0.425
508.	0.589	1421.	0.424
508.5	0.589	1421.5	0.424
509.	0.588	1422.	0.425
509.5	0.588	1422.5	0.425
510.	0.589	1423.	0.424
510.5	0.588	1423.5	0.423
511.	0.589	1424.	0.421
511.5	0.587	1424.5	0.423
512.	0.589	1425.	0.422
512.5	0.588	1425.5	0.423
513.	0.587	1426.	0.422
513.5	0.588	1426.5	0.423
514.	0.588	1427.	0.422
514.5	0.588	1427.5	0.424
515.	0.586	1428.	0.423
515.5	0.586	1428.5	0.423
516.	0.587	1429.	0.424
516.5	0.587	1429.5	0.422
517.	0.588	1430.	0.422
517.5	0.586	1430.5	0.422
518.	0.587	1431.	0.423
518.5	0.586	1431.5	0.422
519.	0.586	1432.	0.422
519.5	0.585	1432.5	0.423
520.	0.585	1433.	0.423

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
520.5	0.585	1433.5	0.423
521.	0.585	1434.	0.422
521.5	0.585	1434.5	0.421
522.	0.585	1435.	0.423
522.5	0.585	1435.5	0.423
523.	0.584	1436.	0.423
523.5	0.585	1436.5	0.423
524.	0.584	1437.	0.422
524.5	0.583	1437.5	0.422
525.	0.585	1438.	0.421
525.5	0.584	1438.5	0.422
526.	0.583	1439.	0.423
526.5	0.584	1439.5	0.421
527.	0.584	1440.	0.422
527.5	0.584	1440.5	0.422
528.	0.584	1441.	0.422
528.5	0.582	1441.5	0.422
529.	0.584	1442.	0.421
529.5	0.582	1442.5	0.421
530.	0.583	1443.	0.421
530.5	0.583	1443.5	0.422
531.	0.583	1444.	0.421
531.5	0.583	1444.5	0.423
532.	0.582	1445.	0.421
532.5	0.582	1445.5	0.421
533.	0.581	1446.	0.421
533.5	0.581	1446.5	0.421
534.	0.583	1447.	0.421
534.5	0.581	1447.5	0.421
535.	0.582	1448.	0.421
535.5	0.581	1448.5	0.42
536.	0.581	1449.	0.422
536.5	0.58	1449.5	0.419
537.	0.582	1450.	0.421
537.5	0.58	1450.5	0.421
538.	0.58	1451.	0.421
538.5	0.58	1451.5	0.42
539.	0.58	1452.	0.42
539.5	0.581	1452.5	0.421
540.	0.581	1453.	0.421
540.5	0.58	1453.5	0.42
541.	0.58	1454.	0.42
541.5	0.579	1454.5	0.42
542.	0.578	1455.	0.421
542.5	0.58	1455.5	0.42
543.	0.578	1456.	0.42
543.5	0.578	1456.5	0.419
544.	0.578	1457.	0.419
544.5	0.579	1457.5	0.419
545.	0.579	1458.	0.418
545.5	0.577	1458.5	0.419
546.	0.577	1459.	0.419
546.5	0.578	1459.5	0.419
547.	0.577	1460.	0.419
547.5	0.578	1460.5	0.418
548.	0.576	1461.	0.417
548.5	0.577	1461.5	0.419
549.	0.576	1462.	0.418
549.5	0.577	1462.5	0.419
550.	0.577	1463.	0.418
550.5	0.576	1463.5	0.417
551.	0.577	1464.	0.417
551.5	0.574	1464.5	0.418
552.	0.577	1465.	0.417
552.5	0.575	1465.5	0.418
553.	0.577	1466.	0.418
553.5	0.574	1466.5	0.418

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
554.	0.576	1467.	0.417
554.5	0.576	1467.5	0.417
555.	0.575	1468.	0.418
555.5	0.574	1468.5	0.417
556.	0.574	1469.	0.416
556.5	0.575	1469.5	0.417
557.	0.575	1470.	0.417
557.5	0.575	1470.5	0.417
558.	0.573	1471.	0.416
558.5	0.573	1471.5	0.417
559.	0.574	1472.	0.416
559.5	0.574	1472.5	0.417
560.	0.574	1473.	0.417
560.5	0.572	1473.5	0.416
561.	0.574	1474.	0.416
561.5	0.573	1474.5	0.416
562.	0.573	1475.	0.417
562.5	0.573	1475.5	0.415
563.	0.574	1476.	0.415
563.5	0.573	1476.5	0.416
564.	0.572	1477.	0.415
564.5	0.573	1477.5	0.416
565.	0.573	1478.	0.416
565.5	0.573	1478.5	0.415
566.	0.572	1479.	0.414
566.5	0.573	1479.5	0.416
567.	0.572	1480.	0.417
567.5	0.571	1480.5	0.416
568.	0.573	1481.	0.416
568.5	0.57	1481.5	0.416
569.	0.573	1482.	0.415
569.5	0.571	1482.5	0.415
570.	0.57	1483.	0.415
570.5	0.571	1483.5	0.415
571.	0.571	1484.	0.416
571.5	0.571	1484.5	0.416
572.	0.572	1485.	0.415
572.5	0.571	1485.5	0.414
573.	0.571	1486.	0.416
573.5	0.571	1486.5	0.414
574.	0.57	1487.	0.416
574.5	0.571	1487.5	0.415
575.	0.57	1488.	0.416
575.5	0.569	1488.5	0.415
576.	0.57	1489.	0.415
576.5	0.57	1489.5	0.416
577.	0.569	1490.	0.415
577.5	0.569	1490.5	0.416
578.	0.569	1491.	0.416
578.5	0.569	1491.5	0.415
579.	0.569	1492.	0.416
579.5	0.568	1492.5	0.416
580.	0.568	1493.	0.416
580.5	0.569	1493.5	0.415
581.	0.568	1494.	0.415
581.5	0.568	1494.5	0.416
582.	0.567	1495.	0.415
582.5	0.568	1495.5	0.414
583.	0.566	1496.	0.416
583.5	0.567	1496.5	0.414
584.	0.567	1497.	0.414
584.5	0.569	1497.5	0.415
585.	0.568	1498.	0.417
585.5	0.566	1498.5	0.414
586.	0.567	1499.	0.415
586.5	0.566	1499.5	0.415
587.	0.566	1500.	0.414

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
587.5	0.567	1500.5	0.415
588.	0.566	1501.	0.415
588.5	0.566	1501.5	0.413
589.	0.566	1502.	0.414
589.5	0.566	1502.5	0.413
590.	0.566	1503.	0.414
590.5	0.564	1503.5	0.413
591.	0.566	1504.	0.414
591.5	0.563	1504.5	0.414
592.	0.565	1505.	0.414
592.5	0.564	1505.5	0.414
593.	0.565	1506.	0.413
593.5	0.564	1506.5	0.413
594.	0.565	1507.	0.413
594.5	0.563	1507.5	0.413
595.	0.566	1508.	0.414
595.5	0.565	1508.5	0.414
596.	0.563	1509.	0.412
596.5	0.564	1509.5	0.412
597.	0.564	1510.	0.413
597.5	0.563	1510.5	0.413
598.	0.563	1511.	0.412
598.5	0.564	1511.5	0.414
599.	0.562	1512.	0.413
599.5	0.563	1512.5	0.412
600.	0.562	1513.	0.413
600.5	0.562	1513.5	0.413
601.	0.563	1514.	0.413
601.5	0.561	1514.5	0.413
602.	0.561	1515.	0.414
602.5	0.561	1515.5	0.413
603.	0.562	1516.	0.413
603.5	0.561	1516.5	0.413
604.	0.561	1517.	0.413
604.5	0.561	1517.5	0.413
605.	0.56	1518.	0.413
605.5	0.56	1518.5	0.412
606.	0.56	1519.	0.413
606.5	0.56	1519.5	0.413
607.	0.56	1520.	0.412
607.5	0.56	1520.5	0.411
608.	0.561	1521.	0.413
608.5	0.56	1521.5	0.412
609.	0.559	1522.	0.411
609.5	0.558	1522.5	0.413
610.	0.56	1523.	0.411
610.5	0.559	1523.5	0.413
611.	0.558	1524.	0.411
611.5	0.559	1524.5	0.413
612.	0.559	1525.	0.412
612.5	0.558	1525.5	0.412
613.	0.558	1526.	0.412
613.5	0.558	1526.5	0.413
614.	0.558	1527.	0.412
614.5	0.559	1527.5	0.412
615.	0.557	1528.	0.412
615.5	0.558	1528.5	0.413
616.	0.558	1529.	0.413
616.5	0.556	1529.5	0.411
617.	0.558	1530.	0.412
617.5	0.556	1530.5	0.414
618.	0.559	1531.	0.412
618.5	0.556	1531.5	0.411
619.	0.558	1532.	0.412
619.5	0.556	1532.5	0.41
620.	0.558	1533.	0.412
620.5	0.556	1533.5	0.412

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
621.	0.556	1534.	0.411
621.5	0.556	1534.5	0.412
622.	0.557	1535.	0.41
622.5	0.555	1535.5	0.41
623.	0.556	1536.	0.411
623.5	0.557	1536.5	0.41
624.	0.556	1537.	0.411
624.5	0.556	1537.5	0.41
625.	0.556	1538.	0.41
625.5	0.556	1538.5	0.411
626.	0.554	1539.	0.411
626.5	0.556	1539.5	0.411
627.	0.556	1540.	0.411
627.5	0.555	1540.5	0.412
628.	0.556	1541.	0.41
628.5	0.556	1541.5	0.41
629.	0.554	1542.	0.411
629.5	0.554	1542.5	0.41
630.	0.553	1543.	0.409
630.5	0.554	1543.5	0.411
631.	0.554	1544.	0.41
631.5	0.554	1544.5	0.411
632.	0.555	1545.	0.41
632.5	0.554	1545.5	0.409
633.	0.554	1546.	0.409
633.5	0.555	1546.5	0.41
634.	0.555	1547.	0.41
634.5	0.553	1547.5	0.411
635.	0.554	1548.	0.409
635.5	0.553	1548.5	0.409
636.	0.554	1549.	0.41
636.5	0.554	1549.5	0.409
637.	0.553	1550.	0.41
637.5	0.553	1550.5	0.408
638.	0.553	1551.	0.41
638.5	0.554	1551.5	0.409
639.	0.553	1552.	0.41
639.5	0.552	1552.5	0.409
640.	0.553	1553.	0.408
640.5	0.552	1553.5	0.409
641.	0.552	1554.	0.408
641.5	0.552	1554.5	0.409
642.	0.551	1555.	0.41
642.5	0.552	1555.5	0.41
643.	0.551	1556.	0.408
643.5	0.55	1556.5	0.408
644.	0.552	1557.	0.407
644.5	0.551	1557.5	0.407
645.	0.551	1558.	0.409
645.5	0.552	1558.5	0.408
646.	0.551	1559.	0.408
646.5	0.55	1559.5	0.408
647.	0.55	1560.	0.408
647.5	0.55	1560.5	0.408
648.	0.55	1561.	0.408
648.5	0.549	1561.5	0.408
649.	0.551	1562.	0.408
649.5	0.55	1562.5	0.407
650.	0.551	1563.	0.408
650.5	0.55	1563.5	0.406
651.	0.55	1564.	0.407
651.5	0.549	1564.5	0.407
652.	0.549	1565.	0.409
652.5	0.55	1565.5	0.405
653.	0.55	1566.	0.408
653.5	0.549	1566.5	0.408
654.	0.548	1567.	0.408

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
654.5	0.549	1567.5	0.407
655.	0.549	1568.	0.409
655.5	0.549	1568.5	0.408
656.	0.548	1569.	0.408
656.5	0.55	1569.5	0.407
657.	0.549	1570.	0.409
657.5	0.549	1570.5	0.407
658.	0.547	1571.	0.408
658.5	0.549	1571.5	0.407
659.	0.548	1572.	0.407
659.5	0.55	1572.5	0.408
660.	0.548	1573.	0.407
660.5	0.547	1573.5	0.407
661.	0.548	1574.	0.408
661.5	0.548	1574.5	0.407
662.	0.547	1575.	0.407
662.5	0.547	1575.5	0.407
663.	0.547	1576.	0.407
663.5	0.547	1576.5	0.409
664.	0.546	1577.	0.408
664.5	0.547	1577.5	0.408
665.	0.546	1578.	0.408
665.5	0.548	1578.5	0.407
666.	0.546	1579.	0.408
666.5	0.547	1579.5	0.408
667.	0.546	1580.	0.408
667.5	0.547	1580.5	0.408
668.	0.546	1581.	0.408
668.5	0.546	1581.5	0.407
669.	0.547	1582.	0.408
669.5	0.546	1582.5	0.406
670.	0.545	1583.	0.408
670.5	0.545	1583.5	0.406
671.	0.545	1584.	0.408
671.5	0.544	1584.5	0.407
672.	0.545	1585.	0.408
672.5	0.545	1585.5	0.406
673.	0.545	1586.	0.408
673.5	0.545	1586.5	0.408
674.	0.544	1587.	0.407
674.5	0.545	1587.5	0.407
675.	0.545	1588.	0.407
675.5	0.545	1588.5	0.408
676.	0.543	1589.	0.406
676.5	0.544	1589.5	0.408
677.	0.543	1590.	0.407
677.5	0.545	1590.5	0.408
678.	0.544	1591.	0.407
678.5	0.544	1591.5	0.407
679.	0.544	1592.	0.406
679.5	0.544	1592.5	0.406
680.	0.544	1593.	0.405
680.5	0.544	1593.5	0.406
681.	0.543	1594.	0.405
681.5	0.543	1594.5	0.407
682.	0.543	1595.	0.406
682.5	0.543	1595.5	0.407
683.	0.544	1596.	0.407
683.5	0.543	1596.5	0.406
684.	0.543	1597.	0.405
684.5	0.543	1597.5	0.405
685.	0.542	1598.	0.406
685.5	0.543	1598.5	0.405
686.	0.542	1599.	0.406
686.5	0.543	1599.5	0.404
687.	0.542	1600.	0.406
687.5	0.541	1600.5	0.405

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
688.	0.541	1601.	0.405
688.5	0.541	1601.5	0.403
689.	0.543	1602.	0.405
689.5	0.542	1602.5	0.405
690.	0.542	1603.	0.406
690.5	0.541	1603.5	0.403
691.	0.543	1604.	0.406
691.5	0.54	1604.5	0.404
692.	0.542	1605.	0.405
692.5	0.541	1605.5	0.404
693.	0.541	1606.	0.404
693.5	0.541	1606.5	0.404
694.	0.54	1607.	0.405
694.5	0.54	1607.5	0.404
695.	0.541	1608.	0.404
695.5	0.54	1608.5	0.402
696.	0.54	1609.	0.404
696.5	0.54	1609.5	0.404
697.	0.54	1610.	0.404
697.5	0.54	1610.5	0.404
698.	0.54	1611.	0.405
698.5	0.54	1611.5	0.404
699.	0.539	1612.	0.405
699.5	0.539	1612.5	0.404
700.	0.538	1613.	0.405
700.5	0.539	1613.5	0.405
701.	0.539	1614.	0.405
701.5	0.538	1614.5	0.405
702.	0.538	1615.	0.405
702.5	0.538	1615.5	0.404
703.	0.539	1616.	0.405
703.5	0.538	1616.5	0.404
704.	0.537	1617.	0.405
704.5	0.538	1617.5	0.404
705.	0.537	1618.	0.404
705.5	0.536	1618.5	0.404
706.	0.536	1619.	0.405
706.5	0.538	1619.5	0.405
707.	0.536	1620.	0.405
707.5	0.537	1620.5	0.404
708.	0.537	1621.	0.405
708.5	0.536	1621.5	0.404
709.	0.536	1622.	0.404
709.5	0.536	1622.5	0.404
710.	0.536	1623.	0.405
710.5	0.535	1623.5	0.404
711.	0.534	1624.	0.403
711.5	0.536	1624.5	0.403
712.	0.536	1625.	0.403
712.5	0.536	1625.5	0.404
713.	0.536	1626.	0.403
713.5	0.535	1626.5	0.404
714.	0.533	1627.	0.404
714.5	0.535	1627.5	0.404
715.	0.534	1628.	0.404
715.5	0.535	1628.5	0.405
716.	0.533	1629.	0.403
716.5	0.535	1629.5	0.403
717.	0.533	1630.	0.403
717.5	0.535	1630.5	0.402
718.	0.534	1631.	0.403
718.5	0.535	1631.5	0.402
719.	0.533	1632.	0.403
719.5	0.534	1632.5	0.403
720.	0.533	1633.	0.403
720.5	0.534	1633.5	0.402
721.	0.534	1634.	0.402

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
721.5	0.536	1634.5	0.402
722.	0.533	1635.	0.402
722.5	0.533	1635.5	0.402
723.	0.532	1636.	0.402
723.5	0.532	1636.5	0.402
724.	0.532	1637.	0.402
724.5	0.532	1637.5	0.4
725.	0.532	1638.	0.401
725.5	0.532	1638.5	0.4
726.	0.532	1639.	0.402
726.5	0.531	1639.5	0.4
727.	0.532	1640.	0.401
727.5	0.533	1640.5	0.4
728.	0.532	1641.	0.4
728.5	0.532	1641.5	0.401
729.	0.532	1642.	0.401
729.5	0.532	1642.5	0.401
730.	0.531	1643.	0.401
730.5	0.53	1643.5	0.401
731.	0.532	1644.	0.4
731.5	0.531	1644.5	0.4
732.	0.531	1645.	0.401
732.5	0.53	1645.5	0.398
733.	0.531	1646.	0.401
733.5	0.53	1646.5	0.399
734.	0.531	1647.	0.4
734.5	0.529	1647.5	0.401
735.	0.53	1648.	0.4
735.5	0.531	1648.5	0.401
736.	0.529	1649.	0.4
736.5	0.53	1649.5	0.4
737.	0.531	1650.	0.4
737.5	0.53	1650.5	0.399
738.	0.53	1651.	0.402
738.5	0.53	1651.5	0.398
739.	0.53	1652.	0.4
739.5	0.529	1652.5	0.399
740.	0.529	1653.	0.4
740.5	0.528	1653.5	0.399
741.	0.53	1654.	0.401
741.5	0.529	1654.5	0.398
742.	0.531	1655.	0.4
742.5	0.528	1655.5	0.398
743.	0.528	1656.	0.399
743.5	0.528	1656.5	0.399
744.	0.529	1657.	0.4
744.5	0.528	1657.5	0.398
745.	0.529	1658.	0.4
745.5	0.528	1658.5	0.398
746.	0.527	1659.	0.399
746.5	0.529	1659.5	0.398
747.	0.528	1660.	0.401
747.5	0.527	1660.5	0.398
748.	0.527	1661.	0.4
748.5	0.528	1661.5	0.399
749.	0.528	1662.	0.4
749.5	0.528	1662.5	0.398
750.	0.528	1663.	0.4
750.5	0.527	1663.5	0.398
751.	0.527	1664.	0.4
751.5	0.528	1664.5	0.399
752.	0.526	1665.	0.4
752.5	0.527	1665.5	0.398
753.	0.527	1666.	0.398
753.5	0.528	1666.5	0.398
754.	0.525	1667.	0.4
754.5	0.527	1667.5	0.398

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
755.	0.526	1668.	0.401
755.5	0.528	1668.5	0.398
756.	0.525	1669.	0.399
756.5	0.526	1669.5	0.398
757.	0.525	1670.	0.398
757.5	0.525	1670.5	0.398
758.	0.526	1671.	0.398
758.5	0.527	1671.5	0.398
759.	0.526	1672.	0.399
759.5	0.525	1672.5	0.398
760.	0.525	1673.	0.397
760.5	0.527	1673.5	0.397
761.	0.525	1674.	0.398
761.5	0.525	1674.5	0.397
762.	0.525	1675.	0.398
762.5	0.525	1675.5	0.398
763.	0.525	1676.	0.397
763.5	0.524	1676.5	0.398
764.	0.526	1677.	0.398
764.5	0.524	1677.5	0.397
765.	0.525	1678.	0.398
765.5	0.524	1678.5	0.397
766.	0.525	1679.	0.398
766.5	0.523	1679.5	0.396
767.	0.524	1680.	0.397
767.5	0.524	1680.5	0.397
768.	0.522	1681.	0.399
768.5	0.523	1681.5	0.397
769.	0.523	1682.	0.397
769.5	0.525	1682.5	0.397
770.	0.523	1683.	0.397
770.5	0.524	1683.5	0.396
771.	0.524	1684.	0.398
771.5	0.524	1684.5	0.395
772.	0.524	1685.	0.397
772.5	0.523	1685.5	0.395
773.	0.523	1686.	0.397
773.5	0.523	1686.5	0.396
774.	0.522	1687.	0.398
774.5	0.523	1687.5	0.395
775.	0.521	1688.	0.398
775.5	0.522	1688.5	0.395
776.	0.522	1689.	0.396
776.5	0.521	1689.5	0.396
777.	0.522	1690.	0.397
777.5	0.521	1690.5	0.396
778.	0.521	1691.	0.397
778.5	0.522	1691.5	0.395
779.	0.52	1692.	0.398
779.5	0.521	1692.5	0.396
780.	0.52	1693.	0.397
780.5	0.521	1693.5	0.395
781.	0.521	1694.	0.398
781.5	0.522	1694.5	0.396
782.	0.521	1695.	0.397
782.5	0.521	1695.5	0.395
783.	0.52	1696.	0.398
783.5	0.52	1696.5	0.395
784.	0.52	1697.	0.398
784.5	0.52	1697.5	0.397
785.	0.519	1698.	0.396
785.5	0.521	1698.5	0.395
786.	0.519	1699.	0.399
786.5	0.521	1699.5	0.395
787.	0.52	1700.	0.397
787.5	0.52	1700.5	0.396
788.	0.519	1701.	0.395

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
788.5	0.519	1701.5	0.397
789.	0.518	1702.	0.396
789.5	0.518	1702.5	0.395
790.	0.519	1703.	0.397
790.5	0.518	1703.5	0.396
791.	0.517	1704.	0.396
791.5	0.518	1704.5	0.397
792.	0.517	1705.	0.398
792.5	0.518	1705.5	0.395
793.	0.518	1706.	0.398
793.5	0.517	1706.5	0.396
794.	0.517	1707.	0.397
794.5	0.517	1707.5	0.396
795.	0.517	1708.	0.396
795.5	0.518	1708.5	0.396
796.	0.517	1709.	0.397
796.5	0.517	1709.5	0.396
797.	0.517	1710.	0.397
797.5	0.517	1710.5	0.397
798.	0.517	1711.	0.397
798.5	0.517	1711.5	0.396
799.	0.517	1712.	0.397
799.5	0.516	1712.5	0.396
800.	0.517	1713.	0.397
800.5	0.517	1713.5	0.396
801.	0.517	1714.	0.397
801.5	0.516	1714.5	0.396
802.	0.515	1715.	0.397
802.5	0.516	1715.5	0.397
803.	0.515	1716.	0.396
803.5	0.516	1716.5	0.395
804.	0.513	1717.	0.396
804.5	0.516	1717.5	0.395
805.	0.515	1718.	0.396
805.5	0.517	1718.5	0.394
806.	0.514	1719.	0.395
806.5	0.514	1719.5	0.394
807.	0.517	1720.	0.395
807.5	0.515	1720.5	0.394
808.	0.515	1721.	0.394
808.5	0.513	1721.5	0.394
809.	0.515	1722.	0.395
809.5	0.514	1722.5	0.394
810.	0.514	1723.	0.395
810.5	0.514	1723.5	0.394
811.	0.515	1724.	0.394
811.5	0.515	1724.5	0.394
812.	0.515	1725.	0.395
812.5	0.514	1725.5	0.394
813.	0.514	1726.	0.395
813.5	0.515	1726.5	0.394
814.	0.513	1727.	0.395
814.5	0.515	1727.5	0.395
815.	0.515	1728.	0.394
815.5	0.513	1728.5	0.393
816.	0.513	1729.	0.393
816.5	0.513	1729.5	0.394
817.	0.513	1730.	0.395
817.5	0.514	1730.5	0.393
818.	0.512	1731.	0.394
818.5	0.514	1731.5	0.391
819.	0.512	1732.	0.394
819.5	0.512	1732.5	0.393
820.	0.512	1733.	0.395
820.5	0.513	1733.5	0.393
821.	0.513	1734.	0.394
821.5	0.512	1734.5	0.393

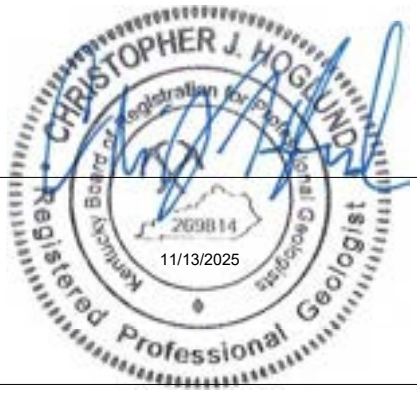
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
822.	0.514	1735.	0.394
822.5	0.513	1735.5	0.394
823.	0.514	1736.	0.395
823.5	0.512	1736.5	0.395
824.	0.513	1737.	0.395
824.5	0.513	1737.5	0.393
825.	0.513	1738.	0.394
825.5	0.512	1738.5	0.394
826.	0.511	1739.	0.394
826.5	0.511	1739.5	0.393
827.	0.513	1740.	0.395
827.5	0.513	1740.5	0.392
828.	0.511	1741.	0.395
828.5	0.51	1741.5	0.393
829.	0.512	1742.	0.394
829.5	0.511	1742.5	0.393
830.	0.512	1743.	0.395
830.5	0.51	1743.5	0.393
831.	0.512	1744.	0.396
831.5	0.512	1744.5	0.394
832.	0.511	1745.	0.394
832.5	0.509	1745.5	0.392
833.	0.51	1746.	0.393
833.5	0.511	1746.5	0.392
834.	0.511	1747.	0.394
834.5	0.51	1747.5	0.393
835.	0.51	1748.	0.393
835.5	0.51	1748.5	0.392
836.	0.511	1749.	0.394
836.5	0.511	1749.5	0.393
837.	0.511	1750.	0.394
837.5	0.511	1750.5	0.391
838.	0.509	1751.	0.396
838.5	0.511	1751.5	0.393
839.	0.509	1752.	0.394
839.5	0.508	1752.5	0.393
840.	0.509	1753.	0.394
840.5	0.509	1753.5	0.393
841.	0.51	1754.	0.394
841.5	0.508	1754.5	0.392
842.	0.509	1755.	0.394
842.5	0.508	1755.5	0.392
843.	0.508	1756.	0.394
843.5	0.508	1756.5	0.392
844.	0.508	1757.	0.393
844.5	0.508	1757.5	0.392
845.	0.509	1758.	0.392
845.5	0.508	1758.5	0.392
846.	0.507	1759.	0.392
846.5	0.507	1759.5	0.391
847.	0.509	1760.	0.392
847.5	0.506	1760.5	0.391
848.	0.508	1761.	0.392
848.5	0.508	1761.5	0.391
849.	0.507	1762.	0.393
849.5	0.506	1762.5	0.393
850.	0.509	1763.	0.392
850.5	0.507	1763.5	0.391
851.	0.507	1764.	0.394
851.5	0.506	1764.5	0.392
852.	0.506	1765.	0.392
852.5	0.506	1765.5	0.392
853.	0.508	1766.	0.393
853.5	0.507	1766.5	0.393
854.	0.506	1767.	0.392
854.5	0.506	1767.5	0.391
855.	0.507	1768.	0.392

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
855.5	0.505	1768.5	0.391
856.	0.504	1769.	0.393
856.5	0.505	1769.5	0.39
857.	0.506	1770.	0.391
857.5	0.506	1770.5	0.39
858.	0.506	1771.	0.391
858.5	0.504	1771.5	0.391
859.	0.505	1772.	0.391
859.5	0.504	1772.5	0.391
860.	0.504	1773.	0.391
860.5	0.505	1773.5	0.391
861.	0.504	1774.	0.392
861.5	0.505	1774.5	0.389
862.	0.506	1775.	0.392
862.5	0.506	1775.5	0.39
863.	0.506	1776.	0.392
863.5	0.505	1776.5	0.39
864.	0.505	1777.	0.392
864.5	0.504	1777.5	0.39
865.	0.503	1778.	0.391
865.5	0.505	1778.5	0.39
866.	0.504	1779.	0.392
866.5	0.503	1779.5	0.39
867.	0.504	1780.	0.39
867.5	0.503	1780.5	0.389
868.	0.503	1781.	0.391
868.5	0.503	1781.5	0.39
869.	0.504	1782.	0.39
869.5	0.503	1782.5	0.388
870.	0.504	1783.	0.391
870.5	0.503	1783.5	0.388
871.	0.504	1784.	0.39
871.5	0.503	1784.5	0.39
872.	0.502	1785.	0.391
872.5	0.503	1785.5	0.388
873.	0.503	1786.	0.391
873.5	0.503	1786.5	0.388
874.	0.502	1787.	0.39
874.5	0.502	1787.5	0.388
875.	0.503	1788.	0.39
875.5	0.502	1788.5	0.388
876.	0.503	1789.	0.391
876.5	0.502	1789.5	0.389
877.	0.503	1790.	0.39
877.5	0.501	1790.5	0.389
878.	0.502	1791.	0.39
878.5	0.503	1791.5	0.389
879.	0.501	1792.	0.39
879.5	0.503	1792.5	0.389
880.	0.502	1793.	0.389
880.5	0.503	1793.5	0.388
881.	0.501	1794.	0.389
881.5	0.502	1794.5	0.388
882.	0.502	1795.	0.39
882.5	0.501	1795.5	0.389
883.	0.502	1796.	0.389
883.5	0.5	1796.5	0.387
884.	0.502	1797.	0.388
884.5	0.501	1797.5	0.388
885.	0.502	1798.	0.389
885.5	0.501	1798.5	0.388
886.	0.501	1799.	0.39
886.5	0.501	1799.5	0.388
887.	0.5	1800.	0.389
887.5	0.501	1800.5	0.387
888.	0.501	1801.	0.389
888.5	0.501	1801.5	0.388

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
889.	0.5	1802.	0.388
889.5	0.499	1802.5	0.387
890.	0.5	1803.	0.389
890.5	0.499	1803.5	0.387
891.	0.5	1804.	0.388
891.5	0.499	1804.5	0.388
892.	0.501	1805.	0.388
892.5	0.499	1805.5	0.387
893.	0.499	1806.	0.389
893.5	0.498	1806.5	0.387
894.	0.499	1807.	0.389
894.5	0.499	1807.5	0.388
895.	0.499	1808.	0.389
895.5	0.499	1808.5	0.388
896.	0.499	1809.	0.39
896.5	0.498	1809.5	0.386
897.	0.497	1810.	0.389
897.5	0.499	1810.5	0.387
898.	0.498	1811.	0.389
898.5	0.498	1811.5	0.387
899.	0.498	1812.	0.388
899.5	0.498	1812.5	0.387
900.	0.497	1813.	0.389
900.5	0.498	1813.5	0.388
901.	0.498	1814.	0.389
901.5	0.499	1814.5	0.389
902.	0.498	1815.	0.389
902.5	0.496	1815.5	0.388
903.	0.496	1816.	0.387
903.5	0.497	1816.5	0.386
904.	0.497	1817.	0.389
904.5	0.497	1817.5	0.387
905.	0.497	1818.	0.388
905.5	0.497	1818.5	0.388
906.	0.498	1819.	0.387
906.5	0.497	1819.5	0.388
907.	0.498	1820.	0.386
907.5	0.496	1820.5	0.386
908.	0.495	1821.	0.388
908.5	0.496	1821.5	0.388
909.	0.496	1822.	0.388
909.5	0.497	1822.5	0.388
910.	0.495	1823.	0.386
910.5	0.496	1823.5	0.387
911.	0.496	1824.	0.386
911.5	0.497	1824.5	0.388
912.	0.496	1825.	0.387
912.5	0.496	1825.5	0.387
913.	0.496	1826.	0.386
913.5	0.496	1826.5	0.385
914.	0.495	1827.	0.386
914.5	0.496	1827.5	0.386
915.	0.495	1828.	0.386

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.881



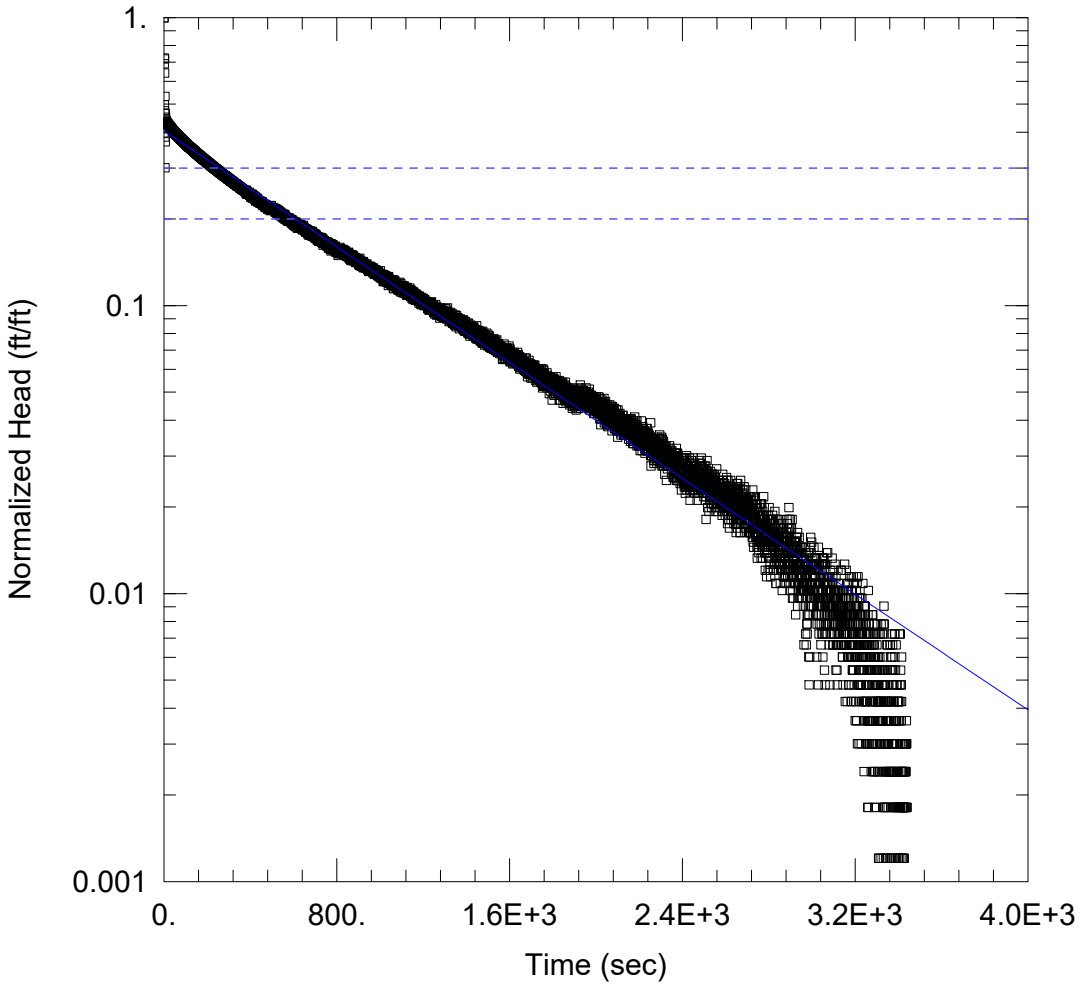
VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	9.598E-6	cm/sec

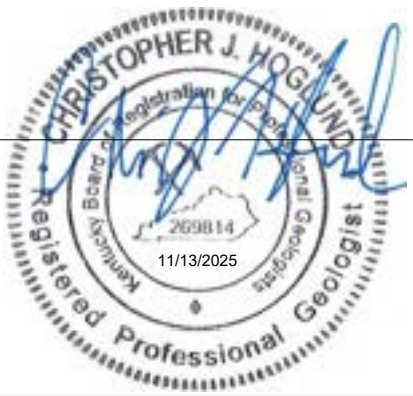
y0	0.7343	ft

T = K*b = 0.003259 cm²/sec



MW-118 FALLING HEAD 01

Data Set: Z:\...\MW-118 Falling Head 01.aqt
Date: 10/07/25 Time: 09:56:31



PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-118
Test Well: MW-118
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 15.84 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-118)

Initial Displacement: 1.66 ft
Total Well Penetration Depth: 15.84 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 15.84 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 2.849E-5 cm/sec
y0 = 0.6709 ft

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-118 Falling Head 01
Date: 10/07/25
Time: 09:56:55

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-118
Test Date: 9/18/25
Test Well: MW-118

AQUIFER DATA

Saturated Thickness: 15.84 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-118

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.66 ft
Static Water Column Height: 15.84 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15.84 ft

No. of Observations: 6881

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.	1720.5	0.098
0.5	1.655	1721.	0.096
1.	0.66	1721.5	0.091
1.5	1.202	1722.	0.098
2.	1.147	1722.5	0.099
2.5	0.826	1723.	0.097
3.	1.191	1723.5	0.1
3.5	0.787	1724.	0.099
4.	1.064	1724.5	0.097
4.5	0.499	1725.	0.098
5.	0.638	1725.5	0.096
5.5	0.884	1726.	0.09
6.	0.615	1726.5	0.098
6.5	0.77	1727.	0.094
7.	0.741	1727.5	0.095
7.5	0.701	1728.	0.091
8.	0.748	1728.5	0.094
8.5	0.719	1729.	0.094
9.	0.724	1729.5	0.094
9.5	0.731	1730.	0.093
10.	0.72	1730.5	0.099
10.5	0.726	1731.	0.096
11.	0.721	1731.5	0.092
11.5	0.721	1732.	0.094
12.	0.721	1732.5	0.096
12.5	0.719	1733.	0.098
13.	0.717	1733.5	0.096
13.5	0.716	1734.	0.093
14.	0.715	1734.5	0.095
14.5	0.717	1735.	0.094
15.	0.714	1735.5	0.099

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.5	0.715	1736.	0.097
16.	0.713	1736.5	0.094
16.5	0.714	1737.	0.095
17.	0.708	1737.5	0.1
17.5	0.71	1738.	0.095
18.	0.708	1738.5	0.096
18.5	0.708	1739.	0.097
19.	0.706	1739.5	0.093
19.5	0.708	1740.	0.092
20.	0.705	1740.5	0.093
20.5	0.705	1741.	0.097
21.	0.704	1741.5	0.098
21.5	0.703	1742.	0.096
22.	0.702	1742.5	0.093
22.5	0.702	1743.	0.094
23.	0.701	1743.5	0.095
23.5	0.701	1744.	0.095
24.	0.699	1744.5	0.093
24.5	0.699	1745.	0.094
25.	0.698	1745.5	0.093
25.5	0.698	1746.	0.097
26.	0.695	1746.5	0.1
26.5	0.696	1747.	0.09
27.	0.694	1747.5	0.09
27.5	0.694	1748.	0.097
28.	0.692	1748.5	0.092
28.5	0.693	1749.	0.09
29.	0.691	1749.5	0.1
29.5	0.69	1750.	0.089
30.	0.689	1750.5	0.096
30.5	0.69	1751.	0.093
31.	0.687	1751.5	0.092
31.5	0.688	1752.	0.097
32.	0.688	1752.5	0.09
32.5	0.687	1753.	0.097
33.	0.685	1753.5	0.091
33.5	0.685	1754.	0.086
34.	0.683	1754.5	0.09
34.5	0.683	1755.	0.092
35.	0.681	1755.5	0.094
35.5	0.68	1756.	0.1
36.	0.681	1756.5	0.095
36.5	0.681	1757.	0.088
37.	0.679	1757.5	0.094
37.5	0.68	1758.	0.087
38.	0.678	1758.5	0.093
38.5	0.679	1759.	0.099
39.	0.676	1759.5	0.093
39.5	0.676	1760.	0.093
40.	0.674	1760.5	0.091
40.5	0.674	1761.	0.097
41.	0.673	1761.5	0.088
41.5	0.674	1762.	0.089
42.	0.672	1762.5	0.088
42.5	0.672	1763.	0.095
43.	0.671	1763.5	0.088
43.5	0.671	1764.	0.087
44.	0.669	1764.5	0.092
44.5	0.67	1765.	0.092
45.	0.668	1765.5	0.093
45.5	0.669	1766.	0.087
46.	0.666	1766.5	0.094
46.5	0.667	1767.	0.092
47.	0.665	1767.5	0.093
47.5	0.666	1768.	0.093
48.	0.663	1768.5	0.09
48.5	0.664	1769.	0.092

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
49.	0.661	1769.5	0.092
49.5	0.662	1770.	0.088
50.	0.659	1770.5	0.092
50.5	0.661	1771.	0.089
51.	0.66	1771.5	0.092
51.5	0.661	1772.	0.088
52.	0.659	1772.5	0.087
52.5	0.658	1773.	0.091
53.	0.658	1773.5	0.087
53.5	0.659	1774.	0.086
54.	0.656	1774.5	0.097
54.5	0.658	1775.	0.091
55.	0.656	1775.5	0.089
55.5	0.656	1776.	0.095
56.	0.654	1776.5	0.092
56.5	0.653	1777.	0.091
57.	0.653	1777.5	0.091
57.5	0.652	1778.	0.088
58.	0.652	1778.5	0.091
58.5	0.653	1779.	0.093
59.	0.652	1779.5	0.089
59.5	0.651	1780.	0.09
60.	0.649	1780.5	0.091
60.5	0.649	1781.	0.091
61.	0.649	1781.5	0.091
61.5	0.648	1782.	0.088
62.	0.646	1782.5	0.093
62.5	0.647	1783.	0.088
63.	0.647	1783.5	0.092
63.5	0.647	1784.	0.094
64.	0.646	1784.5	0.089
64.5	0.646	1785.	0.082
65.	0.644	1785.5	0.092
65.5	0.644	1786.	0.091
66.	0.642	1786.5	0.091
66.5	0.643	1787.	0.088
67.	0.641	1787.5	0.09
67.5	0.642	1788.	0.09
68.	0.641	1788.5	0.088
68.5	0.641	1789.	0.089
69.	0.638	1789.5	0.084
69.5	0.641	1790.	0.091
70.	0.638	1790.5	0.087
70.5	0.639	1791.	0.087
71.	0.636	1791.5	0.087
71.5	0.637	1792.	0.093
72.	0.635	1792.5	0.087
72.5	0.635	1793.	0.088
73.	0.634	1793.5	0.086
73.5	0.634	1794.	0.091
74.	0.634	1794.5	0.089
74.5	0.635	1795.	0.09
75.	0.631	1795.5	0.09
75.5	0.634	1796.	0.086
76.	0.632	1796.5	0.086
76.5	0.631	1797.	0.088
77.	0.631	1797.5	0.078
77.5	0.631	1798.	0.088
78.	0.63	1798.5	0.091
78.5	0.63	1799.	0.088
79.	0.629	1799.5	0.092
79.5	0.629	1800.	0.088
80.	0.627	1800.5	0.092
80.5	0.628	1801.	0.089
81.	0.626	1801.5	0.085
81.5	0.626	1802.	0.087
82.	0.623	1802.5	0.092

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
82.5	0.625	1803.	0.082
83.	0.624	1803.5	0.087
83.5	0.625	1804.	0.093
84.	0.622	1804.5	0.092
84.5	0.623	1805.	0.087
85.	0.621	1805.5	0.091
85.5	0.622	1806.	0.084
86.	0.622	1806.5	0.087
86.5	0.621	1807.	0.081
87.	0.62	1807.5	0.086
87.5	0.62	1808.	0.091
88.	0.618	1808.5	0.092
88.5	0.619	1809.	0.091
89.	0.617	1809.5	0.091
89.5	0.618	1810.	0.091
90.	0.617	1810.5	0.088
90.5	0.618	1811.	0.091
91.	0.615	1811.5	0.089
91.5	0.616	1812.	0.086
92.	0.614	1812.5	0.087
92.5	0.616	1813.	0.086
93.	0.614	1813.5	0.09
93.5	0.614	1814.	0.082
94.	0.613	1814.5	0.091
94.5	0.613	1815.	0.09
95.	0.611	1815.5	0.094
95.5	0.613	1816.	0.088
96.	0.61	1816.5	0.085
96.5	0.611	1817.	0.089
97.	0.609	1817.5	0.089
97.5	0.611	1818.	0.085
98.	0.609	1818.5	0.091
98.5	0.609	1819.	0.087
99.	0.609	1819.5	0.087
99.5	0.608	1820.	0.087
100.	0.607	1820.5	0.089
100.5	0.606	1821.	0.085
101.	0.605	1821.5	0.085
101.5	0.606	1822.	0.085
102.	0.605	1822.5	0.086
102.5	0.605	1823.	0.083
103.	0.604	1823.5	0.087
103.5	0.604	1824.	0.088
104.	0.602	1824.5	0.09
104.5	0.604	1825.	0.083
105.	0.601	1825.5	0.087
105.5	0.603	1826.	0.087
106.	0.6	1826.5	0.09
106.5	0.6	1827.	0.085
107.	0.6	1827.5	0.084
107.5	0.6	1828.	0.087
108.	0.597	1828.5	0.085
108.5	0.599	1829.	0.09
109.	0.598	1829.5	0.088
109.5	0.598	1830.	0.083
110.	0.596	1830.5	0.078
110.5	0.597	1831.	0.089
111.	0.596	1831.5	0.091
111.5	0.596	1832.	0.089
112.	0.595	1832.5	0.087
112.5	0.594	1833.	0.084
113.	0.594	1833.5	0.085
113.5	0.595	1834.	0.078
114.	0.594	1834.5	0.084
114.5	0.594	1835.	0.087
115.	0.591	1835.5	0.086
115.5	0.591	1836.	0.082

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
116.	0.59	1836.5	0.087
116.5	0.592	1837.	0.083
117.	0.589	1837.5	0.089
117.5	0.59	1838.	0.081
118.	0.59	1838.5	0.085
118.5	0.589	1839.	0.085
119.	0.587	1839.5	0.085
119.5	0.588	1840.	0.089
120.	0.586	1840.5	0.083
120.5	0.588	1841.	0.083
121.	0.586	1841.5	0.085
121.5	0.587	1842.	0.083
122.	0.585	1842.5	0.089
122.5	0.586	1843.	0.081
123.	0.584	1843.5	0.082
123.5	0.586	1844.	0.083
124.	0.584	1844.5	0.084
124.5	0.584	1845.	0.087
125.	0.583	1845.5	0.086
125.5	0.583	1846.	0.09
126.	0.582	1846.5	0.086
126.5	0.583	1847.	0.088
127.	0.581	1847.5	0.081
127.5	0.581	1848.	0.076
128.	0.58	1848.5	0.086
128.5	0.58	1849.	0.085
129.	0.58	1849.5	0.084
129.5	0.579	1850.	0.08
130.	0.579	1850.5	0.082
130.5	0.579	1851.	0.086
131.	0.578	1851.5	0.085
131.5	0.579	1852.	0.08
132.	0.578	1852.5	0.084
132.5	0.577	1853.	0.086
133.	0.577	1853.5	0.083
133.5	0.576	1854.	0.08
134.	0.576	1854.5	0.086
134.5	0.576	1855.	0.081
135.	0.575	1855.5	0.085
135.5	0.575	1856.	0.078
136.	0.573	1856.5	0.08
136.5	0.574	1857.	0.078
137.	0.572	1857.5	0.088
137.5	0.572	1858.	0.09
138.	0.572	1858.5	0.083
138.5	0.572	1859.	0.083
139.	0.571	1859.5	0.079
139.5	0.57	1860.	0.077
140.	0.57	1860.5	0.08
140.5	0.57	1861.	0.087
141.	0.569	1861.5	0.079
141.5	0.57	1862.	0.083
142.	0.568	1862.5	0.084
142.5	0.57	1863.	0.08
143.	0.567	1863.5	0.078
143.5	0.567	1864.	0.083
144.	0.565	1864.5	0.081
144.5	0.567	1865.	0.078
145.	0.566	1865.5	0.084
145.5	0.567	1866.	0.084
146.	0.564	1866.5	0.082
146.5	0.565	1867.	0.08
147.	0.564	1867.5	0.084
147.5	0.564	1868.	0.084
148.	0.564	1868.5	0.08
148.5	0.562	1869.	0.081
149.	0.563	1869.5	0.086

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
149.5	0.562	1870.	0.082
150.	0.561	1870.5	0.082
150.5	0.56	1871.	0.083
151.	0.559	1871.5	0.082
151.5	0.562	1872.	0.084
152.	0.561	1872.5	0.084
152.5	0.559	1873.	0.079
153.	0.559	1873.5	0.078
153.5	0.559	1874.	0.082
154.	0.558	1874.5	0.08
154.5	0.558	1875.	0.081
155.	0.556	1875.5	0.077
155.5	0.558	1876.	0.08
156.	0.557	1876.5	0.083
156.5	0.558	1877.	0.078
157.	0.556	1877.5	0.078
157.5	0.556	1878.	0.079
158.	0.555	1878.5	0.078
158.5	0.554	1879.	0.075
159.	0.553	1879.5	0.078
159.5	0.554	1880.	0.08
160.	0.553	1880.5	0.085
160.5	0.554	1881.	0.082
161.	0.552	1881.5	0.079
161.5	0.553	1882.	0.077
162.	0.55	1882.5	0.079
162.5	0.551	1883.	0.085
163.	0.549	1883.5	0.084
163.5	0.55	1884.	0.077
164.	0.549	1884.5	0.076
164.5	0.552	1885.	0.085
165.	0.549	1885.5	0.081
165.5	0.55	1886.	0.076
166.	0.548	1886.5	0.08
166.5	0.549	1887.	0.078
167.	0.549	1887.5	0.078
167.5	0.548	1888.	0.08
168.	0.545	1888.5	0.077
168.5	0.546	1889.	0.078
169.	0.546	1889.5	0.083
169.5	0.546	1890.	0.078
170.	0.546	1890.5	0.076
170.5	0.545	1891.	0.073
171.	0.542	1891.5	0.081
171.5	0.544	1892.	0.074
172.	0.543	1892.5	0.075
172.5	0.544	1893.	0.08
173.	0.542	1893.5	0.084
173.5	0.543	1894.	0.078
174.	0.54	1894.5	0.08
174.5	0.542	1895.	0.081
175.	0.541	1895.5	0.086
175.5	0.541	1896.	0.083
176.	0.539	1896.5	0.079
176.5	0.541	1897.	0.078
177.	0.54	1897.5	0.081
177.5	0.538	1898.	0.081
178.	0.538	1898.5	0.078
178.5	0.538	1899.	0.078
179.	0.536	1899.5	0.079
179.5	0.539	1900.	0.079
180.	0.536	1900.5	0.083
180.5	0.538	1901.	0.074
181.	0.537	1901.5	0.076
181.5	0.537	1902.	0.074
182.	0.536	1902.5	0.08
182.5	0.536	1903.	0.077

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
183.	0.534	1903.5	0.083
183.5	0.535	1904.	0.077
184.	0.535	1904.5	0.076
184.5	0.536	1905.	0.081
185.	0.533	1905.5	0.076
185.5	0.534	1906.	0.077
186.	0.532	1906.5	0.08
186.5	0.534	1907.	0.079
187.	0.531	1907.5	0.076
187.5	0.532	1908.	0.078
188.	0.532	1908.5	0.077
188.5	0.532	1909.	0.072
189.	0.53	1909.5	0.078
189.5	0.532	1910.	0.075
190.	0.53	1910.5	0.078
190.5	0.53	1911.	0.073
191.	0.529	1911.5	0.077
191.5	0.528	1912.	0.078
192.	0.529	1912.5	0.08
192.5	0.528	1913.	0.08
193.	0.528	1913.5	0.08
193.5	0.529	1914.	0.077
194.	0.525	1914.5	0.078
194.5	0.528	1915.	0.078
195.	0.526	1915.5	0.076
195.5	0.526	1916.	0.077
196.	0.524	1916.5	0.078
196.5	0.525	1917.	0.074
197.	0.523	1917.5	0.073
197.5	0.525	1918.	0.075
198.	0.523	1918.5	0.08
198.5	0.523	1919.	0.079
199.	0.523	1919.5	0.083
199.5	0.524	1920.	0.073
200.	0.522	1920.5	0.074
200.5	0.522	1921.	0.077
201.	0.521	1921.5	0.078
201.5	0.523	1922.	0.077
202.	0.521	1922.5	0.075
202.5	0.521	1923.	0.082
203.	0.519	1923.5	0.084
203.5	0.521	1924.	0.083
204.	0.519	1924.5	0.082
204.5	0.52	1925.	0.084
205.	0.519	1925.5	0.083
205.5	0.518	1926.	0.082
206.	0.519	1926.5	0.085
206.5	0.519	1927.	0.078
207.	0.516	1927.5	0.083
207.5	0.517	1928.	0.076
208.	0.517	1928.5	0.088
208.5	0.517	1929.	0.081
209.	0.516	1929.5	0.08
209.5	0.517	1930.	0.086
210.	0.515	1930.5	0.084
210.5	0.515	1931.	0.085
211.	0.514	1931.5	0.082
211.5	0.515	1932.	0.08
212.	0.513	1932.5	0.081
212.5	0.515	1933.	0.083
213.	0.512	1933.5	0.083
213.5	0.513	1934.	0.077
214.	0.511	1934.5	0.081
214.5	0.512	1935.	0.083
215.	0.511	1935.5	0.081
215.5	0.513	1936.	0.076
216.	0.509	1936.5	0.081

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
216.5	0.511	1937.	0.082
217.	0.509	1937.5	0.081
217.5	0.509	1938.	0.077
218.	0.51	1938.5	0.082
218.5	0.51	1939.	0.078
219.	0.508	1939.5	0.079
219.5	0.509	1940.	0.084
220.	0.507	1940.5	0.079
220.5	0.508	1941.	0.075
221.	0.507	1941.5	0.078
221.5	0.507	1942.	0.082
222.	0.507	1942.5	0.082
222.5	0.506	1943.	0.081
223.	0.505	1943.5	0.084
223.5	0.505	1944.	0.084
224.	0.504	1944.5	0.082
224.5	0.505	1945.	0.075
225.	0.505	1945.5	0.082
225.5	0.505	1946.	0.08
226.	0.503	1946.5	0.081
226.5	0.505	1947.	0.078
227.	0.502	1947.5	0.083
227.5	0.503	1948.	0.075
228.	0.502	1948.5	0.08
228.5	0.504	1949.	0.08
229.	0.501	1949.5	0.078
229.5	0.504	1950.	0.08
230.	0.501	1950.5	0.08
230.5	0.502	1951.	0.079
231.	0.5	1951.5	0.076
231.5	0.502	1952.	0.08
232.	0.499	1952.5	0.081
232.5	0.5	1953.	0.083
233.	0.497	1953.5	0.08
233.5	0.5	1954.	0.078
234.	0.499	1954.5	0.086
234.5	0.498	1955.	0.081
235.	0.496	1955.5	0.077
235.5	0.498	1956.	0.083
236.	0.497	1956.5	0.08
236.5	0.497	1957.	0.077
237.	0.496	1957.5	0.077
237.5	0.496	1958.	0.078
238.	0.496	1958.5	0.074
238.5	0.496	1959.	0.081
239.	0.495	1959.5	0.076
239.5	0.496	1960.	0.076
240.	0.494	1960.5	0.077
240.5	0.494	1961.	0.077
241.	0.493	1961.5	0.077
241.5	0.494	1962.	0.08
242.	0.493	1962.5	0.082
242.5	0.493	1963.	0.079
243.	0.492	1963.5	0.082
243.5	0.493	1964.	0.076
244.	0.493	1964.5	0.083
244.5	0.491	1965.	0.081
245.	0.491	1965.5	0.077
245.5	0.489	1966.	0.08
246.	0.49	1966.5	0.08
246.5	0.489	1967.	0.073
247.	0.489	1967.5	0.078
247.5	0.49	1968.	0.08
248.	0.49	1968.5	0.081
248.5	0.489	1969.	0.08
249.	0.488	1969.5	0.085
249.5	0.488	1970.	0.079

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
250.	0.487	1970.5	0.078
250.5	0.487	1971.	0.072
251.	0.487	1971.5	0.078
251.5	0.488	1972.	0.075
252.	0.487	1972.5	0.074
252.5	0.486	1973.	0.074
253.	0.485	1973.5	0.077
253.5	0.487	1974.	0.08
254.	0.484	1974.5	0.081
254.5	0.485	1975.	0.073
255.	0.485	1975.5	0.079
255.5	0.484	1976.	0.076
256.	0.482	1976.5	0.078
256.5	0.484	1977.	0.076
257.	0.482	1977.5	0.076
257.5	0.484	1978.	0.079
258.	0.481	1978.5	0.077
258.5	0.483	1979.	0.079
259.	0.48	1979.5	0.073
259.5	0.482	1980.	0.076
260.	0.48	1980.5	0.081
260.5	0.482	1981.	0.073
261.	0.479	1981.5	0.08
261.5	0.481	1982.	0.08
262.	0.479	1982.5	0.073
262.5	0.48	1983.	0.077
263.	0.478	1983.5	0.077
263.5	0.481	1984.	0.08
264.	0.478	1984.5	0.075
264.5	0.48	1985.	0.075
265.	0.477	1985.5	0.077
265.5	0.478	1986.	0.073
266.	0.477	1986.5	0.08
266.5	0.477	1987.	0.076
267.	0.475	1987.5	0.078
267.5	0.478	1988.	0.075
268.	0.475	1988.5	0.076
268.5	0.476	1989.	0.074
269.	0.475	1989.5	0.079
269.5	0.476	1990.	0.073
270.	0.474	1990.5	0.07
270.5	0.475	1991.	0.072
271.	0.474	1991.5	0.08
271.5	0.474	1992.	0.075
272.	0.472	1992.5	0.072
272.5	0.473	1993.	0.073
273.	0.472	1993.5	0.075
273.5	0.473	1994.	0.071
274.	0.473	1994.5	0.079
274.5	0.472	1995.	0.074
275.	0.47	1995.5	0.074
275.5	0.472	1996.	0.072
276.	0.471	1996.5	0.079
276.5	0.472	1997.	0.073
277.	0.47	1997.5	0.077
277.5	0.47	1998.	0.075
278.	0.47	1998.5	0.075
278.5	0.469	1999.	0.072
279.	0.469	1999.5	0.078
279.5	0.47	2000.	0.078
280.	0.468	2000.5	0.074
280.5	0.468	2001.	0.073
281.	0.468	2001.5	0.075
281.5	0.468	2002.	0.08
282.	0.467	2002.5	0.073
282.5	0.468	2003.	0.072
283.	0.467	2003.5	0.078

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
283.5	0.468	2004.	0.071
284.	0.467	2004.5	0.077
284.5	0.467	2005.	0.076
285.	0.464	2005.5	0.074
285.5	0.465	2006.	0.073
286.	0.465	2006.5	0.076
286.5	0.465	2007.	0.075
287.	0.464	2007.5	0.077
287.5	0.465	2008.	0.075
288.	0.463	2008.5	0.074
288.5	0.465	2009.	0.076
289.	0.463	2009.5	0.07
289.5	0.463	2010.	0.07
290.	0.462	2010.5	0.073
290.5	0.462	2011.	0.071
291.	0.462	2011.5	0.071
291.5	0.463	2012.	0.075
292.	0.462	2012.5	0.071
292.5	0.462	2013.	0.077
293.	0.459	2013.5	0.075
293.5	0.461	2014.	0.074
294.	0.459	2014.5	0.08
294.5	0.462	2015.	0.072
295.	0.459	2015.5	0.075
295.5	0.46	2016.	0.074
296.	0.459	2016.5	0.079
296.5	0.46	2017.	0.075
297.	0.458	2017.5	0.075
297.5	0.457	2018.	0.074
298.	0.456	2018.5	0.079
298.5	0.457	2019.	0.067
299.	0.457	2019.5	0.073
299.5	0.456	2020.	0.07
300.	0.455	2020.5	0.071
300.5	0.457	2021.	0.077
301.	0.455	2021.5	0.071
301.5	0.456	2022.	0.07
302.	0.455	2022.5	0.076
302.5	0.456	2023.	0.064
303.	0.455	2023.5	0.07
303.5	0.454	2024.	0.071
304.	0.452	2024.5	0.074
304.5	0.455	2025.	0.067
305.	0.453	2025.5	0.07
305.5	0.453	2026.	0.073
306.	0.453	2026.5	0.07
306.5	0.453	2027.	0.076
307.	0.452	2027.5	0.074
307.5	0.452	2028.	0.075
308.	0.451	2028.5	0.074
308.5	0.452	2029.	0.071
309.	0.449	2029.5	0.078
309.5	0.453	2030.	0.076
310.	0.45	2030.5	0.075
310.5	0.451	2031.	0.072
311.	0.449	2031.5	0.072
311.5	0.45	2032.	0.068
312.	0.449	2032.5	0.074
312.5	0.449	2033.	0.074
313.	0.448	2033.5	0.072
313.5	0.449	2034.	0.069
314.	0.448	2034.5	0.073
314.5	0.45	2035.	0.071
315.	0.447	2035.5	0.072
315.5	0.447	2036.	0.069
316.	0.447	2036.5	0.075
316.5	0.448	2037.	0.071

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
317.	0.447	2037.5	0.071
317.5	0.447	2038.	0.076
318.	0.444	2038.5	0.079
318.5	0.446	2039.	0.065
319.	0.445	2039.5	0.071
319.5	0.445	2040.	0.072
320.	0.444	2040.5	0.076
320.5	0.446	2041.	0.071
321.	0.444	2041.5	0.075
321.5	0.444	2042.	0.069
322.	0.443	2042.5	0.068
322.5	0.445	2043.	0.074
323.	0.442	2043.5	0.067
323.5	0.443	2044.	0.066
324.	0.441	2044.5	0.069
324.5	0.442	2045.	0.077
325.	0.442	2045.5	0.073
325.5	0.443	2046.	0.068
326.	0.441	2046.5	0.068
326.5	0.44	2047.	0.072
327.	0.439	2047.5	0.07
327.5	0.441	2048.	0.07
328.	0.439	2048.5	0.071
328.5	0.441	2049.	0.064
329.	0.439	2049.5	0.073
329.5	0.438	2050.	0.065
330.	0.439	2050.5	0.066
330.5	0.439	2051.	0.072
331.	0.438	2051.5	0.071
331.5	0.438	2052.	0.064
332.	0.438	2052.5	0.075
332.5	0.439	2053.	0.072
333.	0.436	2053.5	0.065
333.5	0.437	2054.	0.065
334.	0.437	2054.5	0.067
334.5	0.437	2055.	0.071
335.	0.435	2055.5	0.07
335.5	0.438	2056.	0.063
336.	0.437	2056.5	0.071
336.5	0.436	2057.	0.069
337.	0.433	2057.5	0.068
337.5	0.435	2058.	0.07
338.	0.434	2058.5	0.071
338.5	0.434	2059.	0.067
339.	0.433	2059.5	0.069
339.5	0.435	2060.	0.067
340.	0.434	2060.5	0.073
340.5	0.434	2061.	0.069
341.	0.432	2061.5	0.07
341.5	0.432	2062.	0.064
342.	0.432	2062.5	0.073
342.5	0.431	2063.	0.069
343.	0.432	2063.5	0.064
343.5	0.432	2064.	0.075
344.	0.43	2064.5	0.069
344.5	0.432	2065.	0.071
345.	0.43	2065.5	0.068
345.5	0.431	2066.	0.069
346.	0.43	2066.5	0.072
346.5	0.431	2067.	0.068
347.	0.429	2067.5	0.071
347.5	0.43	2068.	0.065
348.	0.429	2068.5	0.072
348.5	0.429	2069.	0.064
349.	0.428	2069.5	0.066
349.5	0.429	2070.	0.071
350.	0.428	2070.5	0.069

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
350.5	0.428	2071.	0.067
351.	0.427	2071.5	0.074
351.5	0.428	2072.	0.071
352.	0.425	2072.5	0.065
352.5	0.427	2073.	0.071
353.	0.425	2073.5	0.067
353.5	0.427	2074.	0.068
354.	0.426	2074.5	0.068
354.5	0.426	2075.	0.061
355.	0.425	2075.5	0.068
355.5	0.426	2076.	0.07
356.	0.424	2076.5	0.074
356.5	0.425	2077.	0.07
357.	0.424	2077.5	0.068
357.5	0.424	2078.	0.069
358.	0.423	2078.5	0.071
358.5	0.425	2079.	0.068
359.	0.423	2079.5	0.073
359.5	0.423	2080.	0.069
360.	0.422	2080.5	0.073
360.5	0.422	2081.	0.072
361.	0.421	2081.5	0.069
361.5	0.421	2082.	0.068
362.	0.422	2082.5	0.071
362.5	0.421	2083.	0.066
363.	0.421	2083.5	0.07
363.5	0.422	2084.	0.066
364.	0.419	2084.5	0.073
364.5	0.421	2085.	0.067
365.	0.419	2085.5	0.07
365.5	0.42	2086.	0.062
366.	0.419	2086.5	0.068
366.5	0.42	2087.	0.065
367.	0.418	2087.5	0.069
367.5	0.419	2088.	0.062
368.	0.418	2088.5	0.063
368.5	0.419	2089.	0.068
369.	0.418	2089.5	0.07
369.5	0.418	2090.	0.062
370.	0.417	2090.5	0.069
370.5	0.418	2091.	0.064
371.	0.417	2091.5	0.067
371.5	0.416	2092.	0.066
372.	0.415	2092.5	0.066
372.5	0.417	2093.	0.066
373.	0.415	2093.5	0.068
373.5	0.416	2094.	0.068
374.	0.415	2094.5	0.066
374.5	0.415	2095.	0.065
375.	0.413	2095.5	0.072
375.5	0.414	2096.	0.066
376.	0.414	2096.5	0.07
376.5	0.414	2097.	0.067
377.	0.414	2097.5	0.061
377.5	0.414	2098.	0.062
378.	0.412	2098.5	0.065
378.5	0.414	2099.	0.061
379.	0.413	2099.5	0.066
379.5	0.413	2100.	0.065
380.	0.407	2100.5	0.066
380.5	0.412	2101.	0.068
381.	0.417	2101.5	0.058
381.5	0.41	2102.	0.063
382.	0.412	2102.5	0.07
382.5	0.413	2103.	0.072
383.	0.406	2103.5	0.068
383.5	0.413	2104.	0.069

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
384.	0.409	2104.5	0.062
384.5	0.404	2105.	0.063
385.	0.414	2105.5	0.067
385.5	0.411	2106.	0.063
386.	0.409	2106.5	0.065
386.5	0.411	2107.	0.065
387.	0.409	2107.5	0.067
387.5	0.41	2108.	0.063
388.	0.409	2108.5	0.069
388.5	0.408	2109.	0.064
389.	0.406	2109.5	0.064
389.5	0.409	2110.	0.068
390.	0.404	2110.5	0.066
390.5	0.407	2111.	0.065
391.	0.41	2111.5	0.068
391.5	0.409	2112.	0.061
392.	0.404	2112.5	0.07
392.5	0.407	2113.	0.062
393.	0.406	2113.5	0.068
393.5	0.404	2114.	0.066
394.	0.406	2114.5	0.062
394.5	0.404	2115.	0.06
395.	0.407	2115.5	0.067
395.5	0.404	2116.	0.064
396.	0.41	2116.5	0.066
396.5	0.402	2117.	0.059
397.	0.407	2117.5	0.064
397.5	0.403	2118.	0.063
398.	0.404	2118.5	0.065
398.5	0.401	2119.	0.063
399.	0.402	2119.5	0.064
399.5	0.404	2120.	0.063
400.	0.4	2120.5	0.065
400.5	0.401	2121.	0.067
401.	0.4	2121.5	0.062
401.5	0.402	2122.	0.063
402.	0.403	2122.5	0.061
402.5	0.402	2123.	0.065
403.	0.394	2123.5	0.065
403.5	0.4	2124.	0.069
404.	0.397	2124.5	0.067
404.5	0.402	2125.	0.063
405.	0.396	2125.5	0.063
405.5	0.398	2126.	0.069
406.	0.399	2126.5	0.062
406.5	0.396	2127.	0.062
407.	0.395	2127.5	0.063
407.5	0.405	2128.	0.061
408.	0.394	2128.5	0.063
408.5	0.398	2129.	0.059
409.	0.396	2129.5	0.059
409.5	0.396	2130.	0.062
410.	0.399	2130.5	0.065
410.5	0.402	2131.	0.062
411.	0.393	2131.5	0.067
411.5	0.4	2132.	0.059
412.	0.393	2132.5	0.065
412.5	0.398	2133.	0.06
413.	0.396	2133.5	0.063
413.5	0.396	2134.	0.066
414.	0.395	2134.5	0.064
414.5	0.393	2135.	0.062
415.	0.395	2135.5	0.063
415.5	0.392	2136.	0.059
416.	0.395	2136.5	0.067
416.5	0.391	2137.	0.061
417.	0.394	2137.5	0.066

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
417.5	0.4	2138.	0.065
418.	0.394	2138.5	0.062
418.5	0.393	2139.	0.065
419.	0.395	2139.5	0.063
419.5	0.391	2140.	0.062
420.	0.393	2140.5	0.064
420.5	0.39	2141.	0.061
421.	0.392	2141.5	0.06
421.5	0.39	2142.	0.061
422.	0.39	2142.5	0.062
422.5	0.391	2143.	0.062
423.	0.391	2143.5	0.066
423.5	0.39	2144.	0.061
424.	0.388	2144.5	0.066
424.5	0.396	2145.	0.066
425.	0.383	2145.5	0.062
425.5	0.391	2146.	0.064
426.	0.387	2146.5	0.061
426.5	0.389	2147.	0.059
427.	0.388	2147.5	0.061
427.5	0.387	2148.	0.064
428.	0.389	2148.5	0.063
428.5	0.388	2149.	0.067
429.	0.391	2149.5	0.061
429.5	0.389	2150.	0.064
430.	0.386	2150.5	0.059
430.5	0.387	2151.	0.061
431.	0.386	2151.5	0.062
431.5	0.392	2152.	0.062
432.	0.389	2152.5	0.057
432.5	0.385	2153.	0.062
433.	0.384	2153.5	0.065
433.5	0.385	2154.	0.063
434.	0.388	2154.5	0.06
434.5	0.389	2155.	0.065
435.	0.383	2155.5	0.061
435.5	0.385	2156.	0.064
436.	0.386	2156.5	0.06
436.5	0.379	2157.	0.063
437.	0.383	2157.5	0.062
437.5	0.384	2158.	0.067
438.	0.384	2158.5	0.063
438.5	0.382	2159.	0.062
439.	0.383	2159.5	0.061
439.5	0.382	2160.	0.067
440.	0.382	2160.5	0.06
440.5	0.38	2161.	0.056
441.	0.381	2161.5	0.059
441.5	0.382	2162.	0.061
442.	0.38	2162.5	0.057
442.5	0.381	2163.	0.067
443.	0.377	2163.5	0.064
443.5	0.382	2164.	0.062
444.	0.378	2164.5	0.066
444.5	0.381	2165.	0.061
445.	0.383	2165.5	0.06
445.5	0.382	2166.	0.061
446.	0.376	2166.5	0.064
446.5	0.38	2167.	0.064
447.	0.378	2167.5	0.06
447.5	0.382	2168.	0.06
448.	0.378	2168.5	0.065
448.5	0.381	2169.	0.062
449.	0.381	2169.5	0.061
449.5	0.378	2170.	0.061
450.	0.378	2170.5	0.055
450.5	0.378	2171.	0.056

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
451.	0.375	2171.5	0.06
451.5	0.379	2172.	0.057
452.	0.376	2172.5	0.057
452.5	0.378	2173.	0.06
453.	0.378	2173.5	0.061
453.5	0.38	2174.	0.063
454.	0.381	2174.5	0.061
454.5	0.378	2175.	0.055
455.	0.372	2175.5	0.06
455.5	0.375	2176.	0.065
456.	0.38	2176.5	0.061
456.5	0.372	2177.	0.057
457.	0.375	2177.5	0.06
457.5	0.372	2178.	0.058
458.	0.369	2178.5	0.061
458.5	0.372	2179.	0.059
459.	0.376	2179.5	0.068
459.5	0.375	2180.	0.061
460.	0.373	2180.5	0.06
460.5	0.374	2181.	0.056
461.	0.37	2181.5	0.061
461.5	0.375	2182.	0.058
462.	0.373	2182.5	0.058
462.5	0.369	2183.	0.059
463.	0.373	2183.5	0.062
463.5	0.371	2184.	0.058
464.	0.371	2184.5	0.066
464.5	0.37	2185.	0.064
465.	0.373	2185.5	0.063
465.5	0.372	2186.	0.059
466.	0.369	2186.5	0.06
466.5	0.372	2187.	0.064
467.	0.368	2187.5	0.058
467.5	0.367	2188.	0.056
468.	0.369	2188.5	0.061
468.5	0.367	2189.	0.062
469.	0.369	2189.5	0.059
469.5	0.364	2190.	0.066
470.	0.369	2190.5	0.062
470.5	0.368	2191.	0.054
471.	0.37	2191.5	0.06
471.5	0.372	2192.	0.057
472.	0.37	2192.5	0.061
472.5	0.367	2193.	0.058
473.	0.368	2193.5	0.063
473.5	0.367	2194.	0.056
474.	0.367	2194.5	0.06
474.5	0.369	2195.	0.06
475.	0.369	2195.5	0.055
475.5	0.368	2196.	0.057
476.	0.367	2196.5	0.062
476.5	0.368	2197.	0.06
477.	0.368	2197.5	0.057
477.5	0.366	2198.	0.054
478.	0.365	2198.5	0.061
478.5	0.365	2199.	0.06
479.	0.359	2199.5	0.06
479.5	0.367	2200.	0.055
480.	0.361	2200.5	0.059
480.5	0.363	2201.	0.055
481.	0.363	2201.5	0.056
481.5	0.366	2202.	0.06
482.	0.362	2202.5	0.056
482.5	0.366	2203.	0.058
483.	0.363	2203.5	0.059
483.5	0.364	2204.	0.058
484.	0.364	2204.5	0.056

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
484.5	0.366	2205.	0.054
485.	0.363	2205.5	0.052
485.5	0.36	2206.	0.056
486.	0.363	2206.5	0.061
486.5	0.363	2207.	0.055
487.	0.357	2207.5	0.058
487.5	0.359	2208.	0.056
488.	0.36	2208.5	0.057
488.5	0.36	2209.	0.055
489.	0.36	2209.5	0.056
489.5	0.361	2210.	0.056
490.	0.36	2210.5	0.066
490.5	0.362	2211.	0.06
491.	0.36	2211.5	0.062
491.5	0.36	2212.	0.059
492.	0.361	2212.5	0.063
492.5	0.356	2213.	0.063
493.	0.359	2213.5	0.061
493.5	0.354	2214.	0.052
494.	0.361	2214.5	0.06
494.5	0.356	2215.	0.061
495.	0.358	2215.5	0.056
495.5	0.363	2216.	0.058
496.	0.364	2216.5	0.063
496.5	0.369	2217.	0.061
497.	0.364	2217.5	0.059
497.5	0.363	2218.	0.056
498.	0.362	2218.5	0.061
498.5	0.361	2219.	0.055
499.	0.368	2219.5	0.06
499.5	0.361	2220.	0.062
500.	0.362	2220.5	0.061
500.5	0.364	2221.	0.057
501.	0.358	2221.5	0.057
501.5	0.357	2222.	0.058
502.	0.361	2222.5	0.055
502.5	0.357	2223.	0.059
503.	0.363	2223.5	0.055
503.5	0.358	2224.	0.061
504.	0.358	2224.5	0.061
504.5	0.361	2225.	0.055
505.	0.362	2225.5	0.061
505.5	0.357	2226.	0.06
506.	0.362	2226.5	0.053
506.5	0.358	2227.	0.051
507.	0.359	2227.5	0.058
507.5	0.36	2228.	0.057
508.	0.357	2228.5	0.057
508.5	0.357	2229.	0.056
509.	0.358	2229.5	0.06
509.5	0.357	2230.	0.059
510.	0.356	2230.5	0.055
510.5	0.359	2231.	0.057
511.	0.361	2231.5	0.052
511.5	0.358	2232.	0.054
512.	0.357	2232.5	0.054
512.5	0.361	2233.	0.053
513.	0.361	2233.5	0.06
513.5	0.355	2234.	0.057
514.	0.357	2234.5	0.062
514.5	0.353	2235.	0.057
515.	0.351	2235.5	0.056
515.5	0.357	2236.	0.052
516.	0.351	2236.5	0.056
516.5	0.36	2237.	0.058
517.	0.359	2237.5	0.052
517.5	0.355	2238.	0.052

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
518.	0.353	2238.5	0.062
518.5	0.358	2239.	0.054
519.	0.355	2239.5	0.059
519.5	0.358	2240.	0.054
520.	0.349	2240.5	0.054
520.5	0.355	2241.	0.053
521.	0.351	2241.5	0.057
521.5	0.354	2242.	0.059
522.	0.351	2242.5	0.06
522.5	0.355	2243.	0.057
523.	0.352	2243.5	0.052
523.5	0.355	2244.	0.053
524.	0.347	2244.5	0.057
524.5	0.358	2245.	0.059
525.	0.35	2245.5	0.056
525.5	0.346	2246.	0.056
526.	0.35	2246.5	0.054
526.5	0.349	2247.	0.059
527.	0.348	2247.5	0.054
527.5	0.349	2248.	0.054
528.	0.352	2248.5	0.057
528.5	0.35	2249.	0.057
529.	0.348	2249.5	0.056
529.5	0.351	2250.	0.056
530.	0.347	2250.5	0.055
530.5	0.351	2251.	0.056
531.	0.348	2251.5	0.055
531.5	0.347	2252.	0.057
532.	0.351	2252.5	0.056
532.5	0.347	2253.	0.058
533.	0.354	2253.5	0.05
533.5	0.35	2254.	0.054
534.	0.343	2254.5	0.065
534.5	0.348	2255.	0.053
535.	0.346	2255.5	0.046
535.5	0.342	2256.	0.055
536.	0.343	2256.5	0.054
536.5	0.349	2257.	0.057
537.	0.344	2257.5	0.052
537.5	0.35	2258.	0.054
538.	0.343	2258.5	0.053
538.5	0.345	2259.	0.05
539.	0.34	2259.5	0.056
539.5	0.345	2260.	0.052
540.	0.349	2260.5	0.055
540.5	0.348	2261.	0.056
541.	0.345	2261.5	0.055
541.5	0.343	2262.	0.056
542.	0.35	2262.5	0.056
542.5	0.345	2263.	0.052
543.	0.343	2263.5	0.057
543.5	0.345	2264.	0.051
544.	0.344	2264.5	0.057
544.5	0.344	2265.	0.051
545.	0.34	2265.5	0.057
545.5	0.342	2266.	0.051
546.	0.344	2266.5	0.052
546.5	0.342	2267.	0.053
547.	0.341	2267.5	0.051
547.5	0.343	2268.	0.05
548.	0.34	2268.5	0.048
548.5	0.346	2269.	0.054
549.	0.338	2269.5	0.047
549.5	0.338	2270.	0.056
550.	0.339	2270.5	0.053
550.5	0.34	2271.	0.048
551.	0.338	2271.5	0.055

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
551.5	0.337	2272.	0.049
552.	0.338	2272.5	0.057
552.5	0.345	2273.	0.05
553.	0.339	2273.5	0.055
553.5	0.344	2274.	0.053
554.	0.334	2274.5	0.054
554.5	0.342	2275.	0.053
555.	0.342	2275.5	0.057
555.5	0.335	2276.	0.053
556.	0.342	2276.5	0.055
556.5	0.337	2277.	0.05
557.	0.341	2277.5	0.051
557.5	0.337	2278.	0.051
558.	0.336	2278.5	0.052
558.5	0.336	2279.	0.053
559.	0.339	2279.5	0.055
559.5	0.342	2280.	0.053
560.	0.344	2280.5	0.048
560.5	0.334	2281.	0.056
561.	0.331	2281.5	0.047
561.5	0.334	2282.	0.053
562.	0.334	2282.5	0.053
562.5	0.336	2283.	0.05
563.	0.337	2283.5	0.055
563.5	0.337	2284.	0.053
564.	0.333	2284.5	0.053
564.5	0.335	2285.	0.051
565.	0.337	2285.5	0.05
565.5	0.333	2286.	0.055
566.	0.335	2286.5	0.058
566.5	0.329	2287.	0.048
567.	0.335	2287.5	0.052
567.5	0.334	2288.	0.049
568.	0.335	2288.5	0.055
568.5	0.335	2289.	0.051
569.	0.334	2289.5	0.055
569.5	0.334	2290.	0.049
570.	0.336	2290.5	0.051
570.5	0.331	2291.	0.049
571.	0.329	2291.5	0.052
571.5	0.331	2292.	0.051
572.	0.332	2292.5	0.057
572.5	0.331	2293.	0.054
573.	0.332	2293.5	0.052
573.5	0.326	2294.	0.054
574.	0.331	2294.5	0.057
574.5	0.33	2295.	0.05
575.	0.329	2295.5	0.059
575.5	0.331	2296.	0.053
576.	0.329	2296.5	0.049
576.5	0.331	2297.	0.048
577.	0.333	2297.5	0.055
577.5	0.326	2298.	0.047
578.	0.328	2298.5	0.053
578.5	0.33	2299.	0.051
579.	0.326	2299.5	0.048
579.5	0.331	2300.	0.053
580.	0.329	2300.5	0.053
580.5	0.334	2301.	0.049
581.	0.33	2301.5	0.057
581.5	0.331	2302.	0.05
582.	0.332	2302.5	0.054
582.5	0.325	2303.	0.047
583.	0.333	2303.5	0.048
583.5	0.326	2304.	0.052
584.	0.33	2304.5	0.058
584.5	0.327	2305.	0.052

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
585.	0.329	2305.5	0.051
585.5	0.327	2306.	0.046
586.	0.326	2306.5	0.055
586.5	0.329	2307.	0.05
587.	0.326	2307.5	0.057
587.5	0.325	2308.	0.052
588.	0.327	2308.5	0.049
588.5	0.326	2309.	0.051
589.	0.323	2309.5	0.048
589.5	0.328	2310.	0.054
590.	0.328	2310.5	0.056
590.5	0.327	2311.	0.051
591.	0.322	2311.5	0.049
591.5	0.326	2312.	0.046
592.	0.322	2312.5	0.049
592.5	0.33	2313.	0.049
593.	0.326	2313.5	0.056
593.5	0.326	2314.	0.046
594.	0.329	2314.5	0.049
594.5	0.324	2315.	0.049
595.	0.32	2315.5	0.054
595.5	0.319	2316.	0.053
596.	0.321	2316.5	0.051
596.5	0.325	2317.	0.051
597.	0.327	2317.5	0.05
597.5	0.324	2318.	0.051
598.	0.318	2318.5	0.051
598.5	0.321	2319.	0.047
599.	0.322	2319.5	0.043
599.5	0.326	2320.	0.049
600.	0.322	2320.5	0.054
600.5	0.324	2321.	0.051
601.	0.323	2321.5	0.049
601.5	0.315	2322.	0.048
602.	0.318	2322.5	0.053
602.5	0.32	2323.	0.05
603.	0.322	2323.5	0.052
603.5	0.319	2324.	0.048
604.	0.322	2324.5	0.054
604.5	0.324	2325.	0.053
605.	0.319	2325.5	0.046
605.5	0.315	2326.	0.049
606.	0.319	2326.5	0.049
606.5	0.314	2327.	0.041
607.	0.314	2327.5	0.052
607.5	0.317	2328.	0.05
608.	0.315	2328.5	0.046
608.5	0.318	2329.	0.05
609.	0.318	2329.5	0.047
609.5	0.314	2330.	0.046
610.	0.312	2330.5	0.052
610.5	0.319	2331.	0.045
611.	0.315	2331.5	0.048
611.5	0.32	2332.	0.046
612.	0.317	2332.5	0.05
612.5	0.323	2333.	0.052
613.	0.319	2333.5	0.048
613.5	0.314	2334.	0.05
614.	0.316	2334.5	0.05
614.5	0.317	2335.	0.049
615.	0.32	2335.5	0.048
615.5	0.317	2336.	0.051
616.	0.322	2336.5	0.048
616.5	0.314	2337.	0.05
617.	0.311	2337.5	0.05
617.5	0.313	2338.	0.047
618.	0.312	2338.5	0.046

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
618.5	0.314	2339.	0.05
619.	0.308	2339.5	0.051
619.5	0.316	2340.	0.051
620.	0.315	2340.5	0.049
620.5	0.315	2341.	0.054
621.	0.312	2341.5	0.05
621.5	0.312	2342.	0.048
622.	0.317	2342.5	0.05
622.5	0.314	2343.	0.053
623.	0.312	2343.5	0.049
623.5	0.312	2344.	0.05
624.	0.314	2344.5	0.052
624.5	0.316	2345.	0.048
625.	0.312	2345.5	0.052
625.5	0.313	2346.	0.048
626.	0.312	2346.5	0.05
626.5	0.316	2347.	0.052
627.	0.314	2347.5	0.047
627.5	0.317	2348.	0.05
628.	0.314	2348.5	0.05
628.5	0.318	2349.	0.047
629.	0.314	2349.5	0.048
629.5	0.309	2350.	0.043
630.	0.309	2350.5	0.051
630.5	0.312	2351.	0.046
631.	0.309	2351.5	0.048
631.5	0.316	2352.	0.051
632.	0.31	2352.5	0.052
632.5	0.314	2353.	0.05
633.	0.31	2353.5	0.049
633.5	0.315	2354.	0.048
634.	0.31	2354.5	0.048
634.5	0.314	2355.	0.048
635.	0.314	2355.5	0.046
635.5	0.314	2356.	0.046
636.	0.308	2356.5	0.049
636.5	0.31	2357.	0.049
637.	0.31	2357.5	0.047
637.5	0.312	2358.	0.042
638.	0.315	2358.5	0.049
638.5	0.311	2359.	0.05
639.	0.309	2359.5	0.049
639.5	0.311	2360.	0.047
640.	0.312	2360.5	0.042
640.5	0.312	2361.	0.049
641.	0.304	2361.5	0.048
641.5	0.308	2362.	0.047
642.	0.306	2362.5	0.043
642.5	0.308	2363.	0.043
643.	0.307	2363.5	0.049
643.5	0.311	2364.	0.046
644.	0.305	2364.5	0.047
644.5	0.31	2365.	0.045
645.	0.312	2365.5	0.051
645.5	0.309	2366.	0.042
646.	0.309	2366.5	0.047
646.5	0.315	2367.	0.048
647.	0.307	2367.5	0.045
647.5	0.308	2368.	0.046
648.	0.306	2368.5	0.042
648.5	0.31	2369.	0.044
649.	0.305	2369.5	0.051
649.5	0.307	2370.	0.044
650.	0.305	2370.5	0.046
650.5	0.305	2371.	0.048
651.	0.307	2371.5	0.049
651.5	0.303	2372.	0.041

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
652.	0.304	2372.5	0.048
652.5	0.302	2373.	0.053
653.	0.303	2373.5	0.05
653.5	0.302	2374.	0.042
654.	0.304	2374.5	0.05
654.5	0.305	2375.	0.048
655.	0.306	2375.5	0.051
655.5	0.303	2376.	0.041
656.	0.302	2376.5	0.044
656.5	0.307	2377.	0.047
657.	0.302	2377.5	0.041
657.5	0.298	2378.	0.045
658.	0.3	2378.5	0.043
658.5	0.306	2379.	0.051
659.	0.3	2379.5	0.044
659.5	0.301	2380.	0.048
660.	0.301	2380.5	0.049
660.5	0.305	2381.	0.049
661.	0.301	2381.5	0.048
661.5	0.301	2382.	0.041
662.	0.302	2382.5	0.045
662.5	0.299	2383.	0.044
663.	0.298	2383.5	0.043
663.5	0.302	2384.	0.048
664.	0.297	2384.5	0.047
664.5	0.3	2385.	0.044
665.	0.303	2385.5	0.045
665.5	0.303	2386.	0.046
666.	0.304	2386.5	0.045
666.5	0.3	2387.	0.047
667.	0.297	2387.5	0.048
667.5	0.299	2388.	0.047
668.	0.297	2388.5	0.046
668.5	0.302	2389.	0.045
669.	0.293	2389.5	0.042
669.5	0.293	2390.	0.042
670.	0.297	2390.5	0.045
670.5	0.297	2391.	0.04
671.	0.301	2391.5	0.045
671.5	0.302	2392.	0.042
672.	0.291	2392.5	0.044
672.5	0.298	2393.	0.044
673.	0.299	2393.5	0.045
673.5	0.302	2394.	0.046
674.	0.296	2394.5	0.045
674.5	0.297	2395.	0.047
675.	0.298	2395.5	0.048
675.5	0.3	2396.	0.038
676.	0.297	2396.5	0.049
676.5	0.296	2397.	0.045
677.	0.296	2397.5	0.045
677.5	0.297	2398.	0.041
678.	0.296	2398.5	0.043
678.5	0.297	2399.	0.042
679.	0.294	2399.5	0.044
679.5	0.298	2400.	0.046
680.	0.293	2400.5	0.048
680.5	0.298	2401.	0.045
681.	0.301	2401.5	0.049
681.5	0.29	2402.	0.044
682.	0.296	2402.5	0.042
682.5	0.294	2403.	0.041
683.	0.298	2403.5	0.045
683.5	0.292	2404.	0.046
684.	0.297	2404.5	0.049
684.5	0.297	2405.	0.042
685.	0.293	2405.5	0.043

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
685.5	0.296	2406.	0.04
686.	0.289	2406.5	0.044
686.5	0.292	2407.	0.044
687.	0.294	2407.5	0.048
687.5	0.3	2408.	0.042
688.	0.291	2408.5	0.043
688.5	0.292	2409.	0.042
689.	0.294	2409.5	0.049
689.5	0.293	2410.	0.039
690.	0.291	2410.5	0.041
690.5	0.296	2411.	0.042
691.	0.292	2411.5	0.042
691.5	0.293	2412.	0.04
692.	0.29	2412.5	0.04
692.5	0.294	2413.	0.041
693.	0.293	2413.5	0.046
693.5	0.291	2414.	0.037
694.	0.288	2414.5	0.044
694.5	0.292	2415.	0.044
695.	0.29	2415.5	0.039
695.5	0.294	2416.	0.039
696.	0.294	2416.5	0.042
696.5	0.292	2417.	0.041
697.	0.286	2417.5	0.047
697.5	0.289	2418.	0.041
698.	0.286	2418.5	0.042
698.5	0.293	2419.	0.047
699.	0.288	2419.5	0.05
699.5	0.292	2420.	0.044
700.	0.294	2420.5	0.043
700.5	0.291	2421.	0.038
701.	0.287	2421.5	0.041
701.5	0.292	2422.	0.047
702.	0.292	2422.5	0.04
702.5	0.286	2423.	0.04
703.	0.288	2423.5	0.045
703.5	0.284	2424.	0.044
704.	0.29	2424.5	0.043
704.5	0.289	2425.	0.045
705.	0.285	2425.5	0.04
705.5	0.292	2426.	0.04
706.	0.284	2426.5	0.048
706.5	0.288	2427.	0.042
707.	0.288	2427.5	0.041
707.5	0.285	2428.	0.045
708.	0.284	2428.5	0.039
708.5	0.285	2429.	0.046
709.	0.289	2429.5	0.04
709.5	0.283	2430.	0.045
710.	0.285	2430.5	0.043
710.5	0.285	2431.	0.043
711.	0.28	2431.5	0.04
711.5	0.282	2432.	0.045
712.	0.287	2432.5	0.043
712.5	0.287	2433.	0.042
713.	0.284	2433.5	0.049
713.5	0.279	2434.	0.043
714.	0.285	2434.5	0.038
714.5	0.284	2435.	0.044
715.	0.284	2435.5	0.044
715.5	0.282	2436.	0.035
716.	0.283	2436.5	0.047
716.5	0.287	2437.	0.044
717.	0.282	2437.5	0.045
717.5	0.277	2438.	0.038
718.	0.281	2438.5	0.044
718.5	0.285	2439.	0.043

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
719.	0.287	2439.5	0.042
719.5	0.283	2440.	0.043
720.	0.283	2440.5	0.043
720.5	0.284	2441.	0.039
721.	0.279	2441.5	0.046
721.5	0.28	2442.	0.043
722.	0.278	2442.5	0.04
722.5	0.282	2443.	0.045
723.	0.281	2443.5	0.047
723.5	0.284	2444.	0.048
724.	0.282	2444.5	0.042
724.5	0.282	2445.	0.039
725.	0.28	2445.5	0.043
725.5	0.279	2446.	0.041
726.	0.28	2446.5	0.04
726.5	0.279	2447.	0.038
727.	0.282	2447.5	0.041
727.5	0.277	2448.	0.038
728.	0.278	2448.5	0.045
728.5	0.28	2449.	0.039
729.	0.276	2449.5	0.043
729.5	0.286	2450.	0.039
730.	0.28	2450.5	0.049
730.5	0.285	2451.	0.039
731.	0.277	2451.5	0.04
731.5	0.278	2452.	0.041
732.	0.275	2452.5	0.044
732.5	0.275	2453.	0.042
733.	0.276	2453.5	0.044
733.5	0.278	2454.	0.042
734.	0.279	2454.5	0.043
734.5	0.278	2455.	0.042
735.	0.273	2455.5	0.042
735.5	0.282	2456.	0.039
736.	0.282	2456.5	0.042
736.5	0.28	2457.	0.037
737.	0.269	2457.5	0.047
737.5	0.28	2458.	0.045
738.	0.277	2458.5	0.04
738.5	0.275	2459.	0.043
739.	0.274	2459.5	0.04
739.5	0.275	2460.	0.046
740.	0.278	2460.5	0.044
740.5	0.277	2461.	0.041
741.	0.279	2461.5	0.043
741.5	0.273	2462.	0.041
742.	0.277	2462.5	0.042
742.5	0.279	2463.	0.045
743.	0.272	2463.5	0.043
743.5	0.273	2464.	0.046
744.	0.273	2464.5	0.039
744.5	0.278	2465.	0.042
745.	0.277	2465.5	0.04
745.5	0.275	2466.	0.04
746.	0.273	2466.5	0.041
746.5	0.272	2467.	0.039
747.	0.276	2467.5	0.041
747.5	0.271	2468.	0.039
748.	0.275	2468.5	0.035
748.5	0.273	2469.	0.041
749.	0.271	2469.5	0.043
749.5	0.27	2470.	0.041
750.	0.274	2470.5	0.045
750.5	0.276	2471.	0.042
751.	0.273	2471.5	0.042
751.5	0.27	2472.	0.037
752.	0.271	2472.5	0.043

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
752.5	0.273	2473.	0.04
753.	0.275	2473.5	0.038
753.5	0.27	2474.	0.038
754.	0.271	2474.5	0.037
754.5	0.272	2475.	0.038
755.	0.267	2475.5	0.041
755.5	0.271	2476.	0.04
756.	0.269	2476.5	0.044
756.5	0.275	2477.	0.04
757.	0.269	2477.5	0.041
757.5	0.271	2478.	0.038
758.	0.269	2478.5	0.04
758.5	0.275	2479.	0.039
759.	0.269	2479.5	0.046
759.5	0.275	2480.	0.048
760.	0.275	2480.5	0.046
760.5	0.271	2481.	0.045
761.	0.269	2481.5	0.042
761.5	0.267	2482.	0.043
762.	0.263	2482.5	0.047
762.5	0.271	2483.	0.039
763.	0.265	2483.5	0.047
763.5	0.265	2484.	0.041
764.	0.272	2484.5	0.041
764.5	0.272	2485.	0.044
765.	0.267	2485.5	0.042
765.5	0.269	2486.	0.04
766.	0.267	2486.5	0.044
766.5	0.27	2487.	0.047
767.	0.271	2487.5	0.046
767.5	0.268	2488.	0.046
768.	0.264	2488.5	0.049
768.5	0.268	2489.	0.042
769.	0.263	2489.5	0.041
769.5	0.265	2490.	0.04
770.	0.261	2490.5	0.045
770.5	0.268	2491.	0.038
771.	0.266	2491.5	0.044
771.5	0.267	2492.	0.043
772.	0.267	2492.5	0.038
772.5	0.269	2493.	0.038
773.	0.269	2493.5	0.039
773.5	0.272	2494.	0.046
774.	0.257	2494.5	0.039
774.5	0.263	2495.	0.041
775.	0.263	2495.5	0.04
775.5	0.27	2496.	0.042
776.	0.262	2496.5	0.043
776.5	0.268	2497.	0.042
777.	0.267	2497.5	0.044
777.5	0.261	2498.	0.045
778.	0.262	2498.5	0.045
778.5	0.264	2499.	0.043
779.	0.263	2499.5	0.036
779.5	0.265	2500.	0.037
780.	0.26	2500.5	0.043
780.5	0.266	2501.	0.038
781.	0.267	2501.5	0.045
781.5	0.266	2502.	0.038
782.	0.264	2502.5	0.042
782.5	0.27	2503.	0.042
783.	0.259	2503.5	0.041
783.5	0.266	2504.	0.039
784.	0.262	2504.5	0.046
784.5	0.26	2505.	0.041
785.	0.261	2505.5	0.041
785.5	0.265	2506.	0.04

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
786.	0.267	2506.5	0.042
786.5	0.264	2507.	0.039
787.	0.26	2507.5	0.042
787.5	0.262	2508.	0.035
788.	0.261	2508.5	0.037
788.5	0.258	2509.	0.043
789.	0.258	2509.5	0.046
789.5	0.264	2510.	0.036
790.	0.265	2510.5	0.041
790.5	0.26	2511.	0.03
791.	0.264	2511.5	0.042
791.5	0.258	2512.	0.038
792.	0.258	2512.5	0.042
792.5	0.264	2513.	0.044
793.	0.258	2513.5	0.043
793.5	0.263	2514.	0.042
794.	0.261	2514.5	0.041
794.5	0.259	2515.	0.044
795.	0.267	2515.5	0.048
795.5	0.263	2516.	0.038
796.	0.254	2516.5	0.042
796.5	0.257	2517.	0.037
797.	0.261	2517.5	0.04
797.5	0.258	2518.	0.033
798.	0.258	2518.5	0.044
798.5	0.257	2519.	0.04
799.	0.256	2519.5	0.043
799.5	0.259	2520.	0.038
800.	0.257	2520.5	0.039
800.5	0.26	2521.	0.043
801.	0.258	2521.5	0.04
801.5	0.255	2522.	0.04
802.	0.26	2522.5	0.042
802.5	0.257	2523.	0.032
803.	0.258	2523.5	0.038
803.5	0.261	2524.	0.039
804.	0.261	2524.5	0.043
804.5	0.26	2525.	0.041
805.	0.261	2525.5	0.039
805.5	0.258	2526.	0.041
806.	0.248	2526.5	0.036
806.5	0.254	2527.	0.035
807.	0.253	2527.5	0.039
807.5	0.255	2528.	0.036
808.	0.258	2528.5	0.042
808.5	0.255	2529.	0.04
809.	0.251	2529.5	0.041
809.5	0.257	2530.	0.041
810.	0.254	2530.5	0.037
810.5	0.254	2531.	0.044
811.	0.254	2531.5	0.036
811.5	0.254	2532.	0.034
812.	0.253	2532.5	0.042
812.5	0.255	2533.	0.041
813.	0.252	2533.5	0.038
813.5	0.257	2534.	0.036
814.	0.256	2534.5	0.041
814.5	0.252	2535.	0.038
815.	0.26	2535.5	0.043
815.5	0.257	2536.	0.033
816.	0.264	2536.5	0.041
816.5	0.259	2537.	0.039
817.	0.257	2537.5	0.042
817.5	0.26	2538.	0.035
818.	0.261	2538.5	0.043
818.5	0.253	2539.	0.037
819.	0.255	2539.5	0.037

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
819.5	0.258	2540.	0.039
820.	0.254	2540.5	0.039
820.5	0.257	2541.	0.037
821.	0.256	2541.5	0.038
821.5	0.26	2542.	0.043
822.	0.255	2542.5	0.04
822.5	0.254	2543.	0.039
823.	0.259	2543.5	0.038
823.5	0.251	2544.	0.034
824.	0.253	2544.5	0.041
824.5	0.255	2545.	0.04
825.	0.259	2545.5	0.041
825.5	0.258	2546.	0.04
826.	0.259	2546.5	0.034
826.5	0.255	2547.	0.035
827.	0.258	2547.5	0.041
827.5	0.255	2548.	0.043
828.	0.259	2548.5	0.035
828.5	0.254	2549.	0.032
829.	0.254	2549.5	0.038
829.5	0.259	2550.	0.037
830.	0.26	2550.5	0.039
830.5	0.253	2551.	0.039
831.	0.258	2551.5	0.037
831.5	0.25	2552.	0.042
832.	0.256	2552.5	0.042
832.5	0.255	2553.	0.039
833.	0.252	2553.5	0.037
833.5	0.252	2554.	0.036
834.	0.254	2554.5	0.036
834.5	0.251	2555.	0.036
835.	0.255	2555.5	0.039
835.5	0.253	2556.	0.032
836.	0.249	2556.5	0.035
836.5	0.249	2557.	0.037
837.	0.258	2557.5	0.038
837.5	0.251	2558.	0.033
838.	0.251	2558.5	0.037
838.5	0.257	2559.	0.039
839.	0.253	2559.5	0.045
839.5	0.252	2560.	0.037
840.	0.257	2560.5	0.038
840.5	0.253	2561.	0.034
841.	0.253	2561.5	0.039
841.5	0.253	2562.	0.035
842.	0.255	2562.5	0.034
842.5	0.252	2563.	0.034
843.	0.25	2563.5	0.038
843.5	0.252	2564.	0.039
844.	0.252	2564.5	0.04
844.5	0.249	2565.	0.035
845.	0.251	2565.5	0.037
845.5	0.251	2566.	0.038
846.	0.247	2566.5	0.036
846.5	0.246	2567.	0.032
847.	0.25	2567.5	0.04
847.5	0.247	2568.	0.037
848.	0.251	2568.5	0.041
848.5	0.249	2569.	0.04
849.	0.246	2569.5	0.036
849.5	0.248	2570.	0.04
850.	0.25	2570.5	0.041
850.5	0.25	2571.	0.039
851.	0.25	2571.5	0.037
851.5	0.246	2572.	0.035
852.	0.246	2572.5	0.037
852.5	0.253	2573.	0.037

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
853.	0.245	2573.5	0.037
853.5	0.251	2574.	0.039
854.	0.245	2574.5	0.035
854.5	0.248	2575.	0.036
855.	0.254	2575.5	0.033
855.5	0.244	2576.	0.034
856.	0.247	2576.5	0.036
856.5	0.247	2577.	0.038
857.	0.244	2577.5	0.038
857.5	0.247	2578.	0.038
858.	0.25	2578.5	0.04
858.5	0.243	2579.	0.034
859.	0.25	2579.5	0.037
859.5	0.247	2580.	0.039
860.	0.246	2580.5	0.039
860.5	0.241	2581.	0.038
861.	0.247	2581.5	0.035
861.5	0.244	2582.	0.039
862.	0.249	2582.5	0.039
862.5	0.246	2583.	0.037
863.	0.243	2583.5	0.037
863.5	0.247	2584.	0.038
864.	0.246	2584.5	0.031
864.5	0.245	2585.	0.036
865.	0.239	2585.5	0.032
865.5	0.244	2586.	0.037
866.	0.241	2586.5	0.032
866.5	0.244	2587.	0.038
867.	0.248	2587.5	0.043
867.5	0.248	2588.	0.034
868.	0.238	2588.5	0.036
868.5	0.244	2589.	0.034
869.	0.245	2589.5	0.038
869.5	0.239	2590.	0.033
870.	0.241	2590.5	0.041
870.5	0.24	2591.	0.035
871.	0.243	2591.5	0.033
871.5	0.241	2592.	0.033
872.	0.242	2592.5	0.04
872.5	0.249	2593.	0.039
873.	0.241	2593.5	0.034
873.5	0.24	2594.	0.039
874.	0.244	2594.5	0.033
874.5	0.245	2595.	0.034
875.	0.247	2595.5	0.034
875.5	0.24	2596.	0.04
876.	0.248	2596.5	0.034
876.5	0.239	2597.	0.032
877.	0.243	2597.5	0.039
877.5	0.239	2598.	0.035
878.	0.243	2598.5	0.038
878.5	0.237	2599.	0.031
879.	0.242	2599.5	0.034
879.5	0.239	2600.	0.035
880.	0.242	2600.5	0.038
880.5	0.241	2601.	0.037
881.	0.24	2601.5	0.035
881.5	0.241	2602.	0.034
882.	0.242	2602.5	0.033
882.5	0.243	2603.	0.033
883.	0.244	2603.5	0.036
883.5	0.24	2604.	0.037
884.	0.24	2604.5	0.042
884.5	0.239	2605.	0.041
885.	0.244	2605.5	0.033
885.5	0.239	2606.	0.036
886.	0.24	2606.5	0.034

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
886.5	0.236	2607.	0.033
887.	0.238	2607.5	0.033
887.5	0.234	2608.	0.033
888.	0.239	2608.5	0.035
888.5	0.237	2609.	0.029
889.	0.238	2609.5	0.035
889.5	0.243	2610.	0.034
890.	0.239	2610.5	0.041
890.5	0.237	2611.	0.031
891.	0.24	2611.5	0.038
891.5	0.241	2612.	0.036
892.	0.238	2612.5	0.036
892.5	0.234	2613.	0.03
893.	0.239	2613.5	0.032
893.5	0.237	2614.	0.035
894.	0.237	2614.5	0.035
894.5	0.235	2615.	0.033
895.	0.236	2615.5	0.039
895.5	0.238	2616.	0.03
896.	0.241	2616.5	0.038
896.5	0.237	2617.	0.038
897.	0.235	2617.5	0.035
897.5	0.238	2618.	0.028
898.	0.234	2618.5	0.035
898.5	0.237	2619.	0.033
899.	0.236	2619.5	0.035
899.5	0.236	2620.	0.039
900.	0.239	2620.5	0.038
900.5	0.234	2621.	0.039
901.	0.236	2621.5	0.035
901.5	0.231	2622.	0.037
902.	0.24	2622.5	0.033
902.5	0.235	2623.	0.035
903.	0.237	2623.5	0.035
903.5	0.235	2624.	0.036
904.	0.237	2624.5	0.041
904.5	0.233	2625.	0.036
905.	0.229	2625.5	0.036
905.5	0.235	2626.	0.03
906.	0.234	2626.5	0.038
906.5	0.235	2627.	0.035
907.	0.236	2627.5	0.039
907.5	0.235	2628.	0.033
908.	0.242	2628.5	0.037
908.5	0.23	2629.	0.031
909.	0.238	2629.5	0.035
909.5	0.228	2630.	0.034
910.	0.232	2630.5	0.038
910.5	0.235	2631.	0.036
911.	0.237	2631.5	0.032
911.5	0.229	2632.	0.035
912.	0.232	2632.5	0.036
912.5	0.233	2633.	0.033
913.	0.233	2633.5	0.036
913.5	0.233	2634.	0.033
914.	0.232	2634.5	0.039
914.5	0.227	2635.	0.035
915.	0.227	2635.5	0.033
915.5	0.23	2636.	0.031
916.	0.235	2636.5	0.032
916.5	0.232	2637.	0.034
917.	0.233	2637.5	0.034
917.5	0.231	2638.	0.03
918.	0.236	2638.5	0.031
918.5	0.231	2639.	0.033
919.	0.234	2639.5	0.029
919.5	0.229	2640.	0.035

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
920.	0.227	2640.5	0.036
920.5	0.229	2641.	0.036
921.	0.23	2641.5	0.035
921.5	0.228	2642.	0.035
922.	0.235	2642.5	0.036
922.5	0.225	2643.	0.033
923.	0.235	2643.5	0.039
923.5	0.225	2644.	0.035
924.	0.236	2644.5	0.032
924.5	0.23	2645.	0.033
925.	0.227	2645.5	0.031
925.5	0.226	2646.	0.034
926.	0.229	2646.5	0.037
926.5	0.227	2647.	0.029
927.	0.226	2647.5	0.038
927.5	0.233	2648.	0.034
928.	0.227	2648.5	0.035
928.5	0.232	2649.	0.029
929.	0.229	2649.5	0.031
929.5	0.228	2650.	0.027
930.	0.226	2650.5	0.029
930.5	0.231	2651.	0.034
931.	0.228	2651.5	0.038
931.5	0.227	2652.	0.036
932.	0.228	2652.5	0.04
932.5	0.224	2653.	0.034
933.	0.229	2653.5	0.028
933.5	0.224	2654.	0.031
934.	0.225	2654.5	0.032
934.5	0.228	2655.	0.031
935.	0.227	2655.5	0.04
935.5	0.228	2656.	0.03
936.	0.228	2656.5	0.037
936.5	0.226	2657.	0.04
937.	0.228	2657.5	0.029
937.5	0.227	2658.	0.032
938.	0.226	2658.5	0.037
938.5	0.227	2659.	0.035
939.	0.231	2659.5	0.035
939.5	0.227	2660.	0.032
940.	0.225	2660.5	0.03
940.5	0.231	2661.	0.034
941.	0.227	2661.5	0.032
941.5	0.223	2662.	0.038
942.	0.225	2662.5	0.032
942.5	0.226	2663.	0.035
943.	0.225	2663.5	0.029
943.5	0.222	2664.	0.03
944.	0.227	2664.5	0.035
944.5	0.224	2665.	0.032
945.	0.223	2665.5	0.035
945.5	0.223	2666.	0.031
946.	0.226	2666.5	0.032
946.5	0.22	2667.	0.031
947.	0.224	2667.5	0.027
947.5	0.22	2668.	0.033
948.	0.222	2668.5	0.039
948.5	0.224	2669.	0.027
949.	0.226	2669.5	0.036
949.5	0.218	2670.	0.041
950.	0.224	2670.5	0.029
950.5	0.227	2671.	0.034
951.	0.219	2671.5	0.031
951.5	0.218	2672.	0.031
952.	0.22	2672.5	0.034
952.5	0.222	2673.	0.034
953.	0.223	2673.5	0.03

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
953.5	0.221	2674.	0.03
954.	0.224	2674.5	0.036
954.5	0.221	2675.	0.03
955.	0.222	2675.5	0.032
955.5	0.219	2676.	0.03
956.	0.22	2676.5	0.036
956.5	0.219	2677.	0.035
957.	0.222	2677.5	0.037
957.5	0.219	2678.	0.032
958.	0.227	2678.5	0.033
958.5	0.223	2679.	0.031
959.	0.22	2679.5	0.037
959.5	0.225	2680.	0.036
960.	0.225	2680.5	0.038
960.5	0.222	2681.	0.035
961.	0.221	2681.5	0.036
961.5	0.223	2682.	0.033
962.	0.221	2682.5	0.031
962.5	0.224	2683.	0.033
963.	0.219	2683.5	0.031
963.5	0.219	2684.	0.035
964.	0.22	2684.5	0.033
964.5	0.219	2685.	0.036
965.	0.221	2685.5	0.036
965.5	0.22	2686.	0.033
966.	0.221	2686.5	0.039
966.5	0.223	2687.	0.032
967.	0.218	2687.5	0.034
967.5	0.22	2688.	0.028
968.	0.217	2688.5	0.035
968.5	0.216	2689.	0.032
969.	0.218	2689.5	0.036
969.5	0.221	2690.	0.034
970.	0.224	2690.5	0.035
970.5	0.22	2691.	0.03
971.	0.223	2691.5	0.031
971.5	0.221	2692.	0.033
972.	0.22	2692.5	0.035
972.5	0.214	2693.	0.031
973.	0.217	2693.5	0.038
973.5	0.22	2694.	0.035
974.	0.215	2694.5	0.032
974.5	0.217	2695.	0.032
975.	0.213	2695.5	0.029
975.5	0.219	2696.	0.036
976.	0.219	2696.5	0.033
976.5	0.217	2697.	0.027
977.	0.214	2697.5	0.031
977.5	0.213	2698.	0.035
978.	0.219	2698.5	0.031
978.5	0.216	2699.	0.033
979.	0.221	2699.5	0.035
979.5	0.217	2700.	0.033
980.	0.219	2700.5	0.031
980.5	0.217	2701.	0.029
981.	0.221	2701.5	0.033
981.5	0.218	2702.	0.033
982.	0.216	2702.5	0.035
982.5	0.214	2703.	0.033
983.	0.219	2703.5	0.034
983.5	0.219	2704.	0.031
984.	0.218	2704.5	0.033
984.5	0.214	2705.	0.035
985.	0.214	2705.5	0.034
985.5	0.215	2706.	0.035
986.	0.217	2706.5	0.03
986.5	0.218	2707.	0.03

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
987.	0.218	2707.5	0.036
987.5	0.213	2708.	0.033
988.	0.214	2708.5	0.034
988.5	0.211	2709.	0.033
989.	0.214	2709.5	0.031
989.5	0.215	2710.	0.031
990.	0.219	2710.5	0.028
990.5	0.218	2711.	0.032
991.	0.214	2711.5	0.034
991.5	0.217	2712.	0.027
992.	0.212	2712.5	0.027
992.5	0.213	2713.	0.032
993.	0.212	2713.5	0.036
993.5	0.212	2714.	0.03
994.	0.217	2714.5	0.027
994.5	0.216	2715.	0.027
995.	0.21	2715.5	0.033
995.5	0.21	2716.	0.03
996.	0.215	2716.5	0.032
996.5	0.21	2717.	0.032
997.	0.21	2717.5	0.029
997.5	0.211	2718.	0.033
998.	0.21	2718.5	0.036
998.5	0.21	2719.	0.031
999.	0.212	2719.5	0.031
999.5	0.212	2720.	0.033
1000.	0.212	2720.5	0.035
1000.5	0.209	2721.	0.028
1001.	0.208	2721.5	0.031
1001.5	0.21	2722.	0.032
1002.	0.219	2722.5	0.031
1002.5	0.207	2723.	0.033
1003.	0.209	2723.5	0.031
1003.5	0.21	2724.	0.029
1004.	0.21	2724.5	0.026
1004.5	0.21	2725.	0.026
1005.	0.208	2725.5	0.028
1005.5	0.208	2726.	0.038
1006.	0.211	2726.5	0.032
1006.5	0.211	2727.	0.03
1007.	0.21	2727.5	0.03
1007.5	0.211	2728.	0.031
1008.	0.213	2728.5	0.025
1008.5	0.207	2729.	0.027
1009.	0.209	2729.5	0.029
1009.5	0.208	2730.	0.036
1010.	0.211	2730.5	0.03
1010.5	0.206	2731.	0.028
1011.	0.211	2731.5	0.024
1011.5	0.208	2732.	0.032
1012.	0.211	2732.5	0.03
1012.5	0.208	2733.	0.031
1013.	0.213	2733.5	0.029
1013.5	0.206	2734.	0.036
1014.	0.207	2734.5	0.03
1014.5	0.206	2735.	0.028
1015.	0.204	2735.5	0.031
1015.5	0.201	2736.	0.031
1016.	0.206	2736.5	0.031
1016.5	0.208	2737.	0.031
1017.	0.205	2737.5	0.031
1017.5	0.202	2738.	0.03
1018.	0.208	2738.5	0.035
1018.5	0.212	2739.	0.027
1019.	0.212	2739.5	0.027
1019.5	0.205	2740.	0.034
1020.	0.211	2740.5	0.031

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1020.5	0.211	2741.	0.026
1021.	0.208	2741.5	0.033
1021.5	0.202	2742.	0.034
1022.	0.209	2742.5	0.026
1022.5	0.205	2743.	0.029
1023.	0.208	2743.5	0.026
1023.5	0.202	2744.	0.03
1024.	0.209	2744.5	0.029
1024.5	0.208	2745.	0.028
1025.	0.205	2745.5	0.034
1025.5	0.207	2746.	0.029
1026.	0.209	2746.5	0.024
1026.5	0.211	2747.	0.026
1027.	0.206	2747.5	0.032
1027.5	0.204	2748.	0.022
1028.	0.21	2748.5	0.028
1028.5	0.205	2749.	0.033
1029.	0.209	2749.5	0.026
1029.5	0.205	2750.	0.024
1030.	0.202	2750.5	0.032
1030.5	0.204	2751.	0.026
1031.	0.205	2751.5	0.029
1031.5	0.204	2752.	0.031
1032.	0.2	2752.5	0.029
1032.5	0.201	2753.	0.026
1033.	0.2	2753.5	0.027
1033.5	0.205	2754.	0.031
1034.	0.203	2754.5	0.023
1034.5	0.203	2755.	0.028
1035.	0.201	2755.5	0.024
1035.5	0.207	2756.	0.031
1036.	0.201	2756.5	0.029
1036.5	0.2	2757.	0.025
1037.	0.202	2757.5	0.033
1037.5	0.201	2758.	0.029
1038.	0.209	2758.5	0.025
1038.5	0.206	2759.	0.028
1039.	0.2	2759.5	0.025
1039.5	0.195	2760.	0.034
1040.	0.207	2760.5	0.028
1040.5	0.209	2761.	0.031
1041.	0.204	2761.5	0.025
1041.5	0.198	2762.	0.029
1042.	0.205	2762.5	0.028
1042.5	0.2	2763.	0.026
1043.	0.203	2763.5	0.025
1043.5	0.201	2764.	0.03
1044.	0.203	2764.5	0.034
1044.5	0.204	2765.	0.022
1045.	0.2	2765.5	0.025
1045.5	0.199	2766.	0.028
1046.	0.202	2766.5	0.025
1046.5	0.201	2767.	0.029
1047.	0.2	2767.5	0.031
1047.5	0.2	2768.	0.028
1048.	0.2	2768.5	0.034
1048.5	0.2	2769.	0.025
1049.	0.2	2769.5	0.029
1049.5	0.199	2770.	0.025
1050.	0.198	2770.5	0.031
1050.5	0.204	2771.	0.024
1051.	0.198	2771.5	0.024
1051.5	0.203	2772.	0.022
1052.	0.199	2772.5	0.032
1052.5	0.196	2773.	0.03
1053.	0.197	2773.5	0.026
1053.5	0.199	2774.	0.03

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1054.	0.199	2774.5	0.027
1054.5	0.199	2775.	0.027
1055.	0.198	2775.5	0.028
1055.5	0.195	2776.	0.026
1056.	0.196	2776.5	0.036
1056.5	0.204	2777.	0.031
1057.	0.2	2777.5	0.025
1057.5	0.197	2778.	0.026
1058.	0.199	2778.5	0.029
1058.5	0.197	2779.	0.024
1059.	0.204	2779.5	0.03
1059.5	0.202	2780.	0.028
1060.	0.204	2780.5	0.033
1060.5	0.199	2781.	0.023
1061.	0.198	2781.5	0.029
1061.5	0.198	2782.	0.03
1062.	0.203	2782.5	0.024
1062.5	0.19	2783.	0.024
1063.	0.2	2783.5	0.024
1063.5	0.2	2784.	0.029
1064.	0.198	2784.5	0.02
1064.5	0.191	2785.	0.027
1065.	0.199	2785.5	0.027
1065.5	0.198	2786.	0.029
1066.	0.197	2786.5	0.026
1066.5	0.199	2787.	0.028
1067.	0.198	2787.5	0.028
1067.5	0.194	2788.	0.028
1068.	0.203	2788.5	0.023
1068.5	0.203	2789.	0.024
1069.	0.197	2789.5	0.025
1069.5	0.2	2790.	0.019
1070.	0.194	2790.5	0.027
1070.5	0.199	2791.	0.023
1071.	0.196	2791.5	0.027
1071.5	0.197	2792.	0.023
1072.	0.195	2792.5	0.029
1072.5	0.193	2793.	0.026
1073.	0.194	2793.5	0.03
1073.5	0.197	2794.	0.028
1074.	0.196	2794.5	0.026
1074.5	0.194	2795.	0.026
1075.	0.194	2795.5	0.029
1075.5	0.194	2796.	0.025
1076.	0.195	2796.5	0.023
1076.5	0.199	2797.	0.024
1077.	0.194	2797.5	0.02
1077.5	0.191	2798.	0.024
1078.	0.192	2798.5	0.027
1078.5	0.199	2799.	0.022
1079.	0.192	2799.5	0.031
1079.5	0.196	2800.	0.024
1080.	0.197	2800.5	0.025
1080.5	0.191	2801.	0.022
1081.	0.197	2801.5	0.029
1081.5	0.194	2802.	0.022
1082.	0.19	2802.5	0.033
1082.5	0.192	2803.	0.026
1083.	0.193	2803.5	0.026
1083.5	0.188	2804.	0.022
1084.	0.194	2804.5	0.026
1084.5	0.191	2805.	0.022
1085.	0.193	2805.5	0.025
1085.5	0.195	2806.	0.02
1086.	0.189	2806.5	0.03
1086.5	0.196	2807.	0.021
1087.	0.191	2807.5	0.02

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1087.5	0.188	2808.	0.024
1088.	0.191	2808.5	0.029
1088.5	0.191	2809.	0.019
1089.	0.195	2809.5	0.026
1089.5	0.187	2810.	0.026
1090.	0.191	2810.5	0.03
1090.5	0.194	2811.	0.027
1091.	0.192	2811.5	0.027
1091.5	0.188	2812.	0.026
1092.	0.191	2812.5	0.025
1092.5	0.192	2813.	0.03
1093.	0.2	2813.5	0.028
1093.5	0.193	2814.	0.027
1094.	0.191	2814.5	0.025
1094.5	0.195	2815.	0.025
1095.	0.189	2815.5	0.027
1095.5	0.193	2816.	0.029
1096.	0.187	2816.5	0.024
1096.5	0.185	2817.	0.025
1097.	0.198	2817.5	0.027
1097.5	0.19	2818.	0.03
1098.	0.193	2818.5	0.029
1098.5	0.188	2819.	0.031
1099.	0.191	2819.5	0.025
1099.5	0.195	2820.	0.026
1100.	0.189	2820.5	0.025
1100.5	0.19	2821.	0.02
1101.	0.19	2821.5	0.025
1101.5	0.187	2822.	0.027
1102.	0.191	2822.5	0.03
1102.5	0.191	2823.	0.025
1103.	0.189	2823.5	0.02
1103.5	0.195	2824.	0.027
1104.	0.194	2824.5	0.027
1104.5	0.184	2825.	0.027
1105.	0.191	2825.5	0.021
1105.5	0.188	2826.	0.029
1106.	0.19	2826.5	0.026
1106.5	0.191	2827.	0.021
1107.	0.186	2827.5	0.024
1107.5	0.193	2828.	0.024
1108.	0.189	2828.5	0.023
1108.5	0.184	2829.	0.022
1109.	0.188	2829.5	0.032
1109.5	0.19	2830.	0.026
1110.	0.19	2830.5	0.024
1110.5	0.184	2831.	0.027
1111.	0.186	2831.5	0.028
1111.5	0.194	2832.	0.025
1112.	0.186	2832.5	0.027
1112.5	0.184	2833.	0.018
1113.	0.189	2833.5	0.022
1113.5	0.188	2834.	0.03
1114.	0.194	2834.5	0.02
1114.5	0.183	2835.	0.018
1115.	0.189	2835.5	0.025
1115.5	0.193	2836.	0.021
1116.	0.183	2836.5	0.026
1116.5	0.189	2837.	0.025
1117.	0.191	2837.5	0.025
1117.5	0.189	2838.	0.028
1118.	0.187	2838.5	0.026
1118.5	0.188	2839.	0.026
1119.	0.183	2839.5	0.025
1119.5	0.187	2840.	0.025
1120.	0.185	2840.5	0.024
1120.5	0.186	2841.	0.025

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1121.	0.188	2841.5	0.03
1121.5	0.188	2842.	0.027
1122.	0.191	2842.5	0.027
1122.5	0.182	2843.	0.025
1123.	0.189	2843.5	0.03
1123.5	0.188	2844.	0.023
1124.	0.185	2844.5	0.021
1124.5	0.188	2845.	0.024
1125.	0.189	2845.5	0.028
1125.5	0.18	2846.	0.023
1126.	0.184	2846.5	0.026
1126.5	0.183	2847.	0.026
1127.	0.192	2847.5	0.023
1127.5	0.184	2848.	0.021
1128.	0.182	2848.5	0.027
1128.5	0.187	2849.	0.022
1129.	0.188	2849.5	0.026
1129.5	0.185	2850.	0.022
1130.	0.188	2850.5	0.024
1130.5	0.183	2851.	0.023
1131.	0.188	2851.5	0.021
1131.5	0.181	2852.	0.023
1132.	0.187	2852.5	0.027
1132.5	0.185	2853.	0.023
1133.	0.183	2853.5	0.018
1133.5	0.186	2854.	0.022
1134.	0.183	2854.5	0.023
1134.5	0.184	2855.	0.022
1135.	0.184	2855.5	0.023
1135.5	0.183	2856.	0.02
1136.	0.188	2856.5	0.025
1136.5	0.184	2857.	0.024
1137.	0.184	2857.5	0.021
1137.5	0.181	2858.	0.022
1138.	0.186	2858.5	0.022
1138.5	0.185	2859.	0.029
1139.	0.191	2859.5	0.024
1139.5	0.188	2860.	0.024
1140.	0.184	2860.5	0.027
1140.5	0.182	2861.	0.023
1141.	0.183	2861.5	0.024
1141.5	0.186	2862.	0.026
1142.	0.182	2862.5	0.017
1142.5	0.178	2863.	0.02
1143.	0.185	2863.5	0.025
1143.5	0.182	2864.	0.023
1144.	0.185	2864.5	0.027
1144.5	0.179	2865.	0.02
1145.	0.188	2865.5	0.026
1145.5	0.181	2866.	0.023
1146.	0.18	2866.5	0.022
1146.5	0.181	2867.	0.028
1147.	0.182	2867.5	0.024
1147.5	0.184	2868.	0.019
1148.	0.183	2868.5	0.024
1148.5	0.182	2869.	0.026
1149.	0.183	2869.5	0.024
1149.5	0.176	2870.	0.025
1150.	0.18	2870.5	0.024
1150.5	0.186	2871.	0.028
1151.	0.181	2871.5	0.022
1151.5	0.178	2872.	0.026
1152.	0.182	2872.5	0.021
1152.5	0.175	2873.	0.021
1153.	0.179	2873.5	0.025
1153.5	0.176	2874.	0.019
1154.	0.178	2874.5	0.023

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1154.5	0.176	2875.	0.02
1155.	0.18	2875.5	0.022
1155.5	0.179	2876.	0.022
1156.	0.183	2876.5	0.019
1156.5	0.174	2877.	0.022
1157.	0.185	2877.5	0.026
1157.5	0.181	2878.	0.02
1158.	0.181	2878.5	0.024
1158.5	0.181	2879.	0.022
1159.	0.178	2879.5	0.019
1159.5	0.178	2880.	0.018
1160.	0.183	2880.5	0.02
1160.5	0.176	2881.	0.023
1161.	0.178	2881.5	0.024
1161.5	0.179	2882.	0.023
1162.	0.18	2882.5	0.027
1162.5	0.182	2883.	0.026
1163.	0.18	2883.5	0.021
1163.5	0.175	2884.	0.023
1164.	0.177	2884.5	0.03
1164.5	0.173	2885.	0.027
1165.	0.179	2885.5	0.02
1165.5	0.178	2886.	0.029
1166.	0.179	2886.5	0.02
1166.5	0.175	2887.	0.026
1167.	0.178	2887.5	0.025
1167.5	0.182	2888.	0.021
1168.	0.179	2888.5	0.019
1168.5	0.179	2889.	0.02
1169.	0.181	2889.5	0.023
1169.5	0.181	2890.	0.021
1170.	0.177	2890.5	0.024
1170.5	0.175	2891.	0.022
1171.	0.175	2891.5	0.022
1171.5	0.174	2892.	0.028
1172.	0.18	2892.5	0.022
1172.5	0.18	2893.	0.02
1173.	0.178	2893.5	0.03
1173.5	0.175	2894.	0.023
1174.	0.176	2894.5	0.033
1174.5	0.175	2895.	0.021
1175.	0.178	2895.5	0.021
1175.5	0.173	2896.	0.02
1176.	0.175	2896.5	0.028
1176.5	0.179	2897.	0.025
1177.	0.178	2897.5	0.024
1177.5	0.174	2898.	0.017
1178.	0.172	2898.5	0.019
1178.5	0.176	2899.	0.021
1179.	0.172	2899.5	0.021
1179.5	0.175	2900.	0.018
1180.	0.173	2900.5	0.03
1180.5	0.176	2901.	0.02
1181.	0.169	2901.5	0.021
1181.5	0.174	2902.	0.021
1182.	0.176	2902.5	0.028
1182.5	0.173	2903.	0.025
1183.	0.179	2903.5	0.024
1183.5	0.176	2904.	0.025
1184.	0.173	2904.5	0.025
1184.5	0.176	2905.	0.02
1185.	0.174	2905.5	0.028
1185.5	0.176	2906.	0.023
1186.	0.176	2906.5	0.019
1186.5	0.173	2907.	0.023
1187.	0.174	2907.5	0.025
1187.5	0.176	2908.	0.023

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1188.	0.176	2908.5	0.019
1188.5	0.168	2909.	0.03
1189.	0.173	2909.5	0.024
1189.5	0.171	2910.	0.017
1190.	0.174	2910.5	0.023
1190.5	0.171	2911.	0.016
1191.	0.176	2911.5	0.02
1191.5	0.173	2912.	0.024
1192.	0.171	2912.5	0.021
1192.5	0.177	2913.	0.019
1193.	0.167	2913.5	0.018
1193.5	0.17	2914.	0.021
1194.	0.173	2914.5	0.016
1194.5	0.168	2915.	0.024
1195.	0.172	2915.5	0.023
1195.5	0.17	2916.	0.021
1196.	0.17	2916.5	0.019
1196.5	0.172	2917.	0.019
1197.	0.171	2917.5	0.022
1197.5	0.172	2918.	0.021
1198.	0.169	2918.5	0.018
1198.5	0.169	2919.	0.023
1199.	0.173	2919.5	0.025
1199.5	0.174	2920.	0.023
1200.	0.175	2920.5	0.024
1200.5	0.176	2921.	0.018
1201.	0.173	2921.5	0.025
1201.5	0.168	2922.	0.025
1202.	0.17	2922.5	0.023
1202.5	0.168	2923.	0.024
1203.	0.171	2923.5	0.022
1203.5	0.166	2924.	0.018
1204.	0.171	2924.5	0.023
1204.5	0.169	2925.	0.014
1205.	0.172	2925.5	0.021
1205.5	0.167	2926.	0.021
1206.	0.17	2926.5	0.02
1206.5	0.17	2927.	0.02
1207.	0.169	2927.5	0.026
1207.5	0.172	2928.	0.023
1208.	0.174	2928.5	0.021
1208.5	0.169	2929.	0.026
1209.	0.167	2929.5	0.024
1209.5	0.167	2930.	0.019
1210.	0.169	2930.5	0.025
1210.5	0.167	2931.	0.024
1211.	0.167	2931.5	0.022
1211.5	0.171	2932.	0.023
1212.	0.167	2932.5	0.021
1212.5	0.169	2933.	0.024
1213.	0.17	2933.5	0.027
1213.5	0.172	2934.	0.015
1214.	0.168	2934.5	0.018
1214.5	0.167	2935.	0.024
1215.	0.168	2935.5	0.02
1215.5	0.167	2936.	0.016
1216.	0.171	2936.5	0.021
1216.5	0.166	2937.	0.018
1217.	0.17	2937.5	0.023
1217.5	0.168	2938.	0.023
1218.	0.167	2938.5	0.023
1218.5	0.169	2939.	0.017
1219.	0.168	2939.5	0.016
1219.5	0.165	2940.	0.021
1220.	0.166	2940.5	0.02
1220.5	0.169	2941.	0.026
1221.	0.162	2941.5	0.019

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1221.5	0.162	2942.	0.018
1222.	0.166	2942.5	0.023
1222.5	0.164	2943.	0.016
1223.	0.166	2943.5	0.02
1223.5	0.167	2944.	0.024
1224.	0.168	2944.5	0.021
1224.5	0.166	2945.	0.018
1225.	0.166	2945.5	0.019
1225.5	0.17	2946.	0.017
1226.	0.167	2946.5	0.02
1226.5	0.162	2947.	0.02
1227.	0.162	2947.5	0.021
1227.5	0.165	2948.	0.021
1228.	0.16	2948.5	0.024
1228.5	0.166	2949.	0.019
1229.	0.165	2949.5	0.022
1229.5	0.163	2950.	0.02
1230.	0.163	2950.5	0.017
1230.5	0.169	2951.	0.019
1231.	0.167	2951.5	0.017
1231.5	0.161	2952.	0.02
1232.	0.165	2952.5	0.023
1232.5	0.163	2953.	0.017
1233.	0.163	2953.5	0.022
1233.5	0.162	2954.	0.02
1234.	0.165	2954.5	0.022
1234.5	0.165	2955.	0.019
1235.	0.163	2955.5	0.024
1235.5	0.165	2956.	0.018
1236.	0.163	2956.5	0.019
1236.5	0.16	2957.	0.016
1237.	0.165	2957.5	0.02
1237.5	0.167	2958.	0.022
1238.	0.169	2958.5	0.017
1238.5	0.169	2959.	0.017
1239.	0.171	2959.5	0.017
1239.5	0.167	2960.	0.015
1240.	0.162	2960.5	0.022
1240.5	0.165	2961.	0.018
1241.	0.164	2961.5	0.018
1241.5	0.164	2962.	0.018
1242.	0.163	2962.5	0.018
1242.5	0.167	2963.	0.011
1243.	0.163	2963.5	0.017
1243.5	0.161	2964.	0.017
1244.	0.161	2964.5	0.02
1244.5	0.164	2965.	0.02
1245.	0.163	2965.5	0.018
1245.5	0.162	2966.	0.017
1246.	0.162	2966.5	0.018
1246.5	0.161	2967.	0.017
1247.	0.163	2967.5	0.024
1247.5	0.157	2968.	0.021
1248.	0.163	2968.5	0.017
1248.5	0.167	2969.	0.02
1249.	0.165	2969.5	0.019
1249.5	0.159	2970.	0.015
1250.	0.164	2970.5	0.019
1250.5	0.163	2971.	0.012
1251.	0.157	2971.5	0.016
1251.5	0.164	2972.	0.019
1252.	0.162	2972.5	0.023
1252.5	0.16	2973.	0.018
1253.	0.16	2973.5	0.019
1253.5	0.155	2974.	0.011
1254.	0.159	2974.5	0.02
1254.5	0.159	2975.	0.017

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1255.	0.161	2975.5	0.019
1255.5	0.157	2976.	0.018
1256.	0.162	2976.5	0.017
1256.5	0.16	2977.	0.013
1257.	0.163	2977.5	0.018
1257.5	0.159	2978.	0.014
1258.	0.167	2978.5	0.012
1258.5	0.16	2979.	0.013
1259.	0.163	2979.5	0.017
1259.5	0.158	2980.	0.021
1260.	0.161	2980.5	0.02
1260.5	0.159	2981.	0.017
1261.	0.157	2981.5	0.02
1261.5	0.154	2982.	0.014
1262.	0.162	2982.5	0.023
1262.5	0.162	2983.	0.02
1263.	0.16	2983.5	0.014
1263.5	0.158	2984.	0.017
1264.	0.161	2984.5	0.02
1264.5	0.159	2985.	0.015
1265.	0.164	2985.5	0.01
1265.5	0.154	2986.	0.017
1266.	0.162	2986.5	0.021
1266.5	0.157	2987.	0.014
1267.	0.158	2987.5	0.023
1267.5	0.163	2988.	0.008
1268.	0.157	2988.5	0.018
1268.5	0.158	2989.	0.018
1269.	0.162	2989.5	0.02
1269.5	0.157	2990.	0.016
1270.	0.158	2990.5	0.018
1270.5	0.16	2991.	0.01
1271.	0.158	2991.5	0.016
1271.5	0.158	2992.	0.017
1272.	0.157	2992.5	0.015
1272.5	0.155	2993.	0.015
1273.	0.16	2993.5	0.02
1273.5	0.158	2994.	0.017
1274.	0.16	2994.5	0.024
1274.5	0.162	2995.	0.026
1275.	0.156	2995.5	0.021
1275.5	0.156	2996.	0.015
1276.	0.156	2996.5	0.02
1276.5	0.153	2997.	0.023
1277.	0.157	2997.5	0.016
1277.5	0.161	2998.	0.018
1278.	0.16	2998.5	0.016
1278.5	0.15	2999.	0.02
1279.	0.159	2999.5	0.025
1279.5	0.156	3000.	0.016
1280.	0.156	3000.5	0.021
1280.5	0.157	3001.	0.015
1281.	0.163	3001.5	0.019
1281.5	0.161	3002.	0.018
1282.	0.16	3002.5	0.021
1282.5	0.156	3003.	0.019
1283.	0.156	3003.5	0.022
1283.5	0.154	3004.	0.017
1284.	0.162	3004.5	0.02
1284.5	0.155	3005.	0.021
1285.	0.158	3005.5	0.019
1285.5	0.152	3006.	0.014
1286.	0.158	3006.5	0.017
1286.5	0.159	3007.	0.021
1287.	0.157	3007.5	0.021
1287.5	0.158	3008.	0.017
1288.	0.156	3008.5	0.021

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1288.5	0.159	3009.	0.024
1289.	0.159	3009.5	0.021
1289.5	0.152	3010.	0.017
1290.	0.155	3010.5	0.016
1290.5	0.156	3011.	0.019
1291.	0.153	3011.5	0.022
1291.5	0.152	3012.	0.02
1292.	0.157	3012.5	0.018
1292.5	0.153	3013.	0.02
1293.	0.154	3013.5	0.021
1293.5	0.157	3014.	0.017
1294.	0.158	3014.5	0.019
1294.5	0.157	3015.	0.019
1295.	0.151	3015.5	0.022
1295.5	0.152	3016.	0.016
1296.	0.159	3016.5	0.019
1296.5	0.151	3017.	0.019
1297.	0.156	3017.5	0.02
1297.5	0.158	3018.	0.018
1298.	0.152	3018.5	0.016
1298.5	0.155	3019.	0.021
1299.	0.155	3019.5	0.021
1299.5	0.152	3020.	0.022
1300.	0.154	3020.5	0.02
1300.5	0.154	3021.	0.02
1301.	0.158	3021.5	0.021
1301.5	0.156	3022.	0.014
1302.	0.156	3022.5	0.021
1302.5	0.154	3023.	0.01
1303.	0.152	3023.5	0.022
1303.5	0.154	3024.	0.013
1304.	0.157	3024.5	0.02
1304.5	0.157	3025.	0.016
1305.	0.162	3025.5	0.017
1305.5	0.156	3026.	0.016
1306.	0.154	3026.5	0.018
1306.5	0.157	3027.	0.017
1307.	0.158	3027.5	0.02
1307.5	0.152	3028.	0.015
1308.	0.157	3028.5	0.016
1308.5	0.153	3029.	0.014
1309.	0.151	3029.5	0.018
1309.5	0.155	3030.	0.008
1310.	0.16	3030.5	0.02
1310.5	0.149	3031.	0.024
1311.	0.153	3031.5	0.021
1311.5	0.153	3032.	0.016
1312.	0.153	3032.5	0.015
1312.5	0.155	3033.	0.014
1313.	0.163	3033.5	0.018
1313.5	0.157	3034.	0.012
1314.	0.154	3034.5	0.021
1314.5	0.153	3035.	0.013
1315.	0.153	3035.5	0.019
1315.5	0.156	3036.	0.018
1316.	0.152	3036.5	0.02
1316.5	0.152	3037.	0.015
1317.	0.155	3037.5	0.017
1317.5	0.155	3038.	0.016
1318.	0.156	3038.5	0.016
1318.5	0.151	3039.	0.016
1319.	0.152	3039.5	0.018
1319.5	0.155	3040.	0.015
1320.	0.153	3040.5	0.019
1320.5	0.146	3041.	0.016
1321.	0.154	3041.5	0.018
1321.5	0.156	3042.	0.02

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1322.	0.151	3042.5	0.011
1322.5	0.156	3043.	0.015
1323.	0.156	3043.5	0.013
1323.5	0.147	3044.	0.014
1324.	0.151	3044.5	0.021
1324.5	0.155	3045.	0.016
1325.	0.154	3045.5	0.015
1325.5	0.154	3046.	0.017
1326.	0.157	3046.5	0.012
1326.5	0.148	3047.	0.015
1327.	0.153	3047.5	0.021
1327.5	0.152	3048.	0.021
1328.	0.152	3048.5	0.016
1328.5	0.152	3049.	0.015
1329.	0.153	3049.5	0.022
1329.5	0.151	3050.	0.022
1330.	0.152	3050.5	0.017
1330.5	0.151	3051.	0.01
1331.	0.153	3051.5	0.012
1331.5	0.151	3052.	0.016
1332.	0.153	3052.5	0.019
1332.5	0.149	3053.	0.021
1333.	0.146	3053.5	0.022
1333.5	0.146	3054.	0.016
1334.	0.156	3054.5	0.019
1334.5	0.15	3055.	0.013
1335.	0.146	3055.5	0.018
1335.5	0.151	3056.	0.021
1336.	0.152	3056.5	0.014
1336.5	0.146	3057.	0.02
1337.	0.144	3057.5	0.019
1337.5	0.151	3058.	0.018
1338.	0.149	3058.5	0.015
1338.5	0.152	3059.	0.009
1339.	0.148	3059.5	0.014
1339.5	0.151	3060.	0.012
1340.	0.149	3060.5	0.021
1340.5	0.147	3061.	0.018
1341.	0.151	3061.5	0.008
1341.5	0.147	3062.	0.016
1342.	0.153	3062.5	0.021
1342.5	0.15	3063.	0.016
1343.	0.15	3063.5	0.012
1343.5	0.149	3064.	0.013
1344.	0.143	3064.5	0.017
1344.5	0.149	3065.	0.015
1345.	0.149	3065.5	0.019
1345.5	0.144	3066.	0.016
1346.	0.15	3066.5	0.017
1346.5	0.145	3067.	0.016
1347.	0.145	3067.5	0.012
1347.5	0.142	3068.	0.013
1348.	0.145	3068.5	0.023
1348.5	0.154	3069.	0.017
1349.	0.15	3069.5	0.018
1349.5	0.147	3070.	0.015
1350.	0.145	3070.5	0.019
1350.5	0.144	3071.	0.016
1351.	0.15	3071.5	0.018
1351.5	0.151	3072.	0.015
1352.	0.149	3072.5	0.014
1352.5	0.147	3073.	0.017
1353.	0.14	3073.5	0.016
1353.5	0.145	3074.	0.023
1354.	0.145	3074.5	0.016
1354.5	0.148	3075.	0.014
1355.	0.153	3075.5	0.015

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1355.5	0.144	3076.	0.017
1356.	0.15	3076.5	0.015
1356.5	0.146	3077.	0.016
1357.	0.148	3077.5	0.016
1357.5	0.145	3078.	0.018
1358.	0.144	3078.5	0.019
1358.5	0.149	3079.	0.019
1359.	0.15	3079.5	0.013
1359.5	0.147	3080.	0.011
1360.	0.145	3080.5	0.015
1360.5	0.151	3081.	0.013
1361.	0.143	3081.5	0.015
1361.5	0.144	3082.	0.014
1362.	0.144	3082.5	0.017
1362.5	0.142	3083.	0.015
1363.	0.147	3083.5	0.019
1363.5	0.145	3084.	0.008
1364.	0.147	3084.5	0.017
1364.5	0.144	3085.	0.015
1365.	0.147	3085.5	0.014
1365.5	0.141	3086.	0.017
1366.	0.147	3086.5	0.017
1366.5	0.147	3087.	0.02
1367.	0.146	3087.5	0.017
1367.5	0.145	3088.	0.015
1368.	0.143	3088.5	0.017
1368.5	0.138	3089.	0.015
1369.	0.145	3089.5	0.017
1369.5	0.142	3090.	0.014
1370.	0.142	3090.5	0.017
1370.5	0.144	3091.	0.012
1371.	0.145	3091.5	0.015
1371.5	0.149	3092.	0.016
1372.	0.146	3092.5	0.018
1372.5	0.143	3093.	0.013
1373.	0.149	3093.5	0.016
1373.5	0.145	3094.	0.018
1374.	0.143	3094.5	0.022
1374.5	0.144	3095.	0.015
1375.	0.141	3095.5	0.014
1375.5	0.14	3096.	0.015
1376.	0.142	3096.5	0.019
1376.5	0.144	3097.	0.011
1377.	0.143	3097.5	0.018
1377.5	0.143	3098.	0.016
1378.	0.144	3098.5	0.015
1378.5	0.14	3099.	0.014
1379.	0.143	3099.5	0.013
1379.5	0.144	3100.	0.011
1380.	0.143	3100.5	0.015
1380.5	0.145	3101.	0.017
1381.	0.144	3101.5	0.014
1381.5	0.14	3102.	0.014
1382.	0.139	3102.5	0.016
1382.5	0.143	3103.	0.013
1383.	0.141	3103.5	0.02
1383.5	0.142	3104.	0.012
1384.	0.138	3104.5	0.012
1384.5	0.146	3105.	0.016
1385.	0.14	3105.5	0.016
1385.5	0.143	3106.	0.017
1386.	0.148	3106.5	0.017
1386.5	0.145	3107.	0.014
1387.	0.142	3107.5	0.021
1387.5	0.143	3108.	0.013
1388.	0.14	3108.5	0.016
1388.5	0.141	3109.	0.014

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1389.	0.147	3109.5	0.017
1389.5	0.136	3110.	0.013
1390.	0.142	3110.5	0.016
1390.5	0.142	3111.	0.016
1391.	0.141	3111.5	0.009
1391.5	0.143	3112.	0.016
1392.	0.142	3112.5	0.019
1392.5	0.139	3113.	0.011
1393.	0.14	3113.5	0.016
1393.5	0.136	3114.	0.014
1394.	0.135	3114.5	0.017
1394.5	0.144	3115.	0.011
1395.	0.14	3115.5	0.015
1395.5	0.141	3116.	0.011
1396.	0.141	3116.5	0.015
1396.5	0.146	3117.	0.009
1397.	0.141	3117.5	0.012
1397.5	0.138	3118.	0.008
1398.	0.141	3118.5	0.017
1398.5	0.139	3119.	0.014
1399.	0.14	3119.5	0.016
1399.5	0.138	3120.	0.015
1400.	0.143	3120.5	0.013
1400.5	0.136	3121.	0.013
1401.	0.14	3121.5	0.011
1401.5	0.136	3122.	0.015
1402.	0.142	3122.5	0.018
1402.5	0.135	3123.	0.011
1403.	0.137	3123.5	0.016
1403.5	0.14	3124.	0.018
1404.	0.138	3124.5	0.014
1404.5	0.142	3125.	0.012
1405.	0.137	3125.5	0.014
1405.5	0.141	3126.	0.012
1406.	0.134	3126.5	0.014
1406.5	0.139	3127.	0.012
1407.	0.135	3127.5	0.015
1407.5	0.144	3128.	0.012
1408.	0.133	3128.5	0.015
1408.5	0.137	3129.	0.014
1409.	0.141	3129.5	0.014
1409.5	0.137	3130.	0.015
1410.	0.14	3130.5	0.017
1410.5	0.144	3131.	0.011
1411.	0.14	3131.5	0.013
1411.5	0.134	3132.	0.014
1412.	0.139	3132.5	0.016
1412.5	0.14	3133.	0.015
1413.	0.14	3133.5	0.02
1413.5	0.132	3134.	0.015
1414.	0.14	3134.5	0.015
1414.5	0.137	3135.	0.013
1415.	0.133	3135.5	0.012
1415.5	0.135	3136.	0.013
1416.	0.138	3136.5	0.02
1416.5	0.13	3137.	0.014
1417.	0.137	3137.5	0.011
1417.5	0.135	3138.	0.013
1418.	0.138	3138.5	0.017
1418.5	0.14	3139.	0.015
1419.	0.137	3139.5	0.016
1419.5	0.138	3140.	0.011
1420.	0.137	3140.5	0.014
1420.5	0.141	3141.	0.015
1421.	0.142	3141.5	0.01
1421.5	0.133	3142.	0.016
1422.	0.135	3142.5	0.015

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1422.5	0.135	3143.	0.017
1423.	0.138	3143.5	0.01
1423.5	0.135	3144.	0.014
1424.	0.138	3144.5	0.013
1424.5	0.137	3145.	0.008
1425.	0.134	3145.5	0.015
1425.5	0.135	3146.	0.012
1426.	0.139	3146.5	0.012
1426.5	0.139	3147.	0.017
1427.	0.135	3147.5	0.016
1427.5	0.139	3148.	0.011
1428.	0.134	3148.5	0.015
1428.5	0.135	3149.	0.012
1429.	0.133	3149.5	0.013
1429.5	0.135	3150.	0.011
1430.	0.133	3150.5	0.012
1430.5	0.132	3151.	0.013
1431.	0.133	3151.5	0.014
1431.5	0.13	3152.	0.021
1432.	0.137	3152.5	0.011
1432.5	0.135	3153.	0.012
1433.	0.135	3153.5	0.013
1433.5	0.139	3154.	0.015
1434.	0.136	3154.5	0.013
1434.5	0.133	3155.	0.007
1435.	0.14	3155.5	0.014
1435.5	0.131	3156.	0.014
1436.	0.135	3156.5	0.013
1436.5	0.135	3157.	0.012
1437.	0.135	3157.5	0.013
1437.5	0.138	3158.	0.016
1438.	0.134	3158.5	0.016
1438.5	0.133	3159.	0.014
1439.	0.133	3159.5	0.02
1439.5	0.133	3160.	0.012
1440.	0.135	3160.5	0.016
1440.5	0.133	3161.	0.017
1441.	0.134	3161.5	0.016
1441.5	0.132	3162.	0.014
1442.	0.131	3162.5	0.014
1442.5	0.132	3163.	0.014
1443.	0.134	3163.5	0.017
1443.5	0.128	3164.	0.007
1444.	0.137	3164.5	0.015
1444.5	0.13	3165.	0.013
1445.	0.13	3165.5	0.018
1445.5	0.13	3166.	0.01
1446.	0.129	3166.5	0.014
1446.5	0.133	3167.	0.013
1447.	0.129	3167.5	0.01
1447.5	0.132	3168.	0.015
1448.	0.141	3168.5	0.018
1448.5	0.136	3169.	0.016
1449.	0.132	3169.5	0.017
1449.5	0.127	3170.	0.01
1450.	0.132	3170.5	0.008
1450.5	0.132	3171.	0.01
1451.	0.13	3171.5	0.015
1451.5	0.127	3172.	0.013
1452.	0.13	3172.5	0.008
1452.5	0.13	3173.	0.01
1453.	0.13	3173.5	0.011
1453.5	0.131	3174.	0.012
1454.	0.13	3174.5	0.013
1454.5	0.133	3175.	0.013
1455.	0.136	3175.5	0.014
1455.5	0.128	3176.	0.019

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1456.	0.13	3176.5	0.015
1456.5	0.13	3177.	0.015
1457.	0.13	3177.5	0.014
1457.5	0.132	3178.	0.011
1458.	0.129	3178.5	0.013
1458.5	0.127	3179.	0.014
1459.	0.13	3179.5	0.013
1459.5	0.133	3180.	0.01
1460.	0.132	3180.5	0.015
1460.5	0.131	3181.	0.007
1461.	0.133	3181.5	0.014
1461.5	0.128	3182.	0.014
1462.	0.131	3182.5	0.01
1462.5	0.132	3183.	0.019
1463.	0.135	3183.5	0.017
1463.5	0.128	3184.	0.012
1464.	0.132	3184.5	0.015
1464.5	0.126	3185.	0.007
1465.	0.125	3185.5	0.01
1465.5	0.132	3186.	0.011
1466.	0.134	3186.5	0.011
1466.5	0.129	3187.	0.013
1467.	0.126	3187.5	0.017
1467.5	0.126	3188.	0.009
1468.	0.129	3188.5	0.009
1468.5	0.125	3189.	0.011
1469.	0.126	3189.5	0.011
1469.5	0.125	3190.	0.01
1470.	0.13	3190.5	0.012
1470.5	0.132	3191.	0.012
1471.	0.126	3191.5	0.014
1471.5	0.129	3192.	0.018
1472.	0.129	3192.5	0.019
1472.5	0.134	3193.	0.012
1473.	0.123	3193.5	0.011
1473.5	0.128	3194.	0.009
1474.	0.13	3194.5	0.018
1474.5	0.129	3195.	0.011
1475.	0.13	3195.5	0.015
1475.5	0.124	3196.	0.008
1476.	0.135	3196.5	0.014
1476.5	0.127	3197.	0.015
1477.	0.131	3197.5	0.016
1477.5	0.133	3198.	0.01
1478.	0.125	3198.5	0.014
1478.5	0.128	3199.	0.014
1479.	0.131	3199.5	0.011
1479.5	0.126	3200.	0.015
1480.	0.123	3200.5	0.011
1480.5	0.126	3201.	0.006
1481.	0.13	3201.5	0.012
1481.5	0.125	3202.	0.007
1482.	0.124	3202.5	0.01
1482.5	0.124	3203.	0.013
1483.	0.124	3203.5	0.015
1483.5	0.13	3204.	0.014
1484.	0.13	3204.5	0.015
1484.5	0.132	3205.	0.007
1485.	0.128	3205.5	0.012
1485.5	0.121	3206.	0.006
1486.	0.13	3206.5	0.017
1486.5	0.126	3207.	0.019
1487.	0.126	3207.5	0.015
1487.5	0.127	3208.	0.006
1488.	0.131	3208.5	0.015
1488.5	0.127	3209.	0.014
1489.	0.124	3209.5	0.018

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1489.5	0.128	3210.	0.01
1490.	0.123	3210.5	0.016
1490.5	0.128	3211.	0.005
1491.	0.126	3211.5	0.011
1491.5	0.123	3212.	0.013
1492.	0.125	3212.5	0.01
1492.5	0.122	3213.	0.014
1493.	0.125	3213.5	0.015
1493.5	0.127	3214.	0.012
1494.	0.125	3214.5	0.019
1494.5	0.126	3215.	0.008
1495.	0.133	3215.5	0.012
1495.5	0.129	3216.	0.013
1496.	0.125	3216.5	0.008
1496.5	0.124	3217.	0.009
1497.	0.128	3217.5	0.015
1497.5	0.126	3218.	0.007
1498.	0.127	3218.5	0.013
1498.5	0.124	3219.	0.005
1499.	0.125	3219.5	0.016
1499.5	0.122	3220.	0.012
1500.	0.123	3220.5	0.011
1500.5	0.12	3221.	0.009
1501.	0.126	3221.5	0.014
1501.5	0.121	3222.	0.012
1502.	0.128	3222.5	0.011
1502.5	0.123	3223.	0.008
1503.	0.131	3223.5	0.012
1503.5	0.127	3224.	0.014
1504.	0.122	3224.5	0.008
1504.5	0.124	3225.	0.008
1505.	0.125	3225.5	0.012
1505.5	0.122	3226.	0.016
1506.	0.127	3226.5	0.014
1506.5	0.121	3227.	0.013
1507.	0.13	3227.5	0.009
1507.5	0.12	3228.	0.008
1508.	0.126	3228.5	0.005
1508.5	0.119	3229.	0.008
1509.	0.122	3229.5	0.01
1509.5	0.12	3230.	0.007
1510.	0.124	3230.5	0.014
1510.5	0.123	3231.	0.012
1511.	0.123	3231.5	0.016
1511.5	0.122	3232.	0.012
1512.	0.119	3232.5	0.01
1512.5	0.121	3233.	0.01
1513.	0.122	3233.5	0.007
1513.5	0.125	3234.	0.012
1514.	0.125	3234.5	0.012
1514.5	0.123	3235.	0.001
1515.	0.124	3235.5	0.014
1515.5	0.118	3236.	0.013
1516.	0.122	3236.5	0.018
1516.5	0.121	3237.	0.009
1517.	0.125	3237.5	0.011
1517.5	0.125	3238.	0.01
1518.	0.123	3238.5	0.013
1518.5	0.126	3239.	0.009
1519.	0.122	3239.5	0.007
1519.5	0.12	3240.	0.006
1520.	0.125	3240.5	0.01
1520.5	0.12	3241.	0.006
1521.	0.121	3241.5	0.015
1521.5	0.12	3242.	0.004
1522.	0.125	3242.5	0.011
1522.5	0.121	3243.	0.011

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1523.	0.124	3243.5	0.011
1523.5	0.122	3244.	0.009
1524.	0.124	3244.5	0.015
1524.5	0.127	3245.	0.015
1525.	0.118	3245.5	0.01
1525.5	0.117	3246.	0.014
1526.	0.12	3246.5	0.013
1526.5	0.122	3247.	0.007
1527.	0.122	3247.5	0.007
1527.5	0.122	3248.	0.007
1528.	0.12	3248.5	0.014
1528.5	0.123	3249.	0.008
1529.	0.122	3249.5	0.013
1529.5	0.122	3250.	0.01
1530.	0.127	3250.5	0.007
1530.5	0.119	3251.	0.011
1531.	0.121	3251.5	0.011
1531.5	0.119	3252.	0.005
1532.	0.12	3252.5	0.012
1532.5	0.12	3253.	0.011
1533.	0.123	3253.5	0.007
1533.5	0.124	3254.	0.012
1534.	0.12	3254.5	0.012
1534.5	0.118	3255.	0.005
1535.	0.125	3255.5	0.006
1535.5	0.116	3256.	0.01
1536.	0.116	3256.5	0.008
1536.5	0.118	3257.	0.011
1537.	0.121	3257.5	0.007
1537.5	0.124	3258.	0.005
1538.	0.118	3258.5	0.006
1538.5	0.122	3259.	0.003
1539.	0.121	3259.5	0.01
1539.5	0.121	3260.	0.014
1540.	0.12	3260.5	0.009
1540.5	0.12	3261.	0.017
1541.	0.122	3261.5	0.009
1541.5	0.119	3262.	0.003
1542.	0.126	3262.5	0.012
1542.5	0.119	3263.	0.006
1543.	0.12	3263.5	0.013
1543.5	0.122	3264.	0.005
1544.	0.116	3264.5	0.011
1544.5	0.114	3265.	0.008
1545.	0.117	3265.5	0.006
1545.5	0.121	3266.	0.013
1546.	0.12	3266.5	0.01
1546.5	0.114	3267.	0.012
1547.	0.122	3267.5	0.011
1547.5	0.116	3268.	0.009
1548.	0.122	3268.5	0.009
1548.5	0.118	3269.	0.006
1549.	0.118	3269.5	0.007
1549.5	0.122	3270.	0.01
1550.	0.121	3270.5	0.006
1550.5	0.115	3271.	0.009
1551.	0.122	3271.5	0.01
1551.5	0.117	3272.	0.006
1552.	0.119	3272.5	0.01
1552.5	0.117	3273.	0.01
1553.	0.118	3273.5	0.009
1553.5	0.118	3274.	0.011
1554.	0.119	3274.5	0.005
1554.5	0.113	3275.	0.004
1555.	0.119	3275.5	0.006
1555.5	0.116	3276.	0.005
1556.	0.12	3276.5	0.01

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1556.5	0.116	3277.	0.007
1557.	0.116	3277.5	0.011
1557.5	0.118	3278.	0.009
1558.	0.119	3278.5	0.008
1558.5	0.116	3279.	0.014
1559.	0.118	3279.5	0.007
1559.5	0.116	3280.	0.008
1560.	0.119	3280.5	0.006
1560.5	0.118	3281.	0.007
1561.	0.117	3281.5	0.005
1561.5	0.118	3282.	0.004
1562.	0.115	3282.5	0.014
1562.5	0.114	3283.	0.011
1563.	0.117	3283.5	0.012
1563.5	0.117	3284.	0.005
1564.	0.114	3284.5	0.012
1564.5	0.117	3285.	0.01
1565.	0.116	3285.5	0.005
1565.5	0.113	3286.	0.004
1566.	0.114	3286.5	0.007
1566.5	0.116	3287.	0.006
1567.	0.118	3287.5	0.01
1567.5	0.117	3288.	0.009
1568.	0.113	3288.5	0.008
1568.5	0.108	3289.	0.01
1569.	0.117	3289.5	0.013
1569.5	0.109	3290.	0.011
1570.	0.118	3290.5	0.009
1570.5	0.113	3291.	0.004
1571.	0.111	3291.5	0.003
1571.5	0.113	3292.	0.007
1572.	0.114	3292.5	0.004
1572.5	0.117	3293.	0.009
1573.	0.112	3293.5	0.008
1573.5	0.112	3294.	0.008
1574.	0.115	3294.5	0.01
1574.5	0.118	3295.	0.007
1575.	0.112	3295.5	0.007
1575.5	0.122	3296.	0.006
1576.	0.113	3296.5	0.009
1576.5	0.112	3297.	0.003
1577.	0.113	3297.5	0.007
1577.5	0.117	3298.	0.008
1578.	0.111	3298.5	0.009
1578.5	0.117	3299.	0.008
1579.	0.112	3299.5	0.012
1579.5	0.108	3300.	0.008
1580.	0.113	3300.5	0.008
1580.5	0.109	3301.	0.009
1581.	0.113	3301.5	0.011
1581.5	0.114	3302.	0.01
1582.	0.114	3302.5	0.009
1582.5	0.115	3303.	0.005
1583.	0.115	3303.5	0.009
1583.5	0.112	3304.	0.007
1584.	0.118	3304.5	0.013
1584.5	0.114	3305.	0.004
1585.	0.113	3305.5	0.001
1585.5	0.113	3306.	0.008
1586.	0.116	3306.5	0.007
1586.5	0.112	3307.	0.004
1587.	0.115	3307.5	0.01
1587.5	0.114	3308.	0.008
1588.	0.115	3308.5	0.002
1588.5	0.115	3309.	0.007
1589.	0.118	3309.5	0.007
1589.5	0.118	3310.	0.006

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1590.	0.115	3310.5	0.006
1590.5	0.115	3311.	0.012
1591.	0.117	3311.5	0.007
1591.5	0.108	3312.	0.002
1592.	0.113	3312.5	0.009
1592.5	0.114	3313.	0.005
1593.	0.111	3313.5	0.007
1593.5	0.111	3314.	0.004
1594.	0.113	3314.5	0.009
1594.5	0.113	3315.	0.01
1595.	0.111	3315.5	0.007
1595.5	0.111	3316.	0.006
1596.	0.115	3316.5	0.009
1596.5	0.115	3317.	0.012
1597.	0.111	3317.5	0.007
1597.5	0.12	3318.	0.005
1598.	0.109	3318.5	0.006
1598.5	0.116	3319.	0.007
1599.	0.112	3319.5	0.005
1599.5	0.113	3320.	0.002
1600.	0.11	3320.5	0.013
1600.5	0.118	3321.	0.007
1601.	0.109	3321.5	0.006
1601.5	0.106	3322.	0.007
1602.	0.109	3322.5	0.007
1602.5	0.117	3323.	0.006
1603.	0.11	3323.5	0.005
1603.5	0.11	3324.	0.008
1604.	0.115	3324.5	0.009
1604.5	0.106	3325.	0.004
1605.	0.115	3325.5	0.009
1605.5	0.108	3326.	0.012
1606.	0.111	3326.5	0.008
1606.5	0.113	3327.	0.006
1607.	0.11	3327.5	0.009
1607.5	0.108	3328.	0.003
1608.	0.11	3328.5	0.006
1608.5	0.107	3329.	0.01
1609.	0.112	3329.5	0.008
1609.5	0.11	3330.	0.005
1610.	0.11	3330.5	0.005
1610.5	0.109	3331.	0.002
1611.	0.113	3331.5	-0.001
1611.5	0.109	3332.	0.012
1612.	0.107	3332.5	0.013
1612.5	0.109	3333.	0.004
1613.	0.11	3333.5	0.015
1613.5	0.111	3334.	0.004
1614.	0.11	3334.5	0.003
1614.5	0.108	3335.	0.013
1615.	0.112	3335.5	0.008
1615.5	0.104	3336.	0.003
1616.	0.11	3336.5	0.003
1616.5	0.107	3337.	0.005
1617.	0.109	3337.5	0.007
1617.5	0.109	3338.	0.008
1618.	0.108	3338.5	0.001
1618.5	0.111	3339.	0.004
1619.	0.111	3339.5	0.007
1619.5	0.108	3340.	0.008
1620.	0.105	3340.5	0.003
1620.5	0.11	3341.	0.007
1621.	0.109	3341.5	0.004
1621.5	0.11	3342.	0.002
1622.	0.11	3342.5	0.006
1622.5	0.11	3343.	0.009
1623.	0.114	3343.5	0.002

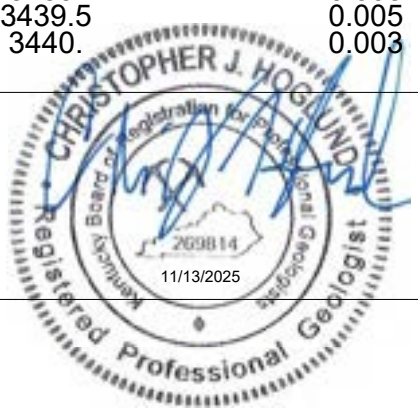
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1623.5	0.113	3344.	0.006
1624.	0.109	3344.5	0.
1624.5	0.11	3345.	0.004
1625.	0.106	3345.5	0.003
1625.5	0.107	3346.	0.007
1626.	0.111	3346.5	0.006
1626.5	0.107	3347.	0.011
1627.	0.11	3347.5	0.005
1627.5	0.108	3348.	0.006
1628.	0.106	3348.5	0.009
1628.5	0.105	3349.	0.008
1629.	0.106	3349.5	0.007
1629.5	0.107	3350.	0.007
1630.	0.11	3350.5	0.011
1630.5	0.107	3351.	0.
1631.	0.108	3351.5	0.005
1631.5	0.108	3352.	0.005
1632.	0.108	3352.5	0.002
1632.5	0.108	3353.	0.003
1633.	0.11	3353.5	0.005
1633.5	0.111	3354.	0.004
1634.	0.107	3354.5	0.005
1634.5	0.105	3355.	0.004
1635.	0.106	3355.5	0.007
1635.5	0.106	3356.	0.007
1636.	0.106	3356.5	0.007
1636.5	0.109	3357.	0.
1637.	0.104	3357.5	0.004
1637.5	0.111	3358.	0.006
1638.	0.114	3358.5	0.001
1638.5	0.109	3359.	0.006
1639.	0.109	3359.5	0.007
1639.5	0.107	3360.	0.007
1640.	0.106	3360.5	0.006
1640.5	0.112	3361.	0.004
1641.	0.103	3361.5	0.004
1641.5	0.105	3362.	0.011
1642.	0.111	3362.5	0.009
1642.5	0.109	3363.	0.007
1643.	0.104	3363.5	0.011
1643.5	0.103	3364.	0.004
1644.	0.102	3364.5	0.004
1644.5	0.102	3365.	0.003
1645.	0.11	3365.5	0.01
1645.5	0.108	3366.	0.002
1646.	0.106	3366.5	0.009
1646.5	0.105	3367.	0.002
1647.	0.107	3367.5	0.007
1647.5	0.11	3368.	0.004
1648.	0.104	3368.5	0.006
1648.5	0.1	3369.	0.004
1649.	0.103	3369.5	0.005
1649.5	0.104	3370.	0.007
1650.	0.105	3370.5	0.009
1650.5	0.106	3371.	0.004
1651.	0.104	3371.5	0.01
1651.5	0.107	3372.	0.012
1652.	0.102	3372.5	0.008
1652.5	0.101	3373.	0.003
1653.	0.102	3373.5	0.011
1653.5	0.103	3374.	0.009
1654.	0.103	3374.5	0.005
1654.5	0.106	3375.	0.003
1655.	0.107	3375.5	0.002
1655.5	0.107	3376.	0.004
1656.	0.102	3376.5	0.005
1656.5	0.102	3377.	0.005

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1657.	0.103	3377.5	0.003
1657.5	0.104	3378.	0.006
1658.	0.103	3378.5	0.007
1658.5	0.102	3379.	0.007
1659.	0.105	3379.5	0.007
1659.5	0.109	3380.	0.009
1660.	0.108	3380.5	0.008
1660.5	0.103	3381.	0.001
1661.	0.102	3381.5	0.004
1661.5	0.107	3382.	0.005
1662.	0.101	3382.5	0.012
1662.5	0.101	3383.	0.006
1663.	0.105	3383.5	0.005
1663.5	0.106	3384.	0.012
1664.	0.104	3384.5	-0.001
1664.5	0.102	3385.	0.01
1665.	0.106	3385.5	0.003
1665.5	0.105	3386.	0.004
1666.	0.1	3386.5	0.003
1666.5	0.106	3387.	0.006
1667.	0.102	3387.5	0.009
1667.5	0.104	3388.	0.006
1668.	0.105	3388.5	0.002
1668.5	0.105	3389.	0.001
1669.	0.101	3389.5	0.006
1669.5	0.099	3390.	0.003
1670.	0.104	3390.5	0.006
1670.5	0.106	3391.	0.011
1671.	0.103	3391.5	0.006
1671.5	0.109	3392.	0.008
1672.	0.103	3392.5	0.004
1672.5	0.102	3393.	0.004
1673.	0.101	3393.5	0.005
1673.5	0.099	3394.	0.003
1674.	0.1	3394.5	0.008
1674.5	0.1	3395.	0.004
1675.	0.098	3395.5	0.004
1675.5	0.105	3396.	0.004
1676.	0.105	3396.5	0.007
1676.5	0.103	3397.	0.004
1677.	0.103	3397.5	0.007
1677.5	0.109	3398.	0.007
1678.	0.105	3398.5	0.003
1678.5	0.099	3399.	0.002
1679.	0.103	3399.5	0.002
1679.5	0.103	3400.	0.007
1680.	0.104	3400.5	0.007
1680.5	0.103	3401.	0.007
1681.	0.102	3401.5	0.007
1681.5	0.097	3402.	0.003
1682.	0.103	3402.5	0.004
1682.5	0.103	3403.	0.001
1683.	0.094	3403.5	0.006
1683.5	0.101	3404.	0.002
1684.	0.101	3404.5	0.003
1684.5	0.101	3405.	0.003
1685.	0.099	3405.5	0.012
1685.5	0.097	3406.	0.001
1686.	0.096	3406.5	0.003
1686.5	0.098	3407.	0.006
1687.	0.098	3407.5	0.007
1687.5	0.105	3408.	0.008
1688.	0.097	3408.5	0.005
1688.5	0.105	3409.	0.012
1689.	0.1	3409.5	0.003
1689.5	0.103	3410.	0.003
1690.	0.098	3410.5	0.009

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1690.5	0.098	3411.	0.
1691.	0.102	3411.5	0.004
1691.5	0.107	3412.	0.005
1692.	0.098	3412.5	0.008
1692.5	0.1	3413.	0.002
1693.	0.102	3413.5	0.006
1693.5	0.099	3414.	-0.002
1694.	0.102	3414.5	0.008
1694.5	0.099	3415.	0.007
1695.	0.1	3415.5	0.01
1695.5	0.096	3416.	0.004
1696.	0.102	3416.5	0.004
1696.5	0.1	3417.	0.003
1697.	0.096	3417.5	0.004
1697.5	0.096	3418.	0.003
1698.	0.104	3418.5	0.004
1698.5	0.1	3419.	0.004
1699.	0.093	3419.5	0.004
1699.5	0.102	3420.	0.002
1700.	0.099	3420.5	0.005
1700.5	0.096	3421.	0.003
1701.	0.103	3421.5	0.005
1701.5	0.101	3422.	0.003
1702.	0.096	3422.5	0.005
1702.5	0.1	3423.	0.002
1703.	0.097	3423.5	0.004
1703.5	0.098	3424.	0.003
1704.	0.101	3424.5	0.003
1704.5	0.099	3425.	0.003
1705.	0.096	3425.5	0.003
1705.5	0.097	3426.	0.003
1706.	0.093	3426.5	0.004
1706.5	0.099	3427.	0.002
1707.	0.099	3427.5	0.004
1707.5	0.095	3428.	0.002
1708.	0.102	3428.5	0.003
1708.5	0.097	3429.	0.003
1709.	0.098	3429.5	0.005
1709.5	0.097	3430.	0.003
1710.	0.095	3430.5	0.005
1710.5	0.097	3431.	0.003
1711.	0.096	3431.5	0.004
1711.5	0.103	3432.	0.004
1712.	0.099	3432.5	0.005
1712.5	0.099	3433.	0.004
1713.	0.095	3433.5	0.005
1713.5	0.103	3434.	0.004
1714.	0.097	3434.5	0.005
1714.5	0.099	3435.	0.005
1715.	0.096	3435.5	0.003
1715.5	0.097	3436.	0.005
1716.	0.101	3436.5	0.004
1716.5	0.101	3437.	0.005
1717.	0.096	3437.5	0.006
1717.5	0.103	3438.	0.003
1718.	0.096	3438.5	0.005
1718.5	0.097	3439.	0.003
1719.	0.097	3439.5	0.005
1719.5	0.097	3440.	0.003
1720.	0.095		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.1

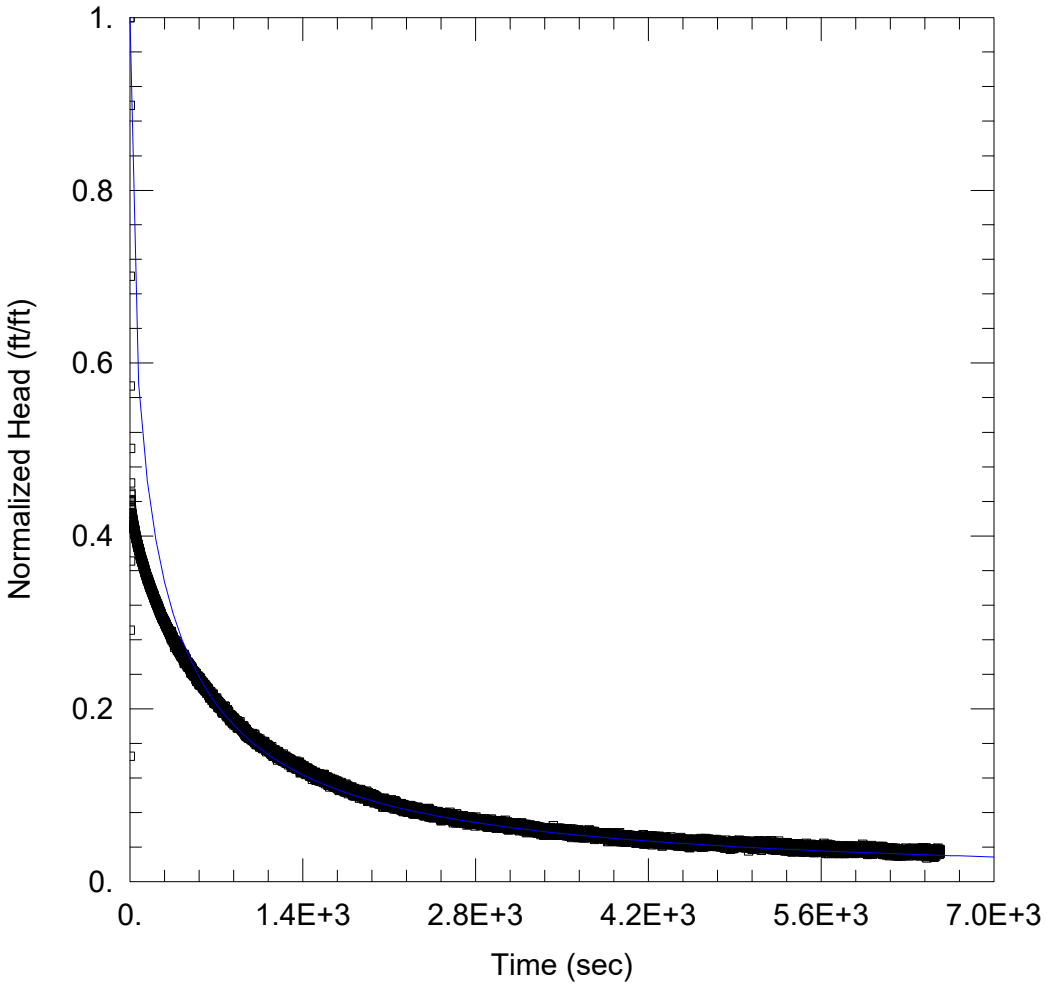


VISUAL ESTIMATION RESULTS

Estimated Parameters

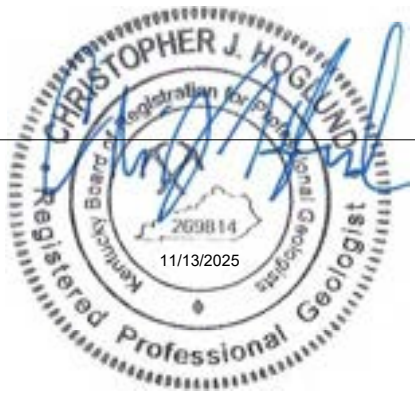
Parameter	Estimate	
K	2.849E-5	cm/sec
y0	0.6709	ft

T = K*b = 0.01375 cm²/sec



MW-118 RISING HEAD 01

Data Set: Z:\...\MW-118 Rising Head 01.aqt
Date: 10/08/25 Time: 14:47:44



PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-118
Test Well: MW-118
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 15.84 ft

WELL DATA (MW-118)

Initial Displacement: 1.606 ft
Total Well Penetration Depth: 15.84 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 15.84 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 1.871E-5 cm/sec
Kz/Kr = 1.
Ss = 0.006313 ft^{-1}

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-118 Rising Head 01
Date: 10/08/25
Time: 14:48:26

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-118
Test Date: 9/18/25
Test Well: MW-118

AQUIFER DATA

Saturated Thickness: 15.84 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-118

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.606 ft
Static Water Column Height: 15.84 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15.84 ft

No. of Observations: 13127

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2.	1.606	3284.5	0.096
3.	1.443	3285.	0.096
3.5	0.233	3285.5	0.095
4.	1.125	3286.	0.097
4.5	0.467	3286.5	0.097
5.	0.921	3287.	0.093
5.5	0.596	3287.5	0.092
6.	0.805	3288.	0.098
6.5	0.678	3288.5	0.099
7.	0.741	3289.	0.103
7.5	0.708	3289.5	0.101
8.	0.71	3290.	0.098
8.5	0.722	3290.5	0.096
9.	0.699	3291.	0.097
9.5	0.719	3291.5	0.101
10.	0.696	3292.	0.1
10.5	0.707	3292.5	0.099
11.	0.684	3293.	0.102
11.5	0.699	3293.5	0.091
12.	0.685	3294.	0.098
12.5	0.695	3294.5	0.097
13.	0.684	3295.	0.096
13.5	0.69	3295.5	0.097
14.	0.684	3296.	0.098
14.5	0.686	3296.5	0.095
15.	0.683	3297.	0.096
15.5	0.685	3297.5	0.097
16.	0.683	3298.	0.095
16.5	0.682	3298.5	0.102
17.	0.683	3299.	0.096
17.5	0.68	3299.5	0.097

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
18.	0.678	3300.	0.096
18.5	0.678	3300.5	0.09
19.	0.679	3301.	0.095
19.5	0.677	3301.5	0.095
20.	0.677	3302.	0.091
20.5	0.676	3302.5	0.098
21.	0.676	3303.	0.094
21.5	0.674	3303.5	0.097
22.	0.674	3304.	0.1
22.5	0.673	3304.5	0.094
23.	0.672	3305.	0.094
23.5	0.672	3305.5	0.094
24.	0.671	3306.	0.101
24.5	0.67	3306.5	0.095
25.	0.671	3307.	0.096
25.5	0.669	3307.5	0.095
26.	0.668	3308.	0.102
26.5	0.668	3308.5	0.1
27.	0.668	3309.	0.097
27.5	0.667	3309.5	0.099
28.	0.667	3310.	0.101
28.5	0.664	3310.5	0.099
29.	0.666	3311.	0.096
29.5	0.664	3311.5	0.099
30.	0.664	3312.	0.098
30.5	0.662	3312.5	0.094
31.	0.662	3313.	0.096
31.5	0.661	3313.5	0.099
32.	0.661	3314.	0.101
32.5	0.662	3314.5	0.094
33.	0.661	3315.	0.099
33.5	0.658	3315.5	0.099
34.	0.659	3316.	0.096
34.5	0.658	3316.5	0.098
35.	0.657	3317.	0.096
35.5	0.656	3317.5	0.098
36.	0.656	3318.	0.1
36.5	0.655	3318.5	0.096
37.	0.655	3319.	0.095
37.5	0.655	3319.5	0.095
38.	0.653	3320.	0.095
38.5	0.654	3320.5	0.093
39.	0.652	3321.	0.097
39.5	0.652	3321.5	0.095
40.	0.65	3322.	0.09
40.5	0.652	3322.5	0.1
41.	0.649	3323.	0.095
41.5	0.651	3323.5	0.101
42.	0.65	3324.	0.097
42.5	0.648	3324.5	0.09
43.	0.647	3325.	0.098
43.5	0.645	3325.5	0.093
44.	0.646	3326.	0.097
44.5	0.645	3326.5	0.092
45.	0.645	3327.	0.094
45.5	0.645	3327.5	0.094
46.	0.646	3328.	0.09
46.5	0.643	3328.5	0.1
47.	0.643	3329.	0.095
47.5	0.641	3329.5	0.09
48.	0.641	3330.	0.092
48.5	0.642	3330.5	0.091
49.	0.641	3331.	0.087
49.5	0.641	3331.5	0.092
50.	0.639	3332.	0.1
50.5	0.639	3332.5	0.091
51.	0.639	3333.	0.094

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
51.5	0.638	3333.5	0.099
52.	0.637	3334.	0.094
52.5	0.638	3334.5	0.093
53.	0.637	3335.	0.092
53.5	0.637	3335.5	0.093
54.	0.636	3336.	0.1
54.5	0.636	3336.5	0.093
55.	0.634	3337.	0.09
55.5	0.633	3337.5	0.091
56.	0.634	3338.	0.093
56.5	0.633	3338.5	0.096
57.	0.633	3339.	0.093
57.5	0.633	3339.5	0.092
58.	0.632	3340.	0.091
58.5	0.632	3340.5	0.091
59.	0.631	3341.	0.093
59.5	0.631	3341.5	0.092
60.	0.63	3342.	0.092
60.5	0.63	3342.5	0.089
61.	0.628	3343.	0.093
61.5	0.629	3343.5	0.096
62.	0.626	3344.	0.09
62.5	0.627	3344.5	0.093
63.	0.627	3345.	0.092
63.5	0.627	3345.5	0.091
64.	0.626	3346.	0.094
64.5	0.625	3346.5	0.098
65.	0.625	3347.	0.096
65.5	0.625	3347.5	0.094
66.	0.622	3348.	0.092
66.5	0.625	3348.5	0.098
67.	0.623	3349.	0.094
67.5	0.623	3349.5	0.099
68.	0.621	3350.	0.088
68.5	0.621	3350.5	0.092
69.	0.622	3351.	0.096
69.5	0.621	3351.5	0.094
70.	0.62	3352.	0.091
70.5	0.62	3352.5	0.097
71.	0.619	3353.	0.086
71.5	0.619	3353.5	0.095
72.	0.619	3354.	0.092
72.5	0.618	3354.5	0.096
73.	0.617	3355.	0.093
73.5	0.616	3355.5	0.093
74.	0.616	3356.	0.089
74.5	0.618	3356.5	0.095
75.	0.615	3357.	0.094
75.5	0.615	3357.5	0.096
76.	0.615	3358.	0.087
76.5	0.615	3358.5	0.092
77.	0.614	3359.	0.097
77.5	0.615	3359.5	0.095
78.	0.613	3360.	0.098
78.5	0.613	3360.5	0.092
79.	0.611	3361.	0.09
79.5	0.613	3361.5	0.093
80.	0.61	3362.	0.093
80.5	0.613	3362.5	0.091
81.	0.61	3363.	0.09
81.5	0.611	3363.5	0.095
82.	0.608	3364.	0.095
82.5	0.61	3364.5	0.09
83.	0.608	3365.	0.089
83.5	0.61	3365.5	0.098
84.	0.608	3366.	0.098
84.5	0.609	3366.5	0.091

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
85.	0.606	3367.	0.095
85.5	0.608	3367.5	0.089
86.	0.605	3368.	0.095
86.5	0.606	3368.5	0.093
87.	0.605	3369.	0.094
87.5	0.605	3369.5	0.092
88.	0.603	3370.	0.093
88.5	0.603	3370.5	0.095
89.	0.603	3371.	0.099
89.5	0.603	3371.5	0.093
90.	0.603	3372.	0.089
90.5	0.601	3372.5	0.093
91.	0.601	3373.	0.097
91.5	0.602	3373.5	0.092
92.	0.599	3374.	0.095
92.5	0.601	3374.5	0.099
93.	0.599	3375.	0.096
93.5	0.6	3375.5	0.09
94.	0.599	3376.	0.089
94.5	0.598	3376.5	0.097
95.	0.598	3377.	0.092
95.5	0.599	3377.5	0.094
96.	0.596	3378.	0.1
96.5	0.598	3378.5	0.095
97.	0.595	3379.	0.098
97.5	0.596	3379.5	0.095
98.	0.596	3380.	0.099
98.5	0.597	3380.5	0.09
99.	0.595	3381.	0.091
99.5	0.595	3381.5	0.093
100.	0.595	3382.	0.092
100.5	0.594	3382.5	0.09
101.	0.594	3383.	0.096
101.5	0.595	3383.5	0.087
102.	0.592	3384.	0.093
102.5	0.593	3384.5	0.095
103.	0.592	3385.	0.094
103.5	0.594	3385.5	0.096
104.	0.591	3386.	0.09
104.5	0.591	3386.5	0.091
105.	0.59	3387.	0.093
105.5	0.592	3387.5	0.097
106.	0.59	3388.	0.094
106.5	0.591	3388.5	0.09
107.	0.589	3389.	0.092
107.5	0.589	3389.5	0.097
108.	0.588	3390.	0.096
108.5	0.589	3390.5	0.095
109.	0.588	3391.	0.093
109.5	0.588	3391.5	0.091
110.	0.587	3392.	0.097
110.5	0.588	3392.5	0.097
111.	0.585	3393.	0.094
111.5	0.587	3393.5	0.095
112.	0.586	3394.	0.092
112.5	0.586	3394.5	0.093
113.	0.583	3395.	0.095
113.5	0.585	3395.5	0.094
114.	0.583	3396.	0.096
114.5	0.585	3396.5	0.093
115.	0.582	3397.	0.09
115.5	0.584	3397.5	0.094
116.	0.582	3398.	0.093
116.5	0.582	3398.5	0.091
117.	0.582	3399.	0.088
117.5	0.582	3399.5	0.091
118.	0.581	3400.	0.097

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
118.5	0.58	3400.5	0.095
119.	0.579	3401.	0.098
119.5	0.581	3401.5	0.095
120.	0.578	3402.	0.091
120.5	0.578	3402.5	0.094
121.	0.578	3403.	0.093
121.5	0.581	3403.5	0.095
122.	0.577	3404.	0.087
122.5	0.578	3404.5	0.094
123.	0.576	3405.	0.097
123.5	0.577	3405.5	0.091
124.	0.575	3406.	0.096
124.5	0.577	3406.5	0.094
125.	0.575	3407.	0.095
125.5	0.575	3407.5	0.091
126.	0.575	3408.	0.098
126.5	0.574	3408.5	0.094
127.	0.572	3409.	0.095
127.5	0.574	3409.5	0.09
128.	0.572	3410.	0.093
128.5	0.573	3410.5	0.096
129.	0.572	3411.	0.1
129.5	0.572	3411.5	0.095
130.	0.571	3412.	0.092
130.5	0.572	3412.5	0.094
131.	0.571	3413.	0.095
131.5	0.572	3413.5	0.093
132.	0.57	3414.	0.093
132.5	0.57	3414.5	0.096
133.	0.57	3415.	0.092
133.5	0.57	3415.5	0.09
134.	0.568	3416.	0.091
134.5	0.568	3416.5	0.093
135.	0.567	3417.	0.093
135.5	0.568	3417.5	0.09
136.	0.566	3418.	0.095
136.5	0.566	3418.5	0.092
137.	0.567	3419.	0.091
137.5	0.567	3419.5	0.093
138.	0.566	3420.	0.093
138.5	0.566	3420.5	0.089
139.	0.564	3421.	0.091
139.5	0.565	3421.5	0.098
140.	0.564	3422.	0.089
140.5	0.565	3422.5	0.095
141.	0.563	3423.	0.09
141.5	0.563	3423.5	0.094
142.	0.562	3424.	0.092
142.5	0.562	3424.5	0.094
143.	0.562	3425.	0.092
143.5	0.564	3425.5	0.092
144.	0.56	3426.	0.089
144.5	0.563	3426.5	0.086
145.	0.561	3427.	0.093
145.5	0.562	3427.5	0.092
146.	0.56	3428.	0.091
146.5	0.562	3428.5	0.095
147.	0.559	3429.	0.098
147.5	0.56	3429.5	0.096
148.	0.559	3430.	0.088
148.5	0.559	3430.5	0.091
149.	0.558	3431.	0.092
149.5	0.559	3431.5	0.091
150.	0.558	3432.	0.104
150.5	0.559	3432.5	0.093
151.	0.558	3433.	0.097
151.5	0.559	3433.5	0.092

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
152.	0.556	3434.	0.093
152.5	0.557	3434.5	0.089
153.	0.556	3435.	0.091
153.5	0.556	3435.5	0.093
154.	0.555	3436.	0.09
154.5	0.556	3436.5	0.093
155.	0.554	3437.	0.096
155.5	0.555	3437.5	0.09
156.	0.553	3438.	0.091
156.5	0.553	3438.5	0.091
157.	0.552	3439.	0.093
157.5	0.555	3439.5	0.091
158.	0.551	3440.	0.091
158.5	0.553	3440.5	0.097
159.	0.551	3441.	0.091
159.5	0.553	3441.5	0.096
160.	0.551	3442.	0.097
160.5	0.552	3442.5	0.098
161.	0.55	3443.	0.094
161.5	0.552	3443.5	0.093
162.	0.548	3444.	0.092
162.5	0.551	3444.5	0.092
163.	0.548	3445.	0.095
163.5	0.549	3445.5	0.093
164.	0.549	3446.	0.092
164.5	0.549	3446.5	0.091
165.	0.547	3447.	0.091
165.5	0.549	3447.5	0.094
166.	0.546	3448.	0.091
166.5	0.548	3448.5	0.09
167.	0.546	3449.	0.087
167.5	0.546	3449.5	0.094
168.	0.547	3450.	0.095
168.5	0.547	3450.5	0.088
169.	0.545	3451.	0.09
169.5	0.545	3451.5	0.093
170.	0.544	3452.	0.094
170.5	0.545	3452.5	0.095
171.	0.543	3453.	0.092
171.5	0.545	3453.5	0.096
172.	0.543	3454.	0.095
172.5	0.544	3454.5	0.093
173.	0.543	3455.	0.086
173.5	0.545	3455.5	0.095
174.	0.542	3456.	0.095
174.5	0.543	3456.5	0.097
175.	0.542	3457.	0.095
175.5	0.543	3457.5	0.089
176.	0.54	3458.	0.089
176.5	0.542	3458.5	0.096
177.	0.54	3459.	0.09
177.5	0.54	3459.5	0.095
178.	0.54	3460.	0.092
178.5	0.539	3460.5	0.092
179.	0.539	3461.	0.087
179.5	0.539	3461.5	0.095
180.	0.539	3462.	0.09
180.5	0.538	3462.5	0.09
181.	0.538	3463.	0.093
181.5	0.539	3463.5	0.088
182.	0.537	3464.	0.096
182.5	0.538	3464.5	0.094
183.	0.536	3465.	0.096
183.5	0.537	3465.5	0.093
184.	0.537	3466.	0.092
184.5	0.536	3466.5	0.098
185.	0.535	3467.	0.088

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
185.5	0.536	3467.5	0.094
186.	0.535	3468.	0.099
186.5	0.536	3468.5	0.088
187.	0.534	3469.	0.089
187.5	0.534	3469.5	0.089
188.	0.533	3470.	0.094
188.5	0.534	3470.5	0.09
189.	0.533	3471.	0.097
189.5	0.534	3471.5	0.092
190.	0.532	3472.	0.093
190.5	0.533	3472.5	0.089
191.	0.532	3473.	0.09
191.5	0.532	3473.5	0.09
192.	0.53	3474.	0.098
192.5	0.533	3474.5	0.099
193.	0.53	3475.	0.088
193.5	0.531	3475.5	0.095
194.	0.529	3476.	0.092
194.5	0.529	3476.5	0.092
195.	0.529	3477.	0.092
195.5	0.531	3477.5	0.089
196.	0.528	3478.	0.092
196.5	0.531	3478.5	0.09
197.	0.527	3479.	0.091
197.5	0.529	3479.5	0.091
198.	0.527	3480.	0.097
198.5	0.528	3480.5	0.092
199.	0.527	3481.	0.091
199.5	0.528	3481.5	0.098
200.	0.526	3482.	0.091
200.5	0.525	3482.5	0.094
201.	0.525	3483.	0.094
201.5	0.526	3483.5	0.094
202.	0.525	3484.	0.098
202.5	0.526	3484.5	0.09
203.	0.524	3485.	0.088
203.5	0.524	3485.5	0.087
204.	0.523	3486.	0.096
204.5	0.525	3486.5	0.091
205.	0.522	3487.	0.096
205.5	0.524	3487.5	0.094
206.	0.523	3488.	0.094
206.5	0.523	3488.5	0.095
207.	0.522	3489.	0.095
207.5	0.523	3489.5	0.087
208.	0.522	3490.	0.098
208.5	0.522	3490.5	0.099
209.	0.521	3491.	0.094
209.5	0.522	3491.5	0.09
210.	0.521	3492.	0.094
210.5	0.521	3492.5	0.093
211.	0.52	3493.	0.093
211.5	0.521	3493.5	0.086
212.	0.519	3494.	0.092
212.5	0.519	3494.5	0.092
213.	0.518	3495.	0.093
213.5	0.519	3495.5	0.09
214.	0.517	3496.	0.091
214.5	0.519	3496.5	0.088
215.	0.517	3497.	0.088
215.5	0.518	3497.5	0.091
216.	0.516	3498.	0.09
216.5	0.518	3498.5	0.095
217.	0.516	3499.	0.092
217.5	0.518	3499.5	0.091
218.	0.514	3500.	0.091
218.5	0.516	3500.5	0.095

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
219.	0.516	3501.	0.09
219.5	0.515	3501.5	0.094
220.	0.514	3502.	0.092
220.5	0.516	3502.5	0.09
221.	0.514	3503.	0.098
221.5	0.516	3503.5	0.092
222.	0.514	3504.	0.092
222.5	0.515	3504.5	0.088
223.	0.512	3505.	0.095
223.5	0.515	3505.5	0.093
224.	0.513	3506.	0.09
224.5	0.512	3506.5	0.093
225.	0.512	3507.	0.092
225.5	0.513	3507.5	0.092
226.	0.512	3508.	0.092
226.5	0.513	3508.5	0.096
227.	0.511	3509.	0.093
227.5	0.513	3509.5	0.09
228.	0.511	3510.	0.094
228.5	0.511	3510.5	0.091
229.	0.509	3511.	0.091
229.5	0.51	3511.5	0.092
230.	0.509	3512.	0.094
230.5	0.509	3512.5	0.093
231.	0.509	3513.	0.09
231.5	0.508	3513.5	0.094
232.	0.508	3514.	0.098
232.5	0.508	3514.5	0.095
233.	0.506	3515.	0.087
233.5	0.509	3515.5	0.091
234.	0.506	3516.	0.091
234.5	0.507	3516.5	0.087
235.	0.506	3517.	0.088
235.5	0.506	3517.5	0.094
236.	0.505	3518.	0.089
236.5	0.506	3518.5	0.093
237.	0.505	3519.	0.093
237.5	0.505	3519.5	0.092
238.	0.505	3520.	0.089
238.5	0.504	3520.5	0.092
239.	0.503	3521.	0.094
239.5	0.504	3521.5	0.093
240.	0.501	3522.	0.089
240.5	0.504	3522.5	0.091
241.	0.502	3523.	0.093
241.5	0.503	3523.5	0.092
242.	0.502	3524.	0.089
242.5	0.502	3524.5	0.09
243.	0.5	3525.	0.091
243.5	0.501	3525.5	0.095
244.	0.501	3526.	0.091
244.5	0.501	3526.5	0.094
245.	0.499	3527.	0.09
245.5	0.502	3527.5	0.094
246.	0.5	3528.	0.09
246.5	0.502	3528.5	0.095
247.	0.499	3529.	0.088
247.5	0.499	3529.5	0.093
248.	0.498	3530.	0.093
248.5	0.501	3530.5	0.095
249.	0.498	3531.	0.086
249.5	0.498	3531.5	0.094
250.	0.496	3532.	0.093
250.5	0.498	3532.5	0.092
251.	0.497	3533.	0.087
251.5	0.496	3533.5	0.093
252.	0.496	3534.	0.094

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
252.5	0.497	3534.5	0.093
253.	0.495	3535.	0.093
253.5	0.497	3535.5	0.092
254.	0.495	3536.	0.093
254.5	0.495	3536.5	0.091
255.	0.494	3537.	0.093
255.5	0.496	3537.5	0.085
256.	0.494	3538.	0.094
256.5	0.495	3538.5	0.093
257.	0.493	3539.	0.091
257.5	0.493	3539.5	0.095
258.	0.493	3540.	0.091
258.5	0.493	3540.5	0.097
259.	0.492	3541.	0.088
259.5	0.492	3541.5	0.097
260.	0.491	3542.	0.092
260.5	0.492	3542.5	0.092
261.	0.49	3543.	0.09
261.5	0.492	3543.5	0.086
262.	0.491	3544.	0.095
262.5	0.491	3544.5	0.092
263.	0.49	3545.	0.093
263.5	0.491	3545.5	0.098
264.	0.49	3546.	0.097
264.5	0.49	3546.5	0.091
265.	0.488	3547.	0.091
265.5	0.49	3547.5	0.094
266.	0.488	3548.	0.094
266.5	0.488	3548.5	0.093
267.	0.488	3549.	0.093
267.5	0.488	3549.5	0.093
268.	0.487	3550.	0.088
268.5	0.489	3550.5	0.086
269.	0.487	3551.	0.093
269.5	0.488	3551.5	0.089
270.	0.487	3552.	0.09
270.5	0.488	3552.5	0.09
271.	0.487	3553.	0.095
271.5	0.487	3553.5	0.095
272.	0.486	3554.	0.092
272.5	0.486	3554.5	0.093
273.	0.484	3555.	0.091
273.5	0.486	3555.5	0.094
274.	0.486	3556.	0.092
274.5	0.485	3556.5	0.09
275.	0.485	3557.	0.09
275.5	0.485	3557.5	0.089
276.	0.484	3558.	0.094
276.5	0.484	3558.5	0.092
277.	0.485	3559.	0.089
277.5	0.484	3559.5	0.084
278.	0.484	3560.	0.091
278.5	0.484	3560.5	0.089
279.	0.483	3561.	0.095
279.5	0.483	3561.5	0.09
280.	0.483	3562.	0.091
280.5	0.483	3562.5	0.09
281.	0.482	3563.	0.093
281.5	0.484	3563.5	0.092
282.	0.481	3564.	0.093
282.5	0.482	3564.5	0.094
283.	0.48	3565.	0.092
283.5	0.481	3565.5	0.09
284.	0.481	3566.	0.093
284.5	0.481	3566.5	0.093
285.	0.479	3567.	0.091
285.5	0.481	3567.5	0.091

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
286.	0.479	3568.	0.093
286.5	0.48	3568.5	0.093
287.	0.478	3569.	0.092
287.5	0.479	3569.5	0.094
288.	0.479	3570.	0.086
288.5	0.479	3570.5	0.087
289.	0.478	3571.	0.089
289.5	0.479	3571.5	0.09
290.	0.478	3572.	0.086
290.5	0.478	3572.5	0.087
291.	0.477	3573.	0.09
291.5	0.478	3573.5	0.087
292.	0.476	3574.	0.098
292.5	0.478	3574.5	0.091
293.	0.476	3575.	0.089
293.5	0.476	3575.5	0.092
294.	0.475	3576.	0.094
294.5	0.476	3576.5	0.089
295.	0.474	3577.	0.085
295.5	0.476	3577.5	0.093
296.	0.474	3578.	0.092
296.5	0.475	3578.5	0.082
297.	0.473	3579.	0.093
297.5	0.475	3579.5	0.09
298.	0.473	3580.	0.086
298.5	0.474	3580.5	0.091
299.	0.473	3581.	0.089
299.5	0.474	3581.5	0.091
300.	0.473	3582.	0.09
300.5	0.473	3582.5	0.088
301.	0.473	3583.	0.084
301.5	0.473	3583.5	0.094
302.	0.473	3584.	0.088
302.5	0.473	3584.5	0.09
303.	0.471	3585.	0.086
303.5	0.472	3585.5	0.087
304.	0.471	3586.	0.088
304.5	0.472	3586.5	0.088
305.	0.47	3587.	0.088
305.5	0.471	3587.5	0.089
306.	0.47	3588.	0.096
306.5	0.47	3588.5	0.088
307.	0.469	3589.	0.087
307.5	0.47	3589.5	0.09
308.	0.468	3590.	0.089
308.5	0.47	3590.5	0.092
309.	0.468	3591.	0.087
309.5	0.47	3591.5	0.089
310.	0.468	3592.	0.097
310.5	0.468	3592.5	0.093
311.	0.467	3593.	0.093
311.5	0.468	3593.5	0.086
312.	0.466	3594.	0.085
312.5	0.466	3594.5	0.086
313.	0.466	3595.	0.09
313.5	0.467	3595.5	0.091
314.	0.466	3596.	0.086
314.5	0.467	3596.5	0.085
315.	0.466	3597.	0.088
315.5	0.465	3597.5	0.092
316.	0.465	3598.	0.091
316.5	0.465	3598.5	0.088
317.	0.464	3599.	0.086
317.5	0.466	3599.5	0.087
318.	0.463	3600.	0.084
318.5	0.466	3600.5	0.092
319.	0.462	3601.	0.088

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
319.5	0.464	3601.5	0.086
320.	0.463	3602.	0.085
320.5	0.465	3602.5	0.09
321.	0.462	3603.	0.089
321.5	0.464	3603.5	0.091
322.	0.462	3604.	0.087
322.5	0.463	3604.5	0.087
323.	0.462	3605.	0.086
323.5	0.462	3605.5	0.09
324.	0.459	3606.	0.09
324.5	0.462	3606.5	0.092
325.	0.461	3607.	0.089
325.5	0.462	3607.5	0.086
326.	0.46	3608.	0.088
326.5	0.46	3608.5	0.086
327.	0.459	3609.	0.088
327.5	0.46	3609.5	0.092
328.	0.458	3610.	0.093
328.5	0.462	3610.5	0.091
329.	0.463	3611.	0.089
329.5	0.462	3611.5	0.089
330.	0.46	3612.	0.091
330.5	0.456	3612.5	0.09
331.	0.46	3613.	0.094
331.5	0.458	3613.5	0.083
332.	0.456	3614.	0.087
332.5	0.461	3614.5	0.086
333.	0.457	3615.	0.091
333.5	0.463	3615.5	0.086
334.	0.458	3616.	0.091
334.5	0.456	3616.5	0.083
335.	0.455	3617.	0.087
335.5	0.451	3617.5	0.087
336.	0.465	3618.	0.089
336.5	0.454	3618.5	0.088
337.	0.453	3619.	0.088
337.5	0.461	3619.5	0.091
338.	0.452	3620.	0.09
338.5	0.454	3620.5	0.084
339.	0.452	3621.	0.093
339.5	0.453	3621.5	0.086
340.	0.456	3622.	0.087
340.5	0.454	3622.5	0.087
341.	0.454	3623.	0.089
341.5	0.451	3623.5	0.087
342.	0.456	3624.	0.095
342.5	0.448	3624.5	0.091
343.	0.455	3625.	0.093
343.5	0.456	3625.5	0.086
344.	0.458	3626.	0.091
344.5	0.451	3626.5	0.086
345.	0.452	3627.	0.091
345.5	0.449	3627.5	0.085
346.	0.448	3628.	0.095
346.5	0.453	3628.5	0.087
347.	0.455	3629.	0.089
347.5	0.449	3629.5	0.089
348.	0.45	3630.	0.09
348.5	0.455	3630.5	0.084
349.	0.455	3631.	0.087
349.5	0.453	3631.5	0.086
350.	0.453	3632.	0.086
350.5	0.452	3632.5	0.082
351.	0.451	3633.	0.094
351.5	0.451	3633.5	0.087
352.	0.449	3634.	0.095
352.5	0.452	3634.5	0.092

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
353.	0.444	3635.	0.088
353.5	0.448	3635.5	0.095
354.	0.447	3636.	0.087
354.5	0.445	3636.5	0.088
355.	0.445	3637.	0.088
355.5	0.447	3637.5	0.089
356.	0.446	3638.	0.096
356.5	0.447	3638.5	0.085
357.	0.45	3639.	0.091
357.5	0.447	3639.5	0.091
358.	0.447	3640.	0.089
358.5	0.446	3640.5	0.087
359.	0.444	3641.	0.087
359.5	0.448	3641.5	0.085
360.	0.445	3642.	0.093
360.5	0.439	3642.5	0.093
361.	0.448	3643.	0.095
361.5	0.448	3643.5	0.088
362.	0.444	3644.	0.087
362.5	0.445	3644.5	0.082
363.	0.435	3645.	0.083
363.5	0.441	3645.5	0.089
364.	0.444	3646.	0.09
364.5	0.443	3646.5	0.089
365.	0.445	3647.	0.09
365.5	0.448	3647.5	0.085
366.	0.444	3648.	0.086
366.5	0.448	3648.5	0.09
367.	0.441	3649.	0.085
367.5	0.442	3649.5	0.091
368.	0.444	3650.	0.088
368.5	0.444	3650.5	0.092
369.	0.442	3651.	0.086
369.5	0.441	3651.5	0.092
370.	0.443	3652.	0.086
370.5	0.442	3652.5	0.09
371.	0.446	3653.	0.084
371.5	0.439	3653.5	0.09
372.	0.441	3654.	0.093
372.5	0.441	3654.5	0.092
373.	0.442	3655.	0.086
373.5	0.442	3655.5	0.093
374.	0.437	3656.	0.083
374.5	0.439	3656.5	0.087
375.	0.44	3657.	0.089
375.5	0.44	3657.5	0.089
376.	0.437	3658.	0.089
376.5	0.439	3658.5	0.089
377.	0.44	3659.	0.089
377.5	0.439	3659.5	0.09
378.	0.443	3660.	0.084
378.5	0.439	3660.5	0.087
379.	0.435	3661.	0.087
379.5	0.44	3661.5	0.091
380.	0.435	3662.	0.088
380.5	0.433	3662.5	0.091
381.	0.439	3663.	0.091
381.5	0.438	3663.5	0.081
382.	0.435	3664.	0.084
382.5	0.439	3664.5	0.089
383.	0.436	3665.	0.086
383.5	0.446	3665.5	0.085
384.	0.434	3666.	0.092
384.5	0.435	3666.5	0.088
385.	0.438	3667.	0.086
385.5	0.43	3667.5	0.09
386.	0.439	3668.	0.088

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
386.5	0.435	3668.5	0.086
387.	0.43	3669.	0.091
387.5	0.431	3669.5	0.084
388.	0.436	3670.	0.083
388.5	0.429	3670.5	0.083
389.	0.43	3671.	0.089
389.5	0.435	3671.5	0.087
390.	0.433	3672.	0.087
390.5	0.431	3672.5	0.092
391.	0.435	3673.	0.086
391.5	0.432	3673.5	0.085
392.	0.433	3674.	0.093
392.5	0.437	3674.5	0.084
393.	0.429	3675.	0.086
393.5	0.432	3675.5	0.088
394.	0.429	3676.	0.088
394.5	0.436	3676.5	0.088
395.	0.427	3677.	0.092
395.5	0.429	3677.5	0.089
396.	0.429	3678.	0.086
396.5	0.427	3678.5	0.087
397.	0.429	3679.	0.084
397.5	0.435	3679.5	0.089
398.	0.431	3680.	0.086
398.5	0.428	3680.5	0.09
399.	0.428	3681.	0.088
399.5	0.43	3681.5	0.086
400.	0.434	3682.	0.081
400.5	0.433	3682.5	0.088
401.	0.43	3683.	0.089
401.5	0.43	3683.5	0.086
402.	0.43	3684.	0.087
402.5	0.43	3684.5	0.087
403.	0.428	3685.	0.086
403.5	0.43	3685.5	0.085
404.	0.427	3686.	0.085
404.5	0.428	3686.5	0.09
405.	0.429	3687.	0.091
405.5	0.429	3687.5	0.089
406.	0.423	3688.	0.089
406.5	0.429	3688.5	0.085
407.	0.431	3689.	0.089
407.5	0.422	3689.5	0.09
408.	0.424	3690.	0.088
408.5	0.428	3690.5	0.089
409.	0.427	3691.	0.087
409.5	0.426	3691.5	0.089
410.	0.426	3692.	0.082
410.5	0.428	3692.5	0.09
411.	0.426	3693.	0.086
411.5	0.424	3693.5	0.085
412.	0.423	3694.	0.088
412.5	0.428	3694.5	0.089
413.	0.42	3695.	0.087
413.5	0.424	3695.5	0.087
414.	0.42	3696.	0.085
414.5	0.425	3696.5	0.084
415.	0.425	3697.	0.09
415.5	0.428	3697.5	0.088
416.	0.418	3698.	0.086
416.5	0.423	3698.5	0.09
417.	0.424	3699.	0.091
417.5	0.421	3699.5	0.084
418.	0.421	3700.	0.087
418.5	0.423	3700.5	0.089
419.	0.423	3701.	0.091
419.5	0.423	3701.5	0.084

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
420.	0.422	3702.	0.085
420.5	0.424	3702.5	0.087
421.	0.422	3703.	0.088
421.5	0.425	3703.5	0.093
422.	0.42	3704.	0.091
422.5	0.422	3704.5	0.091
423.	0.42	3705.	0.092
423.5	0.423	3705.5	0.086
424.	0.421	3706.	0.09
424.5	0.423	3706.5	0.087
425.	0.419	3707.	0.084
425.5	0.424	3707.5	0.087
426.	0.423	3708.	0.083
426.5	0.416	3708.5	0.082
427.	0.423	3709.	0.088
427.5	0.418	3709.5	0.091
428.	0.418	3710.	0.086
428.5	0.421	3710.5	0.087
429.	0.418	3711.	0.089
429.5	0.418	3711.5	0.093
430.	0.418	3712.	0.088
430.5	0.418	3712.5	0.088
431.	0.415	3713.	0.084
431.5	0.421	3713.5	0.083
432.	0.419	3714.	0.091
432.5	0.416	3714.5	0.085
433.	0.411	3715.	0.085
433.5	0.42	3715.5	0.085
434.	0.417	3716.	0.094
434.5	0.413	3716.5	0.082
435.	0.415	3717.	0.087
435.5	0.42	3717.5	0.086
436.	0.421	3718.	0.083
436.5	0.418	3718.5	0.085
437.	0.417	3719.	0.089
437.5	0.413	3719.5	0.087
438.	0.415	3720.	0.088
438.5	0.406	3720.5	0.086
439.	0.413	3721.	0.096
439.5	0.417	3721.5	0.084
440.	0.419	3722.	0.087
440.5	0.42	3722.5	0.084
441.	0.422	3723.	0.091
441.5	0.415	3723.5	0.087
442.	0.414	3724.	0.089
442.5	0.412	3724.5	0.085
443.	0.412	3725.	0.089
443.5	0.415	3725.5	0.088
444.	0.415	3726.	0.085
444.5	0.419	3726.5	0.09
445.	0.412	3727.	0.089
445.5	0.409	3727.5	0.086
446.	0.405	3728.	0.086
446.5	0.417	3728.5	0.082
447.	0.413	3729.	0.091
447.5	0.409	3729.5	0.086
448.	0.413	3730.	0.089
448.5	0.41	3730.5	0.083
449.	0.407	3731.	0.084
449.5	0.414	3731.5	0.087
450.	0.414	3732.	0.086
450.5	0.41	3732.5	0.088
451.	0.406	3733.	0.085
451.5	0.413	3733.5	0.087
452.	0.41	3734.	0.089
452.5	0.412	3734.5	0.088
453.	0.41	3735.	0.086

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
453.5	0.409	3735.5	0.084
454.	0.408	3736.	0.088
454.5	0.414	3736.5	0.085
455.	0.409	3737.	0.091
455.5	0.411	3737.5	0.083
456.	0.407	3738.	0.087
456.5	0.413	3738.5	0.087
457.	0.408	3739.	0.087
457.5	0.412	3739.5	0.083
458.	0.409	3740.	0.082
458.5	0.41	3740.5	0.085
459.	0.409	3741.	0.084
459.5	0.408	3741.5	0.086
460.	0.408	3742.	0.09
460.5	0.406	3742.5	0.085
461.	0.407	3743.	0.089
461.5	0.406	3743.5	0.087
462.	0.403	3744.	0.089
462.5	0.405	3744.5	0.086
463.	0.403	3745.	0.088
463.5	0.405	3745.5	0.093
464.	0.405	3746.	0.086
464.5	0.406	3746.5	0.083
465.	0.4	3747.	0.085
465.5	0.404	3747.5	0.089
466.	0.402	3748.	0.09
466.5	0.404	3748.5	0.086
467.	0.406	3749.	0.083
467.5	0.404	3749.5	0.088
468.	0.405	3750.	0.088
468.5	0.404	3750.5	0.087
469.	0.408	3751.	0.093
469.5	0.406	3751.5	0.086
470.	0.408	3752.	0.09
470.5	0.403	3752.5	0.087
471.	0.4	3753.	0.089
471.5	0.398	3753.5	0.087
472.	0.402	3754.	0.087
472.5	0.406	3754.5	0.087
473.	0.403	3755.	0.09
473.5	0.404	3755.5	0.092
474.	0.406	3756.	0.087
474.5	0.402	3756.5	0.088
475.	0.404	3757.	0.084
475.5	0.404	3757.5	0.084
476.	0.401	3758.	0.092
476.5	0.403	3758.5	0.083
477.	0.4	3759.	0.089
477.5	0.4	3759.5	0.086
478.	0.404	3760.	0.085
478.5	0.401	3760.5	0.088
479.	0.398	3761.	0.086
479.5	0.405	3761.5	0.081
480.	0.403	3762.	0.09
480.5	0.402	3762.5	0.087
481.	0.398	3763.	0.088
481.5	0.404	3763.5	0.086
482.	0.399	3764.	0.087
482.5	0.402	3764.5	0.084
483.	0.399	3765.	0.078
483.5	0.398	3765.5	0.087
484.	0.395	3766.	0.093
484.5	0.399	3766.5	0.085
485.	0.399	3767.	0.089
485.5	0.396	3767.5	0.081
486.	0.397	3768.	0.087
486.5	0.402	3768.5	0.083

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
487.	0.396	3769.	0.089
487.5	0.396	3769.5	0.089
488.	0.4	3770.	0.088
488.5	0.397	3770.5	0.086
489.	0.395	3771.	0.085
489.5	0.398	3771.5	0.087
490.	0.392	3772.	0.085
490.5	0.398	3772.5	0.088
491.	0.396	3773.	0.085
491.5	0.396	3773.5	0.083
492.	0.393	3774.	0.086
492.5	0.402	3774.5	0.086
493.	0.398	3775.	0.081
493.5	0.389	3775.5	0.085
494.	0.394	3776.	0.087
494.5	0.396	3776.5	0.088
495.	0.395	3777.	0.086
495.5	0.397	3777.5	0.083
496.	0.387	3778.	0.088
496.5	0.393	3778.5	0.082
497.	0.396	3779.	0.085
497.5	0.397	3779.5	0.084
498.	0.39	3780.	0.089
498.5	0.395	3780.5	0.083
499.	0.389	3781.	0.087
499.5	0.394	3781.5	0.086
500.	0.399	3782.	0.09
500.5	0.393	3782.5	0.086
501.	0.391	3783.	0.087
501.5	0.398	3783.5	0.089
502.	0.394	3784.	0.087
502.5	0.389	3784.5	0.084
503.	0.394	3785.	0.089
503.5	0.391	3785.5	0.088
504.	0.394	3786.	0.09
504.5	0.39	3786.5	0.084
505.	0.39	3787.	0.083
505.5	0.389	3787.5	0.087
506.	0.395	3788.	0.091
506.5	0.395	3788.5	0.085
507.	0.391	3789.	0.081
507.5	0.386	3789.5	0.083
508.	0.389	3790.	0.082
508.5	0.392	3790.5	0.085
509.	0.389	3791.	0.089
509.5	0.392	3791.5	0.083
510.	0.391	3792.	0.083
510.5	0.387	3792.5	0.085
511.	0.385	3793.	0.089
511.5	0.392	3793.5	0.088
512.	0.39	3794.	0.09
512.5	0.391	3794.5	0.08
513.	0.389	3795.	0.085
513.5	0.383	3795.5	0.089
514.	0.386	3796.	0.091
514.5	0.385	3796.5	0.081
515.	0.385	3797.	0.089
515.5	0.386	3797.5	0.082
516.	0.388	3798.	0.08
516.5	0.388	3798.5	0.091
517.	0.389	3799.	0.083
517.5	0.386	3799.5	0.091
518.	0.386	3800.	0.09
518.5	0.388	3800.5	0.086
519.	0.388	3801.	0.086
519.5	0.388	3801.5	0.082
520.	0.386	3802.	0.089

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
520.5	0.387	3802.5	0.087
521.	0.382	3803.	0.09
521.5	0.39	3803.5	0.084
522.	0.389	3804.	0.089
522.5	0.383	3804.5	0.086
523.	0.39	3805.	0.08
523.5	0.384	3805.5	0.088
524.	0.388	3806.	0.085
524.5	0.389	3806.5	0.084
525.	0.39	3807.	0.087
525.5	0.385	3807.5	0.087
526.	0.386	3808.	0.089
526.5	0.384	3808.5	0.088
527.	0.385	3809.	0.088
527.5	0.387	3809.5	0.087
528.	0.381	3810.	0.084
528.5	0.385	3810.5	0.083
529.	0.384	3811.	0.083
529.5	0.382	3811.5	0.086
530.	0.387	3812.	0.087
530.5	0.386	3812.5	0.083
531.	0.384	3813.	0.084
531.5	0.385	3813.5	0.085
532.	0.38	3814.	0.085
532.5	0.385	3814.5	0.087
533.	0.382	3815.	0.08
533.5	0.382	3815.5	0.085
534.	0.378	3816.	0.084
534.5	0.382	3816.5	0.086
535.	0.381	3817.	0.083
535.5	0.384	3817.5	0.083
536.	0.376	3818.	0.083
536.5	0.379	3818.5	0.085
537.	0.387	3819.	0.083
537.5	0.375	3819.5	0.084
538.	0.376	3820.	0.085
538.5	0.382	3820.5	0.086
539.	0.382	3821.	0.085
539.5	0.377	3821.5	0.086
540.	0.379	3822.	0.087
540.5	0.381	3822.5	0.084
541.	0.38	3823.	0.084
541.5	0.378	3823.5	0.085
542.	0.372	3824.	0.086
542.5	0.382	3824.5	0.082
543.	0.372	3825.	0.083
543.5	0.378	3825.5	0.084
544.	0.376	3826.	0.085
544.5	0.376	3826.5	0.083
545.	0.379	3827.	0.088
545.5	0.379	3827.5	0.082
546.	0.378	3828.	0.081
546.5	0.377	3828.5	0.084
547.	0.378	3829.	0.084
547.5	0.377	3829.5	0.088
548.	0.377	3830.	0.088
548.5	0.373	3830.5	0.091
549.	0.38	3831.	0.089
549.5	0.379	3831.5	0.088
550.	0.382	3832.	0.083
550.5	0.376	3832.5	0.087
551.	0.374	3833.	0.082
551.5	0.379	3833.5	0.088
552.	0.38	3834.	0.09
552.5	0.375	3834.5	0.081
553.	0.379	3835.	0.083
553.5	0.381	3835.5	0.085

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
554.	0.371	3836.	0.084
554.5	0.371	3836.5	0.083
555.	0.374	3837.	0.086
555.5	0.375	3837.5	0.088
556.	0.376	3838.	0.082
556.5	0.375	3838.5	0.083
557.	0.378	3839.	0.08
557.5	0.378	3839.5	0.083
558.	0.372	3840.	0.081
558.5	0.378	3840.5	0.086
559.	0.367	3841.	0.084
559.5	0.374	3841.5	0.085
560.	0.376	3842.	0.081
560.5	0.375	3842.5	0.082
561.	0.38	3843.	0.08
561.5	0.373	3843.5	0.086
562.	0.373	3844.	0.079
562.5	0.373	3844.5	0.088
563.	0.374	3845.	0.084
563.5	0.369	3845.5	0.088
564.	0.371	3846.	0.08
564.5	0.378	3846.5	0.081
565.	0.373	3847.	0.083
565.5	0.369	3847.5	0.087
566.	0.372	3848.	0.088
566.5	0.374	3848.5	0.081
567.	0.365	3849.	0.087
567.5	0.373	3849.5	0.081
568.	0.375	3850.	0.085
568.5	0.373	3850.5	0.08
569.	0.373	3851.	0.082
569.5	0.376	3851.5	0.082
570.	0.368	3852.	0.084
570.5	0.369	3852.5	0.086
571.	0.367	3853.	0.083
571.5	0.368	3853.5	0.086
572.	0.371	3854.	0.083
572.5	0.378	3854.5	0.087
573.	0.368	3855.	0.086
573.5	0.372	3855.5	0.089
574.	0.37	3856.	0.081
574.5	0.37	3856.5	0.085
575.	0.372	3857.	0.084
575.5	0.374	3857.5	0.09
576.	0.374	3858.	0.088
576.5	0.369	3858.5	0.087
577.	0.371	3859.	0.08
577.5	0.365	3859.5	0.08
578.	0.37	3860.	0.082
578.5	0.369	3860.5	0.088
579.	0.366	3861.	0.085
579.5	0.37	3861.5	0.081
580.	0.367	3862.	0.091
580.5	0.371	3862.5	0.081
581.	0.37	3863.	0.084
581.5	0.371	3863.5	0.084
582.	0.37	3864.	0.088
582.5	0.373	3864.5	0.085
583.	0.369	3865.	0.086
583.5	0.364	3865.5	0.086
584.	0.364	3866.	0.082
584.5	0.367	3866.5	0.084
585.	0.366	3867.	0.08
585.5	0.365	3867.5	0.086
586.	0.366	3868.	0.081
586.5	0.367	3868.5	0.083
587.	0.367	3869.	0.082

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
587.5	0.368	3869.5	0.085
588.	0.361	3870.	0.086
588.5	0.37	3870.5	0.089
589.	0.364	3871.	0.084
589.5	0.366	3871.5	0.078
590.	0.362	3872.	0.079
590.5	0.365	3872.5	0.074
591.	0.365	3873.	0.088
591.5	0.365	3873.5	0.087
592.	0.37	3874.	0.086
592.5	0.364	3874.5	0.085
593.	0.359	3875.	0.079
593.5	0.364	3875.5	0.084
594.	0.369	3876.	0.085
594.5	0.364	3876.5	0.082
595.	0.366	3877.	0.085
595.5	0.367	3877.5	0.078
596.	0.363	3878.	0.076
596.5	0.362	3878.5	0.083
597.	0.363	3879.	0.079
597.5	0.361	3879.5	0.084
598.	0.364	3880.	0.079
598.5	0.366	3880.5	0.085
599.	0.366	3881.	0.083
599.5	0.358	3881.5	0.08
600.	0.36	3882.	0.085
600.5	0.36	3882.5	0.078
601.	0.358	3883.	0.082
601.5	0.361	3883.5	0.081
602.	0.363	3884.	0.083
602.5	0.367	3884.5	0.083
603.	0.363	3885.	0.082
603.5	0.363	3885.5	0.082
604.	0.361	3886.	0.086
604.5	0.363	3886.5	0.088
605.	0.363	3887.	0.08
605.5	0.366	3887.5	0.079
606.	0.365	3888.	0.082
606.5	0.362	3888.5	0.078
607.	0.36	3889.	0.081
607.5	0.363	3889.5	0.081
608.	0.358	3890.	0.087
608.5	0.361	3890.5	0.08
609.	0.36	3891.	0.081
609.5	0.362	3891.5	0.082
610.	0.359	3892.	0.083
610.5	0.356	3892.5	0.077
611.	0.355	3893.	0.084
611.5	0.355	3893.5	0.082
612.	0.361	3894.	0.082
612.5	0.359	3894.5	0.08
613.	0.361	3895.	0.078
613.5	0.365	3895.5	0.082
614.	0.356	3896.	0.085
614.5	0.354	3896.5	0.08
615.	0.355	3897.	0.085
615.5	0.36	3897.5	0.081
616.	0.356	3898.	0.081
616.5	0.357	3898.5	0.079
617.	0.357	3899.	0.084
617.5	0.358	3899.5	0.079
618.	0.36	3900.	0.084
618.5	0.358	3900.5	0.082
619.	0.36	3901.	0.08
619.5	0.361	3901.5	0.081
620.	0.358	3902.	0.084
620.5	0.36	3902.5	0.082

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
621.	0.362	3903.	0.087
621.5	0.357	3903.5	0.082
622.	0.353	3904.	0.08
622.5	0.35	3904.5	0.079
623.	0.355	3905.	0.079
623.5	0.359	3905.5	0.075
624.	0.354	3906.	0.085
624.5	0.356	3906.5	0.089
625.	0.351	3907.	0.084
625.5	0.36	3907.5	0.083
626.	0.353	3908.	0.084
626.5	0.355	3908.5	0.084
627.	0.355	3909.	0.083
627.5	0.356	3909.5	0.081
628.	0.35	3910.	0.079
628.5	0.354	3910.5	0.08
629.	0.354	3911.	0.086
629.5	0.353	3911.5	0.076
630.	0.355	3912.	0.076
630.5	0.355	3912.5	0.085
631.	0.353	3913.	0.081
631.5	0.359	3913.5	0.078
632.	0.354	3914.	0.078
632.5	0.352	3914.5	0.091
633.	0.351	3915.	0.079
633.5	0.35	3915.5	0.086
634.	0.356	3916.	0.081
634.5	0.359	3916.5	0.077
635.	0.354	3917.	0.081
635.5	0.355	3917.5	0.083
636.	0.352	3918.	0.082
636.5	0.354	3918.5	0.081
637.	0.352	3919.	0.082
637.5	0.353	3919.5	0.084
638.	0.347	3920.	0.077
638.5	0.353	3920.5	0.082
639.	0.351	3921.	0.082
639.5	0.356	3921.5	0.075
640.	0.349	3922.	0.083
640.5	0.35	3922.5	0.085
641.	0.345	3923.	0.08
641.5	0.348	3923.5	0.084
642.	0.353	3924.	0.079
642.5	0.349	3924.5	0.078
643.	0.347	3925.	0.086
643.5	0.352	3925.5	0.078
644.	0.345	3926.	0.083
644.5	0.346	3926.5	0.083
645.	0.351	3927.	0.078
645.5	0.348	3927.5	0.083
646.	0.347	3928.	0.083
646.5	0.346	3928.5	0.084
647.	0.342	3929.	0.079
647.5	0.349	3929.5	0.085
648.	0.349	3930.	0.078
648.5	0.351	3930.5	0.084
649.	0.347	3931.	0.082
649.5	0.347	3931.5	0.087
650.	0.341	3932.	0.08
650.5	0.352	3932.5	0.082
651.	0.345	3933.	0.081
651.5	0.346	3933.5	0.081
652.	0.344	3934.	0.077
652.5	0.346	3934.5	0.084
653.	0.346	3935.	0.085
653.5	0.344	3935.5	0.081
654.	0.346	3936.	0.079

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
654.5	0.349	3936.5	0.081
655.	0.353	3937.	0.079
655.5	0.348	3937.5	0.082
656.	0.349	3938.	0.077
656.5	0.348	3938.5	0.08
657.	0.344	3939.	0.081
657.5	0.347	3939.5	0.083
658.	0.344	3940.	0.074
658.5	0.342	3940.5	0.085
659.	0.347	3941.	0.08
659.5	0.346	3941.5	0.081
660.	0.344	3942.	0.08
660.5	0.347	3942.5	0.076
661.	0.346	3943.	0.082
661.5	0.348	3943.5	0.081
662.	0.343	3944.	0.08
662.5	0.348	3944.5	0.079
663.	0.343	3945.	0.076
663.5	0.347	3945.5	0.084
664.	0.343	3946.	0.081
664.5	0.345	3946.5	0.083
665.	0.337	3947.	0.083
665.5	0.343	3947.5	0.075
666.	0.35	3948.	0.082
666.5	0.344	3948.5	0.078
667.	0.341	3949.	0.083
667.5	0.345	3949.5	0.08
668.	0.342	3950.	0.076
668.5	0.345	3950.5	0.077
669.	0.342	3951.	0.079
669.5	0.343	3951.5	0.078
670.	0.339	3952.	0.082
670.5	0.346	3952.5	0.08
671.	0.346	3953.	0.081
671.5	0.345	3953.5	0.082
672.	0.339	3954.	0.082
672.5	0.341	3954.5	0.086
673.	0.338	3955.	0.081
673.5	0.341	3955.5	0.089
674.	0.343	3956.	0.079
674.5	0.346	3956.5	0.08
675.	0.341	3957.	0.085
675.5	0.348	3957.5	0.083
676.	0.338	3958.	0.081
676.5	0.339	3958.5	0.085
677.	0.338	3959.	0.086
677.5	0.338	3959.5	0.083
678.	0.333	3960.	0.082
678.5	0.341	3960.5	0.08
679.	0.339	3961.	0.078
679.5	0.341	3961.5	0.081
680.	0.341	3962.	0.085
680.5	0.334	3962.5	0.079
681.	0.338	3963.	0.08
681.5	0.342	3963.5	0.085
682.	0.34	3964.	0.08
682.5	0.339	3964.5	0.081
683.	0.336	3965.	0.077
683.5	0.341	3965.5	0.083
684.	0.331	3966.	0.088
684.5	0.342	3966.5	0.08
685.	0.337	3967.	0.082
685.5	0.332	3967.5	0.081
686.	0.336	3968.	0.083
686.5	0.337	3968.5	0.081
687.	0.332	3969.	0.091
687.5	0.337	3969.5	0.077

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
688.	0.335	3970.	0.08
688.5	0.336	3970.5	0.078
689.	0.342	3971.	0.082
689.5	0.335	3971.5	0.081
690.	0.338	3972.	0.076
690.5	0.337	3972.5	0.078
691.	0.336	3973.	0.081
691.5	0.337	3973.5	0.081
692.	0.335	3974.	0.082
692.5	0.339	3974.5	0.079
693.	0.336	3975.	0.078
693.5	0.337	3975.5	0.083
694.	0.337	3976.	0.079
694.5	0.338	3976.5	0.079
695.	0.334	3977.	0.074
695.5	0.334	3977.5	0.076
696.	0.334	3978.	0.08
696.5	0.334	3978.5	0.084
697.	0.336	3979.	0.079
697.5	0.337	3979.5	0.082
698.	0.329	3980.	0.082
698.5	0.334	3980.5	0.08
699.	0.339	3981.	0.081
699.5	0.337	3981.5	0.082
700.	0.335	3982.	0.08
700.5	0.334	3982.5	0.079
701.	0.331	3983.	0.081
701.5	0.336	3983.5	0.082
702.	0.33	3984.	0.075
702.5	0.333	3984.5	0.077
703.	0.336	3985.	0.077
703.5	0.341	3985.5	0.083
704.	0.333	3986.	0.074
704.5	0.335	3986.5	0.083
705.	0.334	3987.	0.083
705.5	0.336	3987.5	0.078
706.	0.335	3988.	0.078
706.5	0.334	3988.5	0.077
707.	0.33	3989.	0.082
707.5	0.332	3989.5	0.08
708.	0.329	3990.	0.076
708.5	0.333	3990.5	0.078
709.	0.328	3991.	0.081
709.5	0.337	3991.5	0.083
710.	0.329	3992.	0.083
710.5	0.336	3992.5	0.077
711.	0.332	3993.	0.078
711.5	0.33	3993.5	0.079
712.	0.331	3994.	0.08
712.5	0.333	3994.5	0.08
713.	0.329	3995.	0.083
713.5	0.33	3995.5	0.078
714.	0.324	3996.	0.084
714.5	0.331	3996.5	0.078
715.	0.332	3997.	0.086
715.5	0.334	3997.5	0.082
716.	0.325	3998.	0.081
716.5	0.323	3998.5	0.079
717.	0.331	3999.	0.079
717.5	0.332	3999.5	0.08
718.	0.332	4000.	0.08
718.5	0.326	4000.5	0.082
719.	0.334	4001.	0.081
719.5	0.329	4001.5	0.081
720.	0.332	4002.	0.076
720.5	0.328	4002.5	0.079
721.	0.326	4003.	0.08

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
721.5	0.33	4003.5	0.078
722.	0.33	4004.	0.082
722.5	0.326	4004.5	0.077
723.	0.324	4005.	0.074
723.5	0.33	4005.5	0.08
724.	0.325	4006.	0.082
724.5	0.33	4006.5	0.078
725.	0.323	4007.	0.074
725.5	0.323	4007.5	0.076
726.	0.324	4008.	0.079
726.5	0.325	4008.5	0.08
727.	0.327	4009.	0.081
727.5	0.331	4009.5	0.078
728.	0.324	4010.	0.078
728.5	0.332	4010.5	0.076
729.	0.327	4011.	0.079
729.5	0.329	4011.5	0.073
730.	0.322	4012.	0.083
730.5	0.331	4012.5	0.079
731.	0.327	4013.	0.081
731.5	0.322	4013.5	0.078
732.	0.325	4014.	0.078
732.5	0.326	4014.5	0.082
733.	0.326	4015.	0.078
733.5	0.329	4015.5	0.074
734.	0.33	4016.	0.078
734.5	0.326	4016.5	0.077
735.	0.325	4017.	0.085
735.5	0.329	4017.5	0.079
736.	0.324	4018.	0.083
736.5	0.326	4018.5	0.079
737.	0.324	4019.	0.079
737.5	0.328	4019.5	0.075
738.	0.326	4020.	0.082
738.5	0.326	4020.5	0.084
739.	0.328	4021.	0.082
739.5	0.32	4021.5	0.078
740.	0.321	4022.	0.08
740.5	0.327	4022.5	0.077
741.	0.321	4023.	0.08
741.5	0.323	4023.5	0.082
742.	0.322	4024.	0.076
742.5	0.323	4024.5	0.084
743.	0.321	4025.	0.078
743.5	0.325	4025.5	0.082
744.	0.321	4026.	0.083
744.5	0.325	4026.5	0.08
745.	0.322	4027.	0.078
745.5	0.32	4027.5	0.081
746.	0.322	4028.	0.083
746.5	0.317	4028.5	0.081
747.	0.316	4029.	0.082
747.5	0.319	4029.5	0.084
748.	0.317	4030.	0.079
748.5	0.315	4030.5	0.08
749.	0.32	4031.	0.076
749.5	0.32	4031.5	0.082
750.	0.319	4032.	0.083
750.5	0.321	4032.5	0.079
751.	0.313	4033.	0.081
751.5	0.319	4033.5	0.087
752.	0.323	4034.	0.082
752.5	0.319	4034.5	0.082
753.	0.323	4035.	0.079
753.5	0.316	4035.5	0.082
754.	0.322	4036.	0.084
754.5	0.322	4036.5	0.077

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
755.	0.323	4037.	0.078
755.5	0.323	4037.5	0.079
756.	0.32	4038.	0.083
756.5	0.322	4038.5	0.083
757.	0.318	4039.	0.083
757.5	0.314	4039.5	0.083
758.	0.314	4040.	0.081
758.5	0.318	4040.5	0.078
759.	0.315	4041.	0.079
759.5	0.322	4041.5	0.077
760.	0.319	4042.	0.081
760.5	0.322	4042.5	0.075
761.	0.317	4043.	0.078
761.5	0.32	4043.5	0.079
762.	0.316	4044.	0.08
762.5	0.314	4044.5	0.081
763.	0.315	4045.	0.078
763.5	0.322	4045.5	0.086
764.	0.318	4046.	0.082
764.5	0.318	4046.5	0.08
765.	0.316	4047.	0.076
765.5	0.321	4047.5	0.085
766.	0.316	4048.	0.082
766.5	0.32	4048.5	0.077
767.	0.318	4049.	0.082
767.5	0.326	4049.5	0.079
768.	0.321	4050.	0.083
768.5	0.316	4050.5	0.081
769.	0.317	4051.	0.079
769.5	0.317	4051.5	0.08
770.	0.313	4052.	0.077
770.5	0.316	4052.5	0.082
771.	0.313	4053.	0.086
771.5	0.318	4053.5	0.081
772.	0.315	4054.	0.079
772.5	0.318	4054.5	0.077
773.	0.316	4055.	0.079
773.5	0.325	4055.5	0.076
774.	0.318	4056.	0.082
774.5	0.318	4056.5	0.085
775.	0.313	4057.	0.079
775.5	0.316	4057.5	0.082
776.	0.314	4058.	0.078
776.5	0.315	4058.5	0.075
777.	0.317	4059.	0.081
777.5	0.317	4059.5	0.082
778.	0.319	4060.	0.082
778.5	0.313	4060.5	0.081
779.	0.309	4061.	0.076
779.5	0.316	4061.5	0.081
780.	0.316	4062.	0.075
780.5	0.315	4062.5	0.078
781.	0.313	4063.	0.079
781.5	0.311	4063.5	0.079
782.	0.312	4064.	0.084
782.5	0.317	4064.5	0.077
783.	0.312	4065.	0.083
783.5	0.316	4065.5	0.083
784.	0.312	4066.	0.081
784.5	0.317	4066.5	0.08
785.	0.312	4067.	0.081
785.5	0.317	4067.5	0.078
786.	0.313	4068.	0.084
786.5	0.306	4068.5	0.076
787.	0.314	4069.	0.076
787.5	0.308	4069.5	0.08
788.	0.311	4070.	0.079

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
788.5	0.319	4070.5	0.076
789.	0.319	4071.	0.082
789.5	0.31	4071.5	0.083
790.	0.31	4072.	0.084
790.5	0.311	4072.5	0.078
791.	0.308	4073.	0.082
791.5	0.308	4073.5	0.083
792.	0.308	4074.	0.08
792.5	0.311	4074.5	0.077
793.	0.314	4075.	0.082
793.5	0.312	4075.5	0.074
794.	0.307	4076.	0.083
794.5	0.31	4076.5	0.081
795.	0.317	4077.	0.083
795.5	0.316	4077.5	0.073
796.	0.307	4078.	0.078
796.5	0.312	4078.5	0.076
797.	0.313	4079.	0.081
797.5	0.312	4079.5	0.077
798.	0.308	4080.	0.073
798.5	0.309	4080.5	0.081
799.	0.311	4081.	0.076
799.5	0.316	4081.5	0.077
800.	0.314	4082.	0.08
800.5	0.307	4082.5	0.083
801.	0.308	4083.	0.08
801.5	0.309	4083.5	0.075
802.	0.305	4084.	0.082
802.5	0.307	4084.5	0.074
803.	0.306	4085.	0.079
803.5	0.309	4085.5	0.08
804.	0.306	4086.	0.08
804.5	0.304	4086.5	0.078
805.	0.307	4087.	0.078
805.5	0.308	4087.5	0.077
806.	0.302	4088.	0.082
806.5	0.308	4088.5	0.078
807.	0.308	4089.	0.076
807.5	0.304	4089.5	0.074
808.	0.305	4090.	0.078
808.5	0.305	4090.5	0.08
809.	0.309	4091.	0.077
809.5	0.31	4091.5	0.08
810.	0.31	4092.	0.083
810.5	0.304	4092.5	0.077
811.	0.299	4093.	0.082
811.5	0.309	4093.5	0.079
812.	0.307	4094.	0.076
812.5	0.308	4094.5	0.083
813.	0.306	4095.	0.078
813.5	0.307	4095.5	0.081
814.	0.307	4096.	0.081
814.5	0.306	4096.5	0.077
815.	0.302	4097.	0.082
815.5	0.31	4097.5	0.077
816.	0.303	4098.	0.08
816.5	0.302	4098.5	0.072
817.	0.299	4099.	0.081
817.5	0.307	4099.5	0.08
818.	0.307	4100.	0.076
818.5	0.302	4100.5	0.076
819.	0.302	4101.	0.071
819.5	0.304	4101.5	0.081
820.	0.304	4102.	0.08
820.5	0.305	4102.5	0.078
821.	0.309	4103.	0.08
821.5	0.3	4103.5	0.082

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
822.	0.302	4104.	0.081
822.5	0.303	4104.5	0.076
823.	0.303	4105.	0.082
823.5	0.306	4105.5	0.078
824.	0.302	4106.	0.082
824.5	0.306	4106.5	0.078
825.	0.302	4107.	0.079
825.5	0.301	4107.5	0.077
826.	0.302	4108.	0.075
826.5	0.299	4108.5	0.079
827.	0.301	4109.	0.078
827.5	0.296	4109.5	0.077
828.	0.299	4110.	0.079
828.5	0.3	4110.5	0.082
829.	0.303	4111.	0.079
829.5	0.304	4111.5	0.079
830.	0.306	4112.	0.075
830.5	0.307	4112.5	0.082
831.	0.299	4113.	0.077
831.5	0.301	4113.5	0.076
832.	0.298	4114.	0.078
832.5	0.294	4114.5	0.084
833.	0.304	4115.	0.079
833.5	0.3	4115.5	0.082
834.	0.302	4116.	0.085
834.5	0.301	4116.5	0.08
835.	0.299	4117.	0.084
835.5	0.302	4117.5	0.082
836.	0.297	4118.	0.074
836.5	0.303	4118.5	0.075
837.	0.303	4119.	0.077
837.5	0.297	4119.5	0.079
838.	0.3	4120.	0.08
838.5	0.299	4120.5	0.074
839.	0.299	4121.	0.082
839.5	0.303	4121.5	0.08
840.	0.302	4122.	0.075
840.5	0.302	4122.5	0.078
841.	0.303	4123.	0.08
841.5	0.297	4123.5	0.078
842.	0.298	4124.	0.078
842.5	0.297	4124.5	0.078
843.	0.291	4125.	0.073
843.5	0.302	4125.5	0.084
844.	0.304	4126.	0.081
844.5	0.296	4126.5	0.082
845.	0.294	4127.	0.078
845.5	0.297	4127.5	0.08
846.	0.297	4128.	0.077
846.5	0.297	4128.5	0.079
847.	0.299	4129.	0.078
847.5	0.301	4129.5	0.076
848.	0.297	4130.	0.078
848.5	0.298	4130.5	0.076
849.	0.294	4131.	0.081
849.5	0.297	4131.5	0.082
850.	0.302	4132.	0.08
850.5	0.299	4132.5	0.077
851.	0.3	4133.	0.076
851.5	0.297	4133.5	0.082
852.	0.296	4134.	0.079
852.5	0.298	4134.5	0.078
853.	0.294	4135.	0.076
853.5	0.3	4135.5	0.079
854.	0.297	4136.	0.076
854.5	0.299	4136.5	0.079
855.	0.297	4137.	0.078

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
855.5	0.292	4137.5	0.081
856.	0.29	4138.	0.076
856.5	0.3	4138.5	0.078
857.	0.292	4139.	0.078
857.5	0.294	4139.5	0.081
858.	0.291	4140.	0.079
858.5	0.293	4140.5	0.076
859.	0.298	4141.	0.08
859.5	0.296	4141.5	0.074
860.	0.295	4142.	0.08
860.5	0.298	4142.5	0.084
861.	0.299	4143.	0.073
861.5	0.298	4143.5	0.073
862.	0.295	4144.	0.084
862.5	0.297	4144.5	0.081
863.	0.292	4145.	0.076
863.5	0.294	4145.5	0.078
864.	0.292	4146.	0.073
864.5	0.299	4146.5	0.074
865.	0.295	4147.	0.08
865.5	0.297	4147.5	0.074
866.	0.295	4148.	0.081
866.5	0.294	4148.5	0.074
867.	0.295	4149.	0.081
867.5	0.293	4149.5	0.078
868.	0.297	4150.	0.076
868.5	0.295	4150.5	0.079
869.	0.286	4151.	0.077
869.5	0.295	4151.5	0.083
870.	0.299	4152.	0.08
870.5	0.293	4152.5	0.082
871.	0.291	4153.	0.079
871.5	0.292	4153.5	0.079
872.	0.291	4154.	0.079
872.5	0.295	4154.5	0.078
873.	0.292	4155.	0.077
873.5	0.294	4155.5	0.076
874.	0.288	4156.	0.081
874.5	0.285	4156.5	0.081
875.	0.289	4157.	0.08
875.5	0.296	4157.5	0.081
876.	0.292	4158.	0.081
876.5	0.291	4158.5	0.077
877.	0.296	4159.	0.077
877.5	0.294	4159.5	0.078
878.	0.291	4160.	0.07
878.5	0.288	4160.5	0.087
879.	0.292	4161.	0.074
879.5	0.291	4161.5	0.081
880.	0.29	4162.	0.075
880.5	0.292	4162.5	0.076
881.	0.287	4163.	0.075
881.5	0.296	4163.5	0.083
882.	0.285	4164.	0.082
882.5	0.29	4164.5	0.081
883.	0.285	4165.	0.073
883.5	0.289	4165.5	0.081
884.	0.291	4166.	0.072
884.5	0.29	4166.5	0.081
885.	0.287	4167.	0.072
885.5	0.288	4167.5	0.07
886.	0.289	4168.	0.077
886.5	0.29	4168.5	0.079
887.	0.29	4169.	0.073
887.5	0.292	4169.5	0.078
888.	0.292	4170.	0.08
888.5	0.287	4170.5	0.079

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
889.	0.286	4171.	0.077
889.5	0.289	4171.5	0.076
890.	0.289	4172.	0.07
890.5	0.291	4172.5	0.076
891.	0.292	4173.	0.076
891.5	0.29	4173.5	0.073
892.	0.288	4174.	0.08
892.5	0.297	4174.5	0.08
893.	0.29	4175.	0.079
893.5	0.293	4175.5	0.079
894.	0.288	4176.	0.075
894.5	0.289	4176.5	0.076
895.	0.29	4177.	0.077
895.5	0.288	4177.5	0.078
896.	0.288	4178.	0.074
896.5	0.285	4178.5	0.075
897.	0.288	4179.	0.083
897.5	0.285	4179.5	0.076
898.	0.284	4180.	0.076
898.5	0.29	4180.5	0.078
899.	0.288	4181.	0.071
899.5	0.286	4181.5	0.08
900.	0.289	4182.	0.081
900.5	0.288	4182.5	0.079
901.	0.284	4183.	0.077
901.5	0.288	4183.5	0.078
902.	0.286	4184.	0.077
902.5	0.288	4184.5	0.076
903.	0.283	4185.	0.076
903.5	0.283	4185.5	0.077
904.	0.286	4186.	0.077
904.5	0.284	4186.5	0.078
905.	0.282	4187.	0.078
905.5	0.282	4187.5	0.076
906.	0.285	4188.	0.08
906.5	0.287	4188.5	0.077
907.	0.288	4189.	0.075
907.5	0.281	4189.5	0.077
908.	0.282	4190.	0.077
908.5	0.286	4190.5	0.079
909.	0.285	4191.	0.079
909.5	0.288	4191.5	0.08
910.	0.283	4192.	0.072
910.5	0.286	4192.5	0.076
911.	0.282	4193.	0.074
911.5	0.284	4193.5	0.077
912.	0.281	4194.	0.074
912.5	0.283	4194.5	0.073
913.	0.286	4195.	0.075
913.5	0.285	4195.5	0.077
914.	0.281	4196.	0.079
914.5	0.289	4196.5	0.074
915.	0.28	4197.	0.076
915.5	0.286	4197.5	0.075
916.	0.283	4198.	0.076
916.5	0.279	4198.5	0.081
917.	0.284	4199.	0.075
917.5	0.28	4199.5	0.078
918.	0.28	4200.	0.075
918.5	0.289	4200.5	0.072
919.	0.289	4201.	0.079
919.5	0.282	4201.5	0.085
920.	0.281	4202.	0.078
920.5	0.278	4202.5	0.076
921.	0.285	4203.	0.08
921.5	0.287	4203.5	0.073
922.	0.283	4204.	0.076

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
922.5	0.286	4204.5	0.073
923.	0.28	4205.	0.076
923.5	0.278	4205.5	0.077
924.	0.281	4206.	0.079
924.5	0.277	4206.5	0.079
925.	0.289	4207.	0.076
925.5	0.283	4207.5	0.078
926.	0.282	4208.	0.075
926.5	0.276	4208.5	0.079
927.	0.28	4209.	0.077
927.5	0.28	4209.5	0.079
928.	0.285	4210.	0.076
928.5	0.274	4210.5	0.081
929.	0.28	4211.	0.077
929.5	0.276	4211.5	0.081
930.	0.283	4212.	0.076
930.5	0.277	4212.5	0.076
931.	0.282	4213.	0.077
931.5	0.279	4213.5	0.077
932.	0.277	4214.	0.079
932.5	0.28	4214.5	0.08
933.	0.281	4215.	0.07
933.5	0.284	4215.5	0.085
934.	0.283	4216.	0.079
934.5	0.282	4216.5	0.084
935.	0.28	4217.	0.075
935.5	0.281	4217.5	0.075
936.	0.276	4218.	0.077
936.5	0.271	4218.5	0.081
937.	0.277	4219.	0.076
937.5	0.275	4219.5	0.079
938.	0.28	4220.	0.078
938.5	0.283	4220.5	0.081
939.	0.277	4221.	0.076
939.5	0.274	4221.5	0.08
940.	0.281	4222.	0.079
940.5	0.28	4222.5	0.077
941.	0.276	4223.	0.073
941.5	0.283	4223.5	0.076
942.	0.282	4224.	0.075
942.5	0.28	4224.5	0.079
943.	0.279	4225.	0.072
943.5	0.279	4225.5	0.076
944.	0.27	4226.	0.078
944.5	0.276	4226.5	0.077
945.	0.278	4227.	0.074
945.5	0.281	4227.5	0.072
946.	0.279	4228.	0.078
946.5	0.278	4228.5	0.076
947.	0.278	4229.	0.068
947.5	0.272	4229.5	0.074
948.	0.277	4230.	0.076
948.5	0.273	4230.5	0.082
949.	0.277	4231.	0.075
949.5	0.277	4231.5	0.085
950.	0.269	4232.	0.078
950.5	0.274	4232.5	0.075
951.	0.277	4233.	0.079
951.5	0.277	4233.5	0.075
952.	0.27	4234.	0.073
952.5	0.278	4234.5	0.079
953.	0.277	4235.	0.08
953.5	0.271	4235.5	0.08
954.	0.276	4236.	0.075
954.5	0.274	4236.5	0.074
955.	0.275	4237.	0.075
955.5	0.274	4237.5	0.078

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
956.	0.269	4238.	0.075
956.5	0.276	4238.5	0.076
957.	0.277	4239.	0.073
957.5	0.274	4239.5	0.081
958.	0.269	4240.	0.081
958.5	0.269	4240.5	0.071
959.	0.271	4241.	0.076
959.5	0.268	4241.5	0.081
960.	0.276	4242.	0.071
960.5	0.267	4242.5	0.077
961.	0.269	4243.	0.077
961.5	0.267	4243.5	0.074
962.	0.269	4244.	0.076
962.5	0.269	4244.5	0.074
963.	0.273	4245.	0.08
963.5	0.271	4245.5	0.077
964.	0.272	4246.	0.077
964.5	0.274	4246.5	0.082
965.	0.268	4247.	0.081
965.5	0.275	4247.5	0.077
966.	0.276	4248.	0.074
966.5	0.271	4248.5	0.081
967.	0.269	4249.	0.079
967.5	0.27	4249.5	0.074
968.	0.27	4250.	0.081
968.5	0.273	4250.5	0.078
969.	0.274	4251.	0.078
969.5	0.27	4251.5	0.077
970.	0.27	4252.	0.074
970.5	0.27	4252.5	0.075
971.	0.274	4253.	0.078
971.5	0.273	4253.5	0.076
972.	0.27	4254.	0.075
972.5	0.269	4254.5	0.077
973.	0.266	4255.	0.078
973.5	0.271	4255.5	0.077
974.	0.266	4256.	0.08
974.5	0.269	4256.5	0.076
975.	0.266	4257.	0.074
975.5	0.27	4257.5	0.084
976.	0.272	4258.	0.082
976.5	0.27	4258.5	0.074
977.	0.266	4259.	0.072
977.5	0.267	4259.5	0.075
978.	0.269	4260.	0.077
978.5	0.266	4260.5	0.08
979.	0.272	4261.	0.073
979.5	0.267	4261.5	0.076
980.	0.272	4262.	0.073
980.5	0.268	4262.5	0.075
981.	0.264	4263.	0.073
981.5	0.272	4263.5	0.078
982.	0.268	4264.	0.074
982.5	0.271	4264.5	0.076
983.	0.27	4265.	0.082
983.5	0.269	4265.5	0.073
984.	0.266	4266.	0.078
984.5	0.266	4266.5	0.076
985.	0.269	4267.	0.075
985.5	0.273	4267.5	0.081
986.	0.274	4268.	0.074
986.5	0.265	4268.5	0.072
987.	0.268	4269.	0.079
987.5	0.268	4269.5	0.073
988.	0.271	4270.	0.075
988.5	0.265	4270.5	0.074
989.	0.268	4271.	0.07

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
989.5	0.271	4271.5	0.074
990.	0.269	4272.	0.073
990.5	0.269	4272.5	0.08
991.	0.268	4273.	0.075
991.5	0.269	4273.5	0.076
992.	0.262	4274.	0.072
992.5	0.265	4274.5	0.078
993.	0.268	4275.	0.071
993.5	0.275	4275.5	0.074
994.	0.266	4276.	0.077
994.5	0.27	4276.5	0.075
995.	0.266	4277.	0.074
995.5	0.265	4277.5	0.076
996.	0.267	4278.	0.07
996.5	0.263	4278.5	0.072
997.	0.266	4279.	0.077
997.5	0.268	4279.5	0.074
998.	0.269	4280.	0.079
998.5	0.265	4280.5	0.078
999.	0.265	4281.	0.079
999.5	0.265	4281.5	0.076
1000.	0.265	4282.	0.072
1000.5	0.268	4282.5	0.083
1001.	0.269	4283.	0.079
1001.5	0.262	4283.5	0.073
1002.	0.264	4284.	0.071
1002.5	0.266	4284.5	0.076
1003.	0.265	4285.	0.072
1003.5	0.266	4285.5	0.079
1004.	0.262	4286.	0.078
1004.5	0.269	4286.5	0.084
1005.	0.263	4287.	0.079
1005.5	0.261	4287.5	0.082
1006.	0.263	4288.	0.075
1006.5	0.27	4288.5	0.073
1007.	0.268	4289.	0.078
1007.5	0.263	4289.5	0.078
1008.	0.262	4290.	0.072
1008.5	0.27	4290.5	0.075
1009.	0.264	4291.	0.071
1009.5	0.265	4291.5	0.073
1010.	0.266	4292.	0.077
1010.5	0.274	4292.5	0.076
1011.	0.265	4293.	0.074
1011.5	0.273	4293.5	0.082
1012.	0.265	4294.	0.074
1012.5	0.268	4294.5	0.073
1013.	0.258	4295.	0.077
1013.5	0.259	4295.5	0.073
1014.	0.262	4296.	0.078
1014.5	0.268	4296.5	0.078
1015.	0.266	4297.	0.074
1015.5	0.265	4297.5	0.079
1016.	0.264	4298.	0.072
1016.5	0.268	4298.5	0.074
1017.	0.268	4299.	0.077
1017.5	0.268	4299.5	0.075
1018.	0.264	4300.	0.077
1018.5	0.263	4300.5	0.075
1019.	0.262	4301.	0.072
1019.5	0.266	4301.5	0.074
1020.	0.264	4302.	0.072
1020.5	0.262	4302.5	0.074
1021.	0.266	4303.	0.074
1021.5	0.26	4303.5	0.079
1022.	0.265	4304.	0.078
1022.5	0.264	4304.5	0.08

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1023.	0.261	4305.	0.075
1023.5	0.255	4305.5	0.068
1024.	0.26	4306.	0.072
1024.5	0.26	4306.5	0.078
1025.	0.263	4307.	0.071
1025.5	0.266	4307.5	0.076
1026.	0.256	4308.	0.075
1026.5	0.265	4308.5	0.078
1027.	0.265	4309.	0.073
1027.5	0.259	4309.5	0.074
1028.	0.262	4310.	0.073
1028.5	0.265	4310.5	0.078
1029.	0.257	4311.	0.076
1029.5	0.261	4311.5	0.072
1030.	0.261	4312.	0.073
1030.5	0.263	4312.5	0.076
1031.	0.254	4313.	0.066
1031.5	0.259	4313.5	0.078
1032.	0.267	4314.	0.073
1032.5	0.265	4314.5	0.078
1033.	0.265	4315.	0.074
1033.5	0.265	4315.5	0.077
1034.	0.265	4316.	0.077
1034.5	0.259	4316.5	0.077
1035.	0.262	4317.	0.068
1035.5	0.262	4317.5	0.081
1036.	0.261	4318.	0.078
1036.5	0.262	4318.5	0.077
1037.	0.265	4319.	0.074
1037.5	0.26	4319.5	0.077
1038.	0.259	4320.	0.073
1038.5	0.264	4320.5	0.077
1039.	0.258	4321.	0.072
1039.5	0.256	4321.5	0.08
1040.	0.254	4322.	0.079
1040.5	0.265	4322.5	0.074
1041.	0.261	4323.	0.073
1041.5	0.26	4323.5	0.079
1042.	0.263	4324.	0.07
1042.5	0.261	4324.5	0.073
1043.	0.263	4325.	0.076
1043.5	0.264	4325.5	0.079
1044.	0.26	4326.	0.077
1044.5	0.261	4326.5	0.08
1045.	0.26	4327.	0.072
1045.5	0.257	4327.5	0.071
1046.	0.258	4328.	0.078
1046.5	0.259	4328.5	0.073
1047.	0.257	4329.	0.079
1047.5	0.26	4329.5	0.076
1048.	0.261	4330.	0.076
1048.5	0.261	4330.5	0.076
1049.	0.253	4331.	0.078
1049.5	0.261	4331.5	0.077
1050.	0.261	4332.	0.073
1050.5	0.25	4332.5	0.081
1051.	0.26	4333.	0.071
1051.5	0.258	4333.5	0.077
1052.	0.259	4334.	0.073
1052.5	0.26	4334.5	0.077
1053.	0.259	4335.	0.078
1053.5	0.253	4335.5	0.078
1054.	0.261	4336.	0.081
1054.5	0.265	4336.5	0.073
1055.	0.26	4337.	0.075
1055.5	0.257	4337.5	0.079
1056.	0.258	4338.	0.08

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1056.5	0.262	4338.5	0.081
1057.	0.257	4339.	0.078
1057.5	0.258	4339.5	0.074
1058.	0.257	4340.	0.076
1058.5	0.261	4340.5	0.075
1059.	0.257	4341.	0.072
1059.5	0.257	4341.5	0.07
1060.	0.256	4342.	0.072
1060.5	0.255	4342.5	0.081
1061.	0.257	4343.	0.083
1061.5	0.25	4343.5	0.076
1062.	0.257	4344.	0.073
1062.5	0.259	4344.5	0.079
1063.	0.257	4345.	0.074
1063.5	0.25	4345.5	0.072
1064.	0.257	4346.	0.079
1064.5	0.255	4346.5	0.073
1065.	0.257	4347.	0.075
1065.5	0.258	4347.5	0.079
1066.	0.258	4348.	0.079
1066.5	0.257	4348.5	0.07
1067.	0.258	4349.	0.073
1067.5	0.259	4349.5	0.078
1068.	0.253	4350.	0.079
1068.5	0.255	4350.5	0.072
1069.	0.251	4351.	0.073
1069.5	0.252	4351.5	0.074
1070.	0.255	4352.	0.074
1070.5	0.257	4352.5	0.072
1071.	0.253	4353.	0.077
1071.5	0.252	4353.5	0.078
1072.	0.261	4354.	0.072
1072.5	0.252	4354.5	0.075
1073.	0.257	4355.	0.071
1073.5	0.248	4355.5	0.075
1074.	0.253	4356.	0.072
1074.5	0.256	4356.5	0.075
1075.	0.251	4357.	0.071
1075.5	0.256	4357.5	0.072
1076.	0.254	4358.	0.072
1076.5	0.252	4358.5	0.078
1077.	0.254	4359.	0.07
1077.5	0.259	4359.5	0.076
1078.	0.257	4360.	0.07
1078.5	0.247	4360.5	0.074
1079.	0.25	4361.	0.07
1079.5	0.247	4361.5	0.073
1080.	0.255	4362.	0.078
1080.5	0.258	4362.5	0.07
1081.	0.256	4363.	0.07
1081.5	0.248	4363.5	0.075
1082.	0.256	4364.	0.076
1082.5	0.25	4364.5	0.072
1083.	0.251	4365.	0.076
1083.5	0.256	4365.5	0.073
1084.	0.252	4366.	0.075
1084.5	0.251	4366.5	0.075
1085.	0.254	4367.	0.073
1085.5	0.254	4367.5	0.072
1086.	0.255	4368.	0.073
1086.5	0.251	4368.5	0.076
1087.	0.256	4369.	0.072
1087.5	0.252	4369.5	0.072
1088.	0.256	4370.	0.074
1088.5	0.252	4370.5	0.072
1089.	0.248	4371.	0.073
1089.5	0.259	4371.5	0.072

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1090.	0.256	4372.	0.073
1090.5	0.255	4372.5	0.068
1091.	0.253	4373.	0.072
1091.5	0.257	4373.5	0.077
1092.	0.252	4374.	0.073
1092.5	0.251	4374.5	0.078
1093.	0.26	4375.	0.08
1093.5	0.251	4375.5	0.073
1094.	0.251	4376.	0.075
1094.5	0.256	4376.5	0.074
1095.	0.25	4377.	0.076
1095.5	0.254	4377.5	0.073
1096.	0.251	4378.	0.072
1096.5	0.252	4378.5	0.076
1097.	0.247	4379.	0.076
1097.5	0.253	4379.5	0.077
1098.	0.255	4380.	0.073
1098.5	0.252	4380.5	0.08
1099.	0.249	4381.	0.075
1099.5	0.253	4381.5	0.075
1100.	0.249	4382.	0.076
1100.5	0.245	4382.5	0.077
1101.	0.244	4383.	0.072
1101.5	0.247	4383.5	0.073
1102.	0.251	4384.	0.069
1102.5	0.251	4384.5	0.076
1103.	0.253	4385.	0.07
1103.5	0.248	4385.5	0.083
1104.	0.251	4386.	0.075
1104.5	0.246	4386.5	0.079
1105.	0.248	4387.	0.07
1105.5	0.25	4387.5	0.076
1106.	0.254	4388.	0.073
1106.5	0.254	4388.5	0.072
1107.	0.247	4389.	0.073
1107.5	0.241	4389.5	0.074
1108.	0.25	4390.	0.072
1108.5	0.247	4390.5	0.077
1109.	0.249	4391.	0.078
1109.5	0.25	4391.5	0.075
1110.	0.248	4392.	0.074
1110.5	0.245	4392.5	0.068
1111.	0.245	4393.	0.077
1111.5	0.25	4393.5	0.076
1112.	0.248	4394.	0.075
1112.5	0.247	4394.5	0.071
1113.	0.254	4395.	0.07
1113.5	0.246	4395.5	0.074
1114.	0.245	4396.	0.073
1114.5	0.25	4396.5	0.08
1115.	0.247	4397.	0.069
1115.5	0.249	4397.5	0.073
1116.	0.247	4398.	0.074
1116.5	0.249	4398.5	0.073
1117.	0.246	4399.	0.074
1117.5	0.25	4399.5	0.075
1118.	0.246	4400.	0.076
1118.5	0.246	4400.5	0.071
1119.	0.246	4401.	0.069
1119.5	0.244	4401.5	0.071
1120.	0.246	4402.	0.073
1120.5	0.243	4402.5	0.07
1121.	0.245	4403.	0.07
1121.5	0.246	4403.5	0.079
1122.	0.243	4404.	0.071
1122.5	0.245	4404.5	0.074
1123.	0.244	4405.	0.071

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1123.5	0.253	4405.5	0.072
1124.	0.247	4406.	0.073
1124.5	0.247	4406.5	0.077
1125.	0.248	4407.	0.069
1125.5	0.245	4407.5	0.074
1126.	0.249	4408.	0.075
1126.5	0.247	4408.5	0.077
1127.	0.244	4409.	0.071
1127.5	0.249	4409.5	0.075
1128.	0.247	4410.	0.072
1128.5	0.25	4410.5	0.078
1129.	0.248	4411.	0.075
1129.5	0.242	4411.5	0.077
1130.	0.25	4412.	0.075
1130.5	0.243	4412.5	0.073
1131.	0.246	4413.	0.074
1131.5	0.241	4413.5	0.075
1132.	0.242	4414.	0.072
1132.5	0.245	4414.5	0.078
1133.	0.247	4415.	0.078
1133.5	0.245	4415.5	0.07
1134.	0.243	4416.	0.078
1134.5	0.244	4416.5	0.075
1135.	0.245	4417.	0.078
1135.5	0.244	4417.5	0.073
1136.	0.243	4418.	0.071
1136.5	0.24	4418.5	0.077
1137.	0.243	4419.	0.074
1137.5	0.247	4419.5	0.075
1138.	0.246	4420.	0.074
1138.5	0.25	4420.5	0.077
1139.	0.247	4421.	0.073
1139.5	0.24	4421.5	0.073
1140.	0.248	4422.	0.074
1140.5	0.243	4422.5	0.071
1141.	0.245	4423.	0.071
1141.5	0.245	4423.5	0.072
1142.	0.238	4424.	0.067
1142.5	0.245	4424.5	0.077
1143.	0.241	4425.	0.073
1143.5	0.245	4425.5	0.077
1144.	0.242	4426.	0.077
1144.5	0.243	4426.5	0.073
1145.	0.241	4427.	0.072
1145.5	0.237	4427.5	0.073
1146.	0.245	4428.	0.075
1146.5	0.241	4428.5	0.075
1147.	0.243	4429.	0.076
1147.5	0.247	4429.5	0.076
1148.	0.239	4430.	0.075
1148.5	0.242	4430.5	0.074
1149.	0.251	4431.	0.073
1149.5	0.243	4431.5	0.072
1150.	0.244	4432.	0.074
1150.5	0.24	4432.5	0.071
1151.	0.239	4433.	0.071
1151.5	0.236	4433.5	0.071
1152.	0.246	4434.	0.073
1152.5	0.24	4434.5	0.077
1153.	0.246	4435.	0.074
1153.5	0.241	4435.5	0.073
1154.	0.242	4436.	0.08
1154.5	0.235	4436.5	0.07
1155.	0.237	4437.	0.075
1155.5	0.238	4437.5	0.079
1156.	0.24	4438.	0.073
1156.5	0.24	4438.5	0.077

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1157.	0.241	4439.	0.066
1157.5	0.238	4439.5	0.07
1158.	0.243	4440.	0.076
1158.5	0.244	4440.5	0.077
1159.	0.239	4441.	0.074
1159.5	0.239	4441.5	0.07
1160.	0.241	4442.	0.073
1160.5	0.233	4442.5	0.075
1161.	0.238	4443.	0.074
1161.5	0.237	4443.5	0.071
1162.	0.24	4444.	0.07
1162.5	0.236	4444.5	0.07
1163.	0.244	4445.	0.072
1163.5	0.243	4445.5	0.071
1164.	0.24	4446.	0.079
1164.5	0.243	4446.5	0.072
1165.	0.241	4447.	0.076
1165.5	0.243	4447.5	0.079
1166.	0.237	4448.	0.074
1166.5	0.242	4448.5	0.073
1167.	0.239	4449.	0.071
1167.5	0.239	4449.5	0.071
1168.	0.237	4450.	0.076
1168.5	0.239	4450.5	0.072
1169.	0.239	4451.	0.073
1169.5	0.236	4451.5	0.074
1170.	0.238	4452.	0.077
1170.5	0.243	4452.5	0.076
1171.	0.237	4453.	0.074
1171.5	0.238	4453.5	0.07
1172.	0.24	4454.	0.072
1172.5	0.238	4454.5	0.076
1173.	0.236	4455.	0.077
1173.5	0.244	4455.5	0.072
1174.	0.243	4456.	0.075
1174.5	0.238	4456.5	0.069
1175.	0.233	4457.	0.075
1175.5	0.239	4457.5	0.07
1176.	0.24	4458.	0.074
1176.5	0.245	4458.5	0.074
1177.	0.238	4459.	0.075
1177.5	0.237	4459.5	0.068
1178.	0.237	4460.	0.078
1178.5	0.235	4460.5	0.075
1179.	0.238	4461.	0.075
1179.5	0.237	4461.5	0.073
1180.	0.237	4462.	0.078
1180.5	0.233	4462.5	0.076
1181.	0.239	4463.	0.072
1181.5	0.233	4463.5	0.066
1182.	0.24	4464.	0.082
1182.5	0.24	4464.5	0.073
1183.	0.236	4465.	0.075
1183.5	0.235	4465.5	0.08
1184.	0.236	4466.	0.076
1184.5	0.233	4466.5	0.07
1185.	0.242	4467.	0.076
1185.5	0.237	4467.5	0.071
1186.	0.239	4468.	0.072
1186.5	0.238	4468.5	0.075
1187.	0.232	4469.	0.071
1187.5	0.233	4469.5	0.076
1188.	0.235	4470.	0.076
1188.5	0.23	4470.5	0.075
1189.	0.24	4471.	0.074
1189.5	0.235	4471.5	0.076
1190.	0.236	4472.	0.076

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1190.5	0.238	4472.5	0.077
1191.	0.236	4473.	0.076
1191.5	0.235	4473.5	0.074
1192.	0.233	4474.	0.074
1192.5	0.231	4474.5	0.073
1193.	0.237	4475.	0.079
1193.5	0.237	4475.5	0.077
1194.	0.236	4476.	0.07
1194.5	0.234	4476.5	0.077
1195.	0.236	4477.	0.072
1195.5	0.233	4477.5	0.075
1196.	0.242	4478.	0.075
1196.5	0.226	4478.5	0.073
1197.	0.238	4479.	0.071
1197.5	0.234	4479.5	0.07
1198.	0.235	4480.	0.071
1198.5	0.233	4480.5	0.074
1199.	0.24	4481.	0.074
1199.5	0.238	4481.5	0.071
1200.	0.234	4482.	0.076
1200.5	0.241	4482.5	0.071
1201.	0.237	4483.	0.074
1201.5	0.236	4483.5	0.07
1202.	0.233	4484.	0.066
1202.5	0.23	4484.5	0.069
1203.	0.231	4485.	0.078
1203.5	0.235	4485.5	0.077
1204.	0.232	4486.	0.075
1204.5	0.241	4486.5	0.073
1205.	0.237	4487.	0.072
1205.5	0.229	4487.5	0.07
1206.	0.236	4488.	0.076
1206.5	0.23	4488.5	0.073
1207.	0.232	4489.	0.074
1207.5	0.232	4489.5	0.075
1208.	0.231	4490.	0.074
1208.5	0.236	4490.5	0.071
1209.	0.234	4491.	0.075
1209.5	0.23	4491.5	0.071
1210.	0.229	4492.	0.075
1210.5	0.23	4492.5	0.07
1211.	0.23	4493.	0.073
1211.5	0.234	4493.5	0.072
1212.	0.238	4494.	0.07
1212.5	0.233	4494.5	0.074
1213.	0.233	4495.	0.075
1213.5	0.234	4495.5	0.074
1214.	0.231	4496.	0.076
1214.5	0.232	4496.5	0.075
1215.	0.234	4497.	0.077
1215.5	0.233	4497.5	0.072
1216.	0.23	4498.	0.075
1216.5	0.233	4498.5	0.069
1217.	0.236	4499.	0.074
1217.5	0.233	4499.5	0.071
1218.	0.232	4500.	0.078
1218.5	0.232	4500.5	0.067
1219.	0.227	4501.	0.075
1219.5	0.232	4501.5	0.076
1220.	0.231	4502.	0.072
1220.5	0.23	4502.5	0.071
1221.	0.231	4503.	0.068
1221.5	0.23	4503.5	0.077
1222.	0.234	4504.	0.078
1222.5	0.23	4504.5	0.068
1223.	0.232	4505.	0.071
1223.5	0.231	4505.5	0.068

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1224.	0.23	4506.	0.074
1224.5	0.228	4506.5	0.071
1225.	0.228	4507.	0.073
1225.5	0.227	4507.5	0.065
1226.	0.227	4508.	0.07
1226.5	0.231	4508.5	0.066
1227.	0.233	4509.	0.076
1227.5	0.228	4509.5	0.069
1228.	0.231	4510.	0.077
1228.5	0.23	4510.5	0.072
1229.	0.229	4511.	0.069
1229.5	0.231	4511.5	0.07
1230.	0.231	4512.	0.068
1230.5	0.235	4512.5	0.075
1231.	0.23	4513.	0.07
1231.5	0.234	4513.5	0.066
1232.	0.231	4514.	0.074
1232.5	0.226	4514.5	0.07
1233.	0.227	4515.	0.076
1233.5	0.228	4515.5	0.075
1234.	0.229	4516.	0.076
1234.5	0.229	4516.5	0.072
1235.	0.224	4517.	0.072
1235.5	0.231	4517.5	0.073
1236.	0.231	4518.	0.071
1236.5	0.232	4518.5	0.07
1237.	0.228	4519.	0.072
1237.5	0.231	4519.5	0.071
1238.	0.227	4520.	0.078
1238.5	0.229	4520.5	0.07
1239.	0.228	4521.	0.079
1239.5	0.234	4521.5	0.071
1240.	0.224	4522.	0.072
1240.5	0.229	4522.5	0.073
1241.	0.231	4523.	0.075
1241.5	0.232	4523.5	0.071
1242.	0.237	4524.	0.077
1242.5	0.233	4524.5	0.075
1243.	0.234	4525.	0.073
1243.5	0.233	4525.5	0.076
1244.	0.227	4526.	0.074
1244.5	0.225	4526.5	0.069
1245.	0.231	4527.	0.066
1245.5	0.232	4527.5	0.067
1246.	0.225	4528.	0.071
1246.5	0.224	4528.5	0.074
1247.	0.228	4529.	0.073
1247.5	0.228	4529.5	0.064
1248.	0.227	4530.	0.071
1248.5	0.225	4530.5	0.073
1249.	0.224	4531.	0.064
1249.5	0.227	4531.5	0.071
1250.	0.227	4532.	0.074
1250.5	0.233	4532.5	0.064
1251.	0.23	4533.	0.071
1251.5	0.23	4533.5	0.072
1252.	0.226	4534.	0.071
1252.5	0.229	4534.5	0.073
1253.	0.227	4535.	0.073
1253.5	0.228	4535.5	0.063
1254.	0.23	4536.	0.067
1254.5	0.226	4536.5	0.072
1255.	0.231	4537.	0.07
1255.5	0.227	4537.5	0.075
1256.	0.226	4538.	0.069
1256.5	0.227	4538.5	0.072
1257.	0.229	4539.	0.066

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1257.5	0.226	4539.5	0.072
1258.	0.225	4540.	0.071
1258.5	0.231	4540.5	0.071
1259.	0.221	4541.	0.073
1259.5	0.227	4541.5	0.068
1260.	0.23	4542.	0.073
1260.5	0.224	4542.5	0.071
1261.	0.229	4543.	0.072
1261.5	0.227	4543.5	0.072
1262.	0.228	4544.	0.073
1262.5	0.229	4544.5	0.077
1263.	0.23	4545.	0.071
1263.5	0.227	4545.5	0.075
1264.	0.224	4546.	0.071
1264.5	0.225	4546.5	0.07
1265.	0.233	4547.	0.073
1265.5	0.228	4547.5	0.07
1266.	0.227	4548.	0.071
1266.5	0.221	4548.5	0.068
1267.	0.223	4549.	0.072
1267.5	0.229	4549.5	0.073
1268.	0.229	4550.	0.074
1268.5	0.226	4550.5	0.068
1269.	0.228	4551.	0.069
1269.5	0.223	4551.5	0.065
1270.	0.228	4552.	0.075
1270.5	0.22	4552.5	0.072
1271.	0.222	4553.	0.074
1271.5	0.22	4553.5	0.074
1272.	0.222	4554.	0.077
1272.5	0.222	4554.5	0.076
1273.	0.223	4555.	0.074
1273.5	0.225	4555.5	0.075
1274.	0.22	4556.	0.073
1274.5	0.224	4556.5	0.073
1275.	0.226	4557.	0.075
1275.5	0.229	4557.5	0.073
1276.	0.229	4558.	0.068
1276.5	0.225	4558.5	0.071
1277.	0.228	4559.	0.075
1277.5	0.222	4559.5	0.068
1278.	0.224	4560.	0.075
1278.5	0.219	4560.5	0.072
1279.	0.225	4561.	0.071
1279.5	0.224	4561.5	0.071
1280.	0.23	4562.	0.068
1280.5	0.224	4562.5	0.074
1281.	0.224	4563.	0.075
1281.5	0.221	4563.5	0.074
1282.	0.224	4564.	0.07
1282.5	0.221	4564.5	0.073
1283.	0.225	4565.	0.075
1283.5	0.222	4565.5	0.072
1284.	0.224	4566.	0.069
1284.5	0.22	4566.5	0.072
1285.	0.224	4567.	0.068
1285.5	0.224	4567.5	0.07
1286.	0.221	4568.	0.074
1286.5	0.221	4568.5	0.067
1287.	0.217	4569.	0.078
1287.5	0.221	4569.5	0.072
1288.	0.223	4570.	0.077
1288.5	0.22	4570.5	0.074
1289.	0.222	4571.	0.073
1289.5	0.226	4571.5	0.07
1290.	0.225	4572.	0.073
1290.5	0.221	4572.5	0.065

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1291.	0.221	4573.	0.071
1291.5	0.22	4573.5	0.075
1292.	0.224	4574.	0.071
1292.5	0.222	4574.5	0.073
1293.	0.223	4575.	0.072
1293.5	0.223	4575.5	0.071
1294.	0.226	4576.	0.069
1294.5	0.221	4576.5	0.072
1295.	0.228	4577.	0.069
1295.5	0.222	4577.5	0.073
1296.	0.222	4578.	0.071
1296.5	0.22	4578.5	0.072
1297.	0.221	4579.	0.07
1297.5	0.222	4579.5	0.078
1298.	0.225	4580.	0.071
1298.5	0.224	4580.5	0.07
1299.	0.225	4581.	0.074
1299.5	0.22	4581.5	0.072
1300.	0.224	4582.	0.076
1300.5	0.219	4582.5	0.065
1301.	0.22	4583.	0.075
1301.5	0.224	4583.5	0.079
1302.	0.223	4584.	0.071
1302.5	0.225	4584.5	0.071
1303.	0.227	4585.	0.072
1303.5	0.218	4585.5	0.07
1304.	0.225	4586.	0.07
1304.5	0.217	4586.5	0.07
1305.	0.224	4587.	0.069
1305.5	0.223	4587.5	0.067
1306.	0.219	4588.	0.077
1306.5	0.223	4588.5	0.073
1307.	0.225	4589.	0.075
1307.5	0.212	4589.5	0.073
1308.	0.219	4590.	0.076
1308.5	0.225	4590.5	0.068
1309.	0.224	4591.	0.069
1309.5	0.218	4591.5	0.075
1310.	0.225	4592.	0.073
1310.5	0.215	4592.5	0.076
1311.	0.222	4593.	0.071
1311.5	0.223	4593.5	0.071
1312.	0.224	4594.	0.072
1312.5	0.22	4594.5	0.069
1313.	0.22	4595.	0.074
1313.5	0.215	4595.5	0.067
1314.	0.219	4596.	0.073
1314.5	0.218	4596.5	0.068
1315.	0.223	4597.	0.073
1315.5	0.217	4597.5	0.077
1316.	0.216	4598.	0.072
1316.5	0.223	4598.5	0.074
1317.	0.218	4599.	0.066
1317.5	0.214	4599.5	0.077
1318.	0.219	4600.	0.076
1318.5	0.221	4600.5	0.072
1319.	0.221	4601.	0.066
1319.5	0.221	4601.5	0.066
1320.	0.215	4602.	0.07
1320.5	0.218	4602.5	0.072
1321.	0.222	4603.	0.072
1321.5	0.223	4603.5	0.069
1322.	0.221	4604.	0.071
1322.5	0.22	4604.5	0.069
1323.	0.219	4605.	0.075
1323.5	0.212	4605.5	0.066
1324.	0.218	4606.	0.069

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1324.5	0.215	4606.5	0.071
1325.	0.215	4607.	0.071
1325.5	0.217	4607.5	0.068
1326.	0.218	4608.	0.068
1326.5	0.217	4608.5	0.066
1327.	0.212	4609.	0.069
1327.5	0.219	4609.5	0.073
1328.	0.217	4610.	0.074
1328.5	0.218	4610.5	0.066
1329.	0.216	4611.	0.072
1329.5	0.222	4611.5	0.074
1330.	0.223	4612.	0.073
1330.5	0.218	4612.5	0.076
1331.	0.214	4613.	0.074
1331.5	0.22	4613.5	0.072
1332.	0.216	4614.	0.074
1332.5	0.218	4614.5	0.069
1333.	0.213	4615.	0.073
1333.5	0.213	4615.5	0.066
1334.	0.22	4616.	0.071
1334.5	0.217	4616.5	0.073
1335.	0.217	4617.	0.07
1335.5	0.216	4617.5	0.077
1336.	0.223	4618.	0.066
1336.5	0.214	4618.5	0.074
1337.	0.217	4619.	0.072
1337.5	0.214	4619.5	0.066
1338.	0.217	4620.	0.075
1338.5	0.218	4620.5	0.071
1339.	0.214	4621.	0.074
1339.5	0.212	4621.5	0.068
1340.	0.218	4622.	0.078
1340.5	0.21	4622.5	0.076
1341.	0.213	4623.	0.07
1341.5	0.218	4623.5	0.073
1342.	0.218	4624.	0.066
1342.5	0.219	4624.5	0.07
1343.	0.221	4625.	0.065
1343.5	0.212	4625.5	0.069
1344.	0.217	4626.	0.073
1344.5	0.218	4626.5	0.072
1345.	0.218	4627.	0.07
1345.5	0.215	4627.5	0.068
1346.	0.216	4628.	0.073
1346.5	0.217	4628.5	0.064
1347.	0.216	4629.	0.072
1347.5	0.211	4629.5	0.08
1348.	0.224	4630.	0.074
1348.5	0.216	4630.5	0.072
1349.	0.209	4631.	0.064
1349.5	0.216	4631.5	0.068
1350.	0.215	4632.	0.07
1350.5	0.21	4632.5	0.07
1351.	0.216	4633.	0.07
1351.5	0.216	4633.5	0.076
1352.	0.21	4634.	0.07
1352.5	0.218	4634.5	0.065
1353.	0.216	4635.	0.069
1353.5	0.211	4635.5	0.073
1354.	0.218	4636.	0.068
1354.5	0.216	4636.5	0.069
1355.	0.218	4637.	0.072
1355.5	0.216	4637.5	0.072
1356.	0.213	4638.	0.075
1356.5	0.209	4638.5	0.074
1357.	0.215	4639.	0.072
1357.5	0.22	4639.5	0.069

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1358.	0.216	4640.	0.075
1358.5	0.217	4640.5	0.069
1359.	0.216	4641.	0.072
1359.5	0.21	4641.5	0.074
1360.	0.214	4642.	0.07
1360.5	0.214	4642.5	0.074
1361.	0.218	4643.	0.074
1361.5	0.219	4643.5	0.074
1362.	0.212	4644.	0.074
1362.5	0.215	4644.5	0.066
1363.	0.212	4645.	0.071
1363.5	0.213	4645.5	0.074
1364.	0.213	4646.	0.064
1364.5	0.213	4646.5	0.074
1365.	0.21	4647.	0.068
1365.5	0.212	4647.5	0.07
1366.	0.215	4648.	0.074
1366.5	0.212	4648.5	0.074
1367.	0.218	4649.	0.071
1367.5	0.213	4649.5	0.072
1368.	0.214	4650.	0.073
1368.5	0.211	4650.5	0.072
1369.	0.221	4651.	0.07
1369.5	0.21	4651.5	0.072
1370.	0.212	4652.	0.069
1370.5	0.211	4652.5	0.071
1371.	0.212	4653.	0.07
1371.5	0.218	4653.5	0.067
1372.	0.22	4654.	0.072
1372.5	0.211	4654.5	0.077
1373.	0.215	4655.	0.071
1373.5	0.217	4655.5	0.074
1374.	0.222	4656.	0.071
1374.5	0.21	4656.5	0.074
1375.	0.216	4657.	0.073
1375.5	0.211	4657.5	0.073
1376.	0.21	4658.	0.07
1376.5	0.216	4658.5	0.067
1377.	0.214	4659.	0.074
1377.5	0.216	4659.5	0.073
1378.	0.217	4660.	0.068
1378.5	0.212	4660.5	0.068
1379.	0.212	4661.	0.069
1379.5	0.202	4661.5	0.068
1380.	0.207	4662.	0.071
1380.5	0.21	4662.5	0.067
1381.	0.213	4663.	0.08
1381.5	0.205	4663.5	0.075
1382.	0.212	4664.	0.071
1382.5	0.213	4664.5	0.065
1383.	0.207	4665.	0.07
1383.5	0.217	4665.5	0.076
1384.	0.213	4666.	0.077
1384.5	0.209	4666.5	0.07
1385.	0.218	4667.	0.074
1385.5	0.209	4667.5	0.073
1386.	0.213	4668.	0.077
1386.5	0.205	4668.5	0.074
1387.	0.21	4669.	0.07
1387.5	0.204	4669.5	0.07
1388.	0.21	4670.	0.075
1388.5	0.21	4670.5	0.072
1389.	0.203	4671.	0.068
1389.5	0.214	4671.5	0.072
1390.	0.213	4672.	0.076
1390.5	0.217	4672.5	0.072
1391.	0.216	4673.	0.073

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1391.5	0.208	4673.5	0.067
1392.	0.213	4674.	0.071
1392.5	0.21	4674.5	0.065
1393.	0.212	4675.	0.069
1393.5	0.213	4675.5	0.072
1394.	0.212	4676.	0.071
1394.5	0.207	4676.5	0.07
1395.	0.215	4677.	0.074
1395.5	0.206	4677.5	0.073
1396.	0.211	4678.	0.07
1396.5	0.213	4678.5	0.075
1397.	0.211	4679.	0.071
1397.5	0.207	4679.5	0.074
1398.	0.209	4680.	0.071
1398.5	0.212	4680.5	0.074
1399.	0.211	4681.	0.068
1399.5	0.206	4681.5	0.076
1400.	0.211	4682.	0.068
1400.5	0.207	4682.5	0.071
1401.	0.206	4683.	0.071
1401.5	0.214	4683.5	0.074
1402.	0.206	4684.	0.068
1402.5	0.212	4684.5	0.069
1403.	0.214	4685.	0.074
1403.5	0.211	4685.5	0.068
1404.	0.206	4686.	0.079
1404.5	0.208	4686.5	0.072
1405.	0.207	4687.	0.079
1405.5	0.206	4687.5	0.067
1406.	0.206	4688.	0.072
1406.5	0.207	4688.5	0.074
1407.	0.207	4689.	0.074
1407.5	0.207	4689.5	0.074
1408.	0.209	4690.	0.072
1408.5	0.207	4690.5	0.072
1409.	0.206	4691.	0.068
1409.5	0.205	4691.5	0.072
1410.	0.208	4692.	0.072
1410.5	0.215	4692.5	0.075
1411.	0.204	4693.	0.077
1411.5	0.203	4693.5	0.073
1412.	0.208	4694.	0.071
1412.5	0.208	4694.5	0.074
1413.	0.208	4695.	0.07
1413.5	0.212	4695.5	0.07
1414.	0.21	4696.	0.069
1414.5	0.205	4696.5	0.076
1415.	0.203	4697.	0.071
1415.5	0.206	4697.5	0.074
1416.	0.202	4698.	0.07
1416.5	0.206	4698.5	0.075
1417.	0.21	4699.	0.077
1417.5	0.205	4699.5	0.072
1418.	0.208	4700.	0.077
1418.5	0.206	4700.5	0.074
1419.	0.207	4701.	0.073
1419.5	0.211	4701.5	0.071
1420.	0.207	4702.	0.074
1420.5	0.211	4702.5	0.072
1421.	0.2	4703.	0.071
1421.5	0.211	4703.5	0.075
1422.	0.212	4704.	0.073
1422.5	0.208	4704.5	0.069
1423.	0.203	4705.	0.069
1423.5	0.205	4705.5	0.067
1424.	0.206	4706.	0.067
1424.5	0.205	4706.5	0.068

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1425.	0.204	4707.	0.074
1425.5	0.201	4707.5	0.067
1426.	0.207	4708.	0.071
1426.5	0.201	4708.5	0.072
1427.	0.206	4709.	0.071
1427.5	0.205	4709.5	0.067
1428.	0.202	4710.	0.067
1428.5	0.199	4710.5	0.073
1429.	0.202	4711.	0.075
1429.5	0.202	4711.5	0.073
1430.	0.202	4712.	0.077
1430.5	0.211	4712.5	0.074
1431.	0.209	4713.	0.067
1431.5	0.205	4713.5	0.075
1432.	0.209	4714.	0.074
1432.5	0.206	4714.5	0.073
1433.	0.203	4715.	0.069
1433.5	0.208	4715.5	0.075
1434.	0.202	4716.	0.071
1434.5	0.21	4716.5	0.077
1435.	0.202	4717.	0.071
1435.5	0.201	4717.5	0.073
1436.	0.207	4718.	0.071
1436.5	0.21	4718.5	0.069
1437.	0.208	4719.	0.074
1437.5	0.2	4719.5	0.073
1438.	0.202	4720.	0.066
1438.5	0.21	4720.5	0.071
1439.	0.207	4721.	0.072
1439.5	0.208	4721.5	0.074
1440.	0.205	4722.	0.072
1440.5	0.204	4722.5	0.068
1441.	0.202	4723.	0.075
1441.5	0.205	4723.5	0.073
1442.	0.205	4724.	0.069
1442.5	0.205	4724.5	0.075
1443.	0.21	4725.	0.069
1443.5	0.204	4725.5	0.07
1444.	0.21	4726.	0.072
1444.5	0.208	4726.5	0.073
1445.	0.201	4727.	0.07
1445.5	0.205	4727.5	0.068
1446.	0.203	4728.	0.067
1446.5	0.205	4728.5	0.074
1447.	0.201	4729.	0.074
1447.5	0.203	4729.5	0.067
1448.	0.2	4730.	0.073
1448.5	0.203	4730.5	0.075
1449.	0.204	4731.	0.072
1449.5	0.208	4731.5	0.076
1450.	0.203	4732.	0.069
1450.5	0.202	4732.5	0.075
1451.	0.205	4733.	0.077
1451.5	0.203	4733.5	0.068
1452.	0.206	4734.	0.071
1452.5	0.202	4734.5	0.072
1453.	0.201	4735.	0.077
1453.5	0.198	4735.5	0.072
1454.	0.202	4736.	0.069
1454.5	0.199	4736.5	0.076
1455.	0.196	4737.	0.073
1455.5	0.207	4737.5	0.068
1456.	0.202	4738.	0.074
1456.5	0.202	4738.5	0.07
1457.	0.202	4739.	0.073
1457.5	0.203	4739.5	0.073
1458.	0.203	4740.	0.074

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1458.5	0.199	4740.5	0.07
1459.	0.196	4741.	0.07
1459.5	0.203	4741.5	0.076
1460.	0.204	4742.	0.074
1460.5	0.207	4742.5	0.07
1461.	0.202	4743.	0.07
1461.5	0.198	4743.5	0.077
1462.	0.204	4744.	0.075
1462.5	0.201	4744.5	0.074
1463.	0.203	4745.	0.073
1463.5	0.204	4745.5	0.07
1464.	0.202	4746.	0.069
1464.5	0.203	4746.5	0.069
1465.	0.198	4747.	0.072
1465.5	0.2	4747.5	0.072
1466.	0.202	4748.	0.074
1466.5	0.205	4748.5	0.067
1467.	0.196	4749.	0.067
1467.5	0.2	4749.5	0.072
1468.	0.205	4750.	0.078
1468.5	0.202	4750.5	0.065
1469.	0.198	4751.	0.071
1469.5	0.2	4751.5	0.073
1470.	0.196	4752.	0.075
1470.5	0.2	4752.5	0.068
1471.	0.203	4753.	0.07
1471.5	0.2	4753.5	0.072
1472.	0.2	4754.	0.074
1472.5	0.203	4754.5	0.076
1473.	0.195	4755.	0.072
1473.5	0.204	4755.5	0.068
1474.	0.203	4756.	0.07
1474.5	0.2	4756.5	0.073
1475.	0.202	4757.	0.068
1475.5	0.194	4757.5	0.072
1476.	0.196	4758.	0.073
1476.5	0.197	4758.5	0.069
1477.	0.196	4759.	0.076
1477.5	0.206	4759.5	0.065
1478.	0.202	4760.	0.073
1478.5	0.199	4760.5	0.068
1479.	0.2	4761.	0.07
1479.5	0.19	4761.5	0.074
1480.	0.204	4762.	0.071
1480.5	0.202	4762.5	0.068
1481.	0.203	4763.	0.074
1481.5	0.198	4763.5	0.069
1482.	0.2	4764.	0.071
1482.5	0.203	4764.5	0.071
1483.	0.2	4765.	0.067
1483.5	0.198	4765.5	0.07
1484.	0.199	4766.	0.066
1484.5	0.198	4766.5	0.07
1485.	0.201	4767.	0.071
1485.5	0.197	4767.5	0.071
1486.	0.194	4768.	0.072
1486.5	0.202	4768.5	0.067
1487.	0.198	4769.	0.067
1487.5	0.199	4769.5	0.068
1488.	0.199	4770.	0.073
1488.5	0.196	4770.5	0.072
1489.	0.196	4771.	0.075
1489.5	0.199	4771.5	0.072
1490.	0.2	4772.	0.067
1490.5	0.199	4772.5	0.067
1491.	0.195	4773.	0.067
1491.5	0.198	4773.5	0.072

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1492.	0.199	4774.	0.066
1492.5	0.2	4774.5	0.067
1493.	0.199	4775.	0.069
1493.5	0.196	4775.5	0.066
1494.	0.194	4776.	0.068
1494.5	0.199	4776.5	0.071
1495.	0.198	4777.	0.074
1495.5	0.199	4777.5	0.071
1496.	0.202	4778.	0.073
1496.5	0.201	4778.5	0.069
1497.	0.2	4779.	0.075
1497.5	0.198	4779.5	0.067
1498.	0.2	4780.	0.072
1498.5	0.196	4780.5	0.071
1499.	0.198	4781.	0.072
1499.5	0.196	4781.5	0.067
1500.	0.199	4782.	0.074
1500.5	0.192	4782.5	0.075
1501.	0.191	4783.	0.067
1501.5	0.197	4783.5	0.071
1502.	0.197	4784.	0.071
1502.5	0.201	4784.5	0.069
1503.	0.195	4785.	0.071
1503.5	0.195	4785.5	0.068
1504.	0.195	4786.	0.074
1504.5	0.2	4786.5	0.073
1505.	0.203	4787.	0.064
1505.5	0.199	4787.5	0.072
1506.	0.198	4788.	0.071
1506.5	0.197	4788.5	0.072
1507.	0.188	4789.	0.074
1507.5	0.196	4789.5	0.071
1508.	0.195	4790.	0.071
1508.5	0.192	4790.5	0.066
1509.	0.198	4791.	0.069
1509.5	0.192	4791.5	0.07
1510.	0.191	4792.	0.066
1510.5	0.199	4792.5	0.073
1511.	0.197	4793.	0.075
1511.5	0.198	4793.5	0.073
1512.	0.198	4794.	0.072
1512.5	0.195	4794.5	0.066
1513.	0.196	4795.	0.076
1513.5	0.194	4795.5	0.069
1514.	0.198	4796.	0.072
1514.5	0.199	4796.5	0.066
1515.	0.196	4797.	0.065
1515.5	0.197	4797.5	0.068
1516.	0.2	4798.	0.073
1516.5	0.191	4798.5	0.069
1517.	0.195	4799.	0.065
1517.5	0.2	4799.5	0.065
1518.	0.19	4800.	0.069
1518.5	0.196	4800.5	0.07
1519.	0.193	4801.	0.071
1519.5	0.191	4801.5	0.069
1520.	0.195	4802.	0.07
1520.5	0.189	4802.5	0.073
1521.	0.191	4803.	0.072
1521.5	0.197	4803.5	0.067
1522.	0.193	4804.	0.07
1522.5	0.199	4804.5	0.071
1523.	0.194	4805.	0.068
1523.5	0.195	4805.5	0.068
1524.	0.193	4806.	0.073
1524.5	0.191	4806.5	0.068
1525.	0.197	4807.	0.072

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1525.5	0.195	4807.5	0.07
1526.	0.195	4808.	0.069
1526.5	0.198	4808.5	0.065
1527.	0.195	4809.	0.069
1527.5	0.196	4809.5	0.069
1528.	0.191	4810.	0.067
1528.5	0.193	4810.5	0.066
1529.	0.192	4811.	0.065
1529.5	0.196	4811.5	0.067
1530.	0.197	4812.	0.072
1530.5	0.199	4812.5	0.068
1531.	0.194	4813.	0.069
1531.5	0.197	4813.5	0.064
1532.	0.187	4814.	0.067
1532.5	0.195	4814.5	0.07
1533.	0.195	4815.	0.065
1533.5	0.196	4815.5	0.063
1534.	0.192	4816.	0.074
1534.5	0.192	4816.5	0.068
1535.	0.194	4817.	0.064
1535.5	0.192	4817.5	0.07
1536.	0.199	4818.	0.072
1536.5	0.196	4818.5	0.068
1537.	0.193	4819.	0.069
1537.5	0.187	4819.5	0.067
1538.	0.191	4820.	0.07
1538.5	0.19	4820.5	0.066
1539.	0.2	4821.	0.065
1539.5	0.195	4821.5	0.062
1540.	0.198	4822.	0.063
1540.5	0.193	4822.5	0.069
1541.	0.191	4823.	0.064
1541.5	0.195	4823.5	0.068
1542.	0.193	4824.	0.067
1542.5	0.195	4824.5	0.067
1543.	0.192	4825.	0.07
1543.5	0.191	4825.5	0.072
1544.	0.196	4826.	0.07
1544.5	0.191	4826.5	0.064
1545.	0.198	4827.	0.066
1545.5	0.195	4827.5	0.07
1546.	0.191	4828.	0.066
1546.5	0.187	4828.5	0.077
1547.	0.192	4829.	0.064
1547.5	0.196	4829.5	0.064
1548.	0.195	4830.	0.07
1548.5	0.189	4830.5	0.065
1549.	0.186	4831.	0.065
1549.5	0.193	4831.5	0.066
1550.	0.196	4832.	0.067
1550.5	0.193	4832.5	0.064
1551.	0.188	4833.	0.072
1551.5	0.19	4833.5	0.073
1552.	0.191	4834.	0.069
1552.5	0.192	4834.5	0.07
1553.	0.187	4835.	0.07
1553.5	0.19	4835.5	0.072
1554.	0.191	4836.	0.07
1554.5	0.186	4836.5	0.067
1555.	0.19	4837.	0.071
1555.5	0.19	4837.5	0.065
1556.	0.194	4838.	0.064
1556.5	0.194	4838.5	0.066
1557.	0.194	4839.	0.072
1557.5	0.196	4839.5	0.066
1558.	0.193	4840.	0.065
1558.5	0.191	4840.5	0.065

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1559.	0.189	4841.	0.07
1559.5	0.191	4841.5	0.068
1560.	0.19	4842.	0.063
1560.5	0.189	4842.5	0.066
1561.	0.191	4843.	0.068
1561.5	0.194	4843.5	0.065
1562.	0.195	4844.	0.066
1562.5	0.195	4844.5	0.067
1563.	0.191	4845.	0.072
1563.5	0.189	4845.5	0.068
1564.	0.191	4846.	0.068
1564.5	0.191	4846.5	0.066
1565.	0.193	4847.	0.069
1565.5	0.187	4847.5	0.065
1566.	0.198	4848.	0.071
1566.5	0.188	4848.5	0.07
1567.	0.186	4849.	0.065
1567.5	0.192	4849.5	0.066
1568.	0.186	4850.	0.072
1568.5	0.192	4850.5	0.066
1569.	0.19	4851.	0.064
1569.5	0.193	4851.5	0.064
1570.	0.184	4852.	0.068
1570.5	0.196	4852.5	0.064
1571.	0.196	4853.	0.066
1571.5	0.186	4853.5	0.066
1572.	0.19	4854.	0.066
1572.5	0.192	4854.5	0.066
1573.	0.199	4855.	0.072
1573.5	0.185	4855.5	0.069
1574.	0.188	4856.	0.068
1574.5	0.19	4856.5	0.068
1575.	0.189	4857.	0.066
1575.5	0.199	4857.5	0.063
1576.	0.192	4858.	0.067
1576.5	0.187	4858.5	0.064
1577.	0.187	4859.	0.069
1577.5	0.193	4859.5	0.067
1578.	0.194	4860.	0.073
1578.5	0.189	4860.5	0.068
1579.	0.192	4861.	0.07
1579.5	0.194	4861.5	0.065
1580.	0.187	4862.	0.071
1580.5	0.187	4862.5	0.062
1581.	0.194	4863.	0.071
1581.5	0.19	4863.5	0.065
1582.	0.185	4864.	0.063
1582.5	0.185	4864.5	0.07
1583.	0.186	4865.	0.071
1583.5	0.189	4865.5	0.06
1584.	0.188	4866.	0.069
1584.5	0.193	4866.5	0.068
1585.	0.188	4867.	0.071
1585.5	0.192	4867.5	0.067
1586.	0.184	4868.	0.065
1586.5	0.182	4868.5	0.07
1587.	0.192	4869.	0.069
1587.5	0.185	4869.5	0.061
1588.	0.19	4870.	0.071
1588.5	0.19	4870.5	0.065
1589.	0.191	4871.	0.069
1589.5	0.19	4871.5	0.064
1590.	0.19	4872.	0.069
1590.5	0.186	4872.5	0.069
1591.	0.187	4873.	0.065
1591.5	0.195	4873.5	0.069
1592.	0.188	4874.	0.071

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1592.5	0.186	4874.5	0.062
1593.	0.185	4875.	0.073
1593.5	0.19	4875.5	0.068
1594.	0.189	4876.	0.071
1594.5	0.186	4876.5	0.067
1595.	0.19	4877.	0.063
1595.5	0.187	4877.5	0.066
1596.	0.185	4878.	0.066
1596.5	0.193	4878.5	0.074
1597.	0.191	4879.	0.07
1597.5	0.186	4879.5	0.065
1598.	0.189	4880.	0.071
1598.5	0.189	4880.5	0.065
1599.	0.187	4881.	0.066
1599.5	0.187	4881.5	0.064
1600.	0.189	4882.	0.064
1600.5	0.187	4882.5	0.066
1601.	0.185	4883.	0.075
1601.5	0.189	4883.5	0.071
1602.	0.192	4884.	0.065
1602.5	0.193	4884.5	0.068
1603.	0.194	4885.	0.073
1603.5	0.19	4885.5	0.073
1604.	0.184	4886.	0.067
1604.5	0.189	4886.5	0.066
1605.	0.18	4887.	0.07
1605.5	0.179	4887.5	0.067
1606.	0.191	4888.	0.068
1606.5	0.187	4888.5	0.061
1607.	0.185	4889.	0.067
1607.5	0.187	4889.5	0.068
1608.	0.19	4890.	0.072
1608.5	0.19	4890.5	0.074
1609.	0.187	4891.	0.068
1609.5	0.183	4891.5	0.064
1610.	0.183	4892.	0.074
1610.5	0.192	4892.5	0.067
1611.	0.188	4893.	0.07
1611.5	0.189	4893.5	0.066
1612.	0.188	4894.	0.071
1612.5	0.187	4894.5	0.069
1613.	0.186	4895.	0.072
1613.5	0.19	4895.5	0.069
1614.	0.183	4896.	0.07
1614.5	0.183	4896.5	0.066
1615.	0.186	4897.	0.075
1615.5	0.187	4897.5	0.068
1616.	0.185	4898.	0.068
1616.5	0.183	4898.5	0.073
1617.	0.185	4899.	0.07
1617.5	0.182	4899.5	0.071
1618.	0.187	4900.	0.063
1618.5	0.176	4900.5	0.065
1619.	0.185	4901.	0.067
1619.5	0.181	4901.5	0.066
1620.	0.183	4902.	0.067
1620.5	0.183	4902.5	0.069
1621.	0.179	4903.	0.065
1621.5	0.186	4903.5	0.073
1622.	0.184	4904.	0.063
1622.5	0.18	4904.5	0.064
1623.	0.182	4905.	0.072
1623.5	0.184	4905.5	0.07
1624.	0.185	4906.	0.07
1624.5	0.18	4906.5	0.065
1625.	0.187	4907.	0.071
1625.5	0.187	4907.5	0.072

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1626.	0.184	4908.	0.07
1626.5	0.188	4908.5	0.065
1627.	0.186	4909.	0.072
1627.5	0.192	4909.5	0.068
1628.	0.188	4910.	0.07
1628.5	0.186	4910.5	0.068
1629.	0.182	4911.	0.073
1629.5	0.181	4911.5	0.067
1630.	0.184	4912.	0.068
1630.5	0.186	4912.5	0.071
1631.	0.181	4913.	0.069
1631.5	0.185	4913.5	0.07
1632.	0.189	4914.	0.068
1632.5	0.184	4914.5	0.066
1633.	0.185	4915.	0.072
1633.5	0.185	4915.5	0.068
1634.	0.189	4916.	0.07
1634.5	0.18	4916.5	0.07
1635.	0.188	4917.	0.076
1635.5	0.183	4917.5	0.067
1636.	0.18	4918.	0.067
1636.5	0.183	4918.5	0.075
1637.	0.188	4919.	0.068
1637.5	0.183	4919.5	0.066
1638.	0.187	4920.	0.068
1638.5	0.184	4920.5	0.072
1639.	0.182	4921.	0.069
1639.5	0.182	4921.5	0.066
1640.	0.185	4922.	0.069
1640.5	0.189	4922.5	0.064
1641.	0.188	4923.	0.071
1641.5	0.18	4923.5	0.068
1642.	0.185	4924.	0.071
1642.5	0.179	4924.5	0.073
1643.	0.182	4925.	0.07
1643.5	0.185	4925.5	0.07
1644.	0.18	4926.	0.065
1644.5	0.185	4926.5	0.07
1645.	0.177	4927.	0.072
1645.5	0.183	4927.5	0.068
1646.	0.19	4928.	0.072
1646.5	0.181	4928.5	0.067
1647.	0.179	4929.	0.07
1647.5	0.181	4929.5	0.067
1648.	0.185	4930.	0.065
1648.5	0.185	4930.5	0.07
1649.	0.184	4931.	0.076
1649.5	0.186	4931.5	0.07
1650.	0.181	4932.	0.07
1650.5	0.177	4932.5	0.069
1651.	0.184	4933.	0.074
1651.5	0.186	4933.5	0.072
1652.	0.185	4934.	0.071
1652.5	0.18	4934.5	0.074
1653.	0.176	4935.	0.075
1653.5	0.186	4935.5	0.069
1654.	0.179	4936.	0.071
1654.5	0.183	4936.5	0.066
1655.	0.178	4937.	0.074
1655.5	0.186	4937.5	0.068
1656.	0.186	4938.	0.077
1656.5	0.18	4938.5	0.065
1657.	0.184	4939.	0.072
1657.5	0.184	4939.5	0.068
1658.	0.189	4940.	0.07
1658.5	0.184	4940.5	0.07
1659.	0.184	4941.	0.07

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1659.5	0.186	4941.5	0.064
1660.	0.18	4942.	0.074
1660.5	0.183	4942.5	0.071
1661.	0.182	4943.	0.072
1661.5	0.181	4943.5	0.073
1662.	0.182	4944.	0.075
1662.5	0.178	4944.5	0.07
1663.	0.18	4945.	0.069
1663.5	0.176	4945.5	0.064
1664.	0.178	4946.	0.069
1664.5	0.184	4946.5	0.07
1665.	0.175	4947.	0.074
1665.5	0.181	4947.5	0.064
1666.	0.178	4948.	0.072
1666.5	0.182	4948.5	0.064
1667.	0.183	4949.	0.07
1667.5	0.179	4949.5	0.065
1668.	0.182	4950.	0.067
1668.5	0.183	4950.5	0.065
1669.	0.178	4951.	0.069
1669.5	0.181	4951.5	0.07
1670.	0.18	4952.	0.073
1670.5	0.185	4952.5	0.065
1671.	0.184	4953.	0.066
1671.5	0.179	4953.5	0.072
1672.	0.182	4954.	0.075
1672.5	0.177	4954.5	0.066
1673.	0.179	4955.	0.068
1673.5	0.18	4955.5	0.067
1674.	0.176	4956.	0.068
1674.5	0.177	4956.5	0.07
1675.	0.179	4957.	0.075
1675.5	0.179	4957.5	0.067
1676.	0.181	4958.	0.073
1676.5	0.18	4958.5	0.068
1677.	0.187	4959.	0.071
1677.5	0.178	4959.5	0.068
1678.	0.178	4960.	0.071
1678.5	0.18	4960.5	0.07
1679.	0.178	4961.	0.066
1679.5	0.177	4961.5	0.068
1680.	0.179	4962.	0.064
1680.5	0.177	4962.5	0.068
1681.	0.174	4963.	0.069
1681.5	0.184	4963.5	0.069
1682.	0.173	4964.	0.068
1682.5	0.182	4964.5	0.067
1683.	0.177	4965.	0.069
1683.5	0.176	4965.5	0.072
1684.	0.18	4966.	0.069
1684.5	0.178	4966.5	0.068
1685.	0.176	4967.	0.07
1685.5	0.175	4967.5	0.068
1686.	0.178	4968.	0.073
1686.5	0.18	4968.5	0.072
1687.	0.186	4969.	0.072
1687.5	0.176	4969.5	0.068
1688.	0.18	4970.	0.066
1688.5	0.172	4970.5	0.071
1689.	0.177	4971.	0.068
1689.5	0.179	4971.5	0.069
1690.	0.178	4972.	0.067
1690.5	0.179	4972.5	0.067
1691.	0.179	4973.	0.068
1691.5	0.172	4973.5	0.065
1692.	0.18	4974.	0.069
1692.5	0.181	4974.5	0.071

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1693.	0.181	4975.	0.071
1693.5	0.181	4975.5	0.066
1694.	0.177	4976.	0.075
1694.5	0.173	4976.5	0.07
1695.	0.173	4977.	0.07
1695.5	0.176	4977.5	0.07
1696.	0.175	4978.	0.072
1696.5	0.174	4978.5	0.069
1697.	0.169	4979.	0.064
1697.5	0.179	4979.5	0.065
1698.	0.175	4980.	0.066
1698.5	0.18	4980.5	0.063
1699.	0.174	4981.	0.065
1699.5	0.182	4981.5	0.067
1700.	0.176	4982.	0.071
1700.5	0.173	4982.5	0.073
1701.	0.174	4983.	0.068
1701.5	0.172	4983.5	0.071
1702.	0.181	4984.	0.068
1702.5	0.174	4984.5	0.066
1703.	0.179	4985.	0.064
1703.5	0.177	4985.5	0.072
1704.	0.175	4986.	0.075
1704.5	0.175	4986.5	0.063
1705.	0.176	4987.	0.065
1705.5	0.173	4987.5	0.068
1706.	0.174	4988.	0.072
1706.5	0.174	4988.5	0.074
1707.	0.179	4989.	0.07
1707.5	0.179	4989.5	0.065
1708.	0.179	4990.	0.072
1708.5	0.177	4990.5	0.069
1709.	0.173	4991.	0.069
1709.5	0.18	4991.5	0.069
1710.	0.178	4992.	0.068
1710.5	0.174	4992.5	0.067
1711.	0.175	4993.	0.073
1711.5	0.182	4993.5	0.067
1712.	0.184	4994.	0.071
1712.5	0.17	4994.5	0.068
1713.	0.17	4995.	0.067
1713.5	0.18	4995.5	0.072
1714.	0.178	4996.	0.065
1714.5	0.178	4996.5	0.063
1715.	0.175	4997.	0.066
1715.5	0.172	4997.5	0.066
1716.	0.176	4998.	0.071
1716.5	0.175	4998.5	0.065
1717.	0.178	4999.	0.071
1717.5	0.178	4999.5	0.065
1718.	0.18	5000.	0.068
1718.5	0.174	5000.5	0.064
1719.	0.178	5001.	0.069
1719.5	0.174	5001.5	0.071
1720.	0.177	5002.	0.073
1720.5	0.181	5002.5	0.067
1721.	0.178	5003.	0.071
1721.5	0.174	5003.5	0.067
1722.	0.179	5004.	0.071
1722.5	0.177	5004.5	0.069
1723.	0.171	5005.	0.068
1723.5	0.172	5005.5	0.068
1724.	0.173	5006.	0.068
1724.5	0.174	5006.5	0.068
1725.	0.177	5007.	0.072
1725.5	0.175	5007.5	0.069
1726.	0.173	5008.	0.073

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1726.5	0.172	5008.5	0.069
1727.	0.174	5009.	0.067
1727.5	0.177	5009.5	0.067
1728.	0.178	5010.	0.068
1728.5	0.174	5010.5	0.072
1729.	0.171	5011.	0.064
1729.5	0.171	5011.5	0.065
1730.	0.176	5012.	0.068
1730.5	0.174	5012.5	0.064
1731.	0.175	5013.	0.057
1731.5	0.176	5013.5	0.068
1732.	0.173	5014.	0.062
1732.5	0.172	5014.5	0.071
1733.	0.173	5015.	0.073
1733.5	0.176	5015.5	0.068
1734.	0.173	5016.	0.066
1734.5	0.173	5016.5	0.065
1735.	0.174	5017.	0.073
1735.5	0.173	5017.5	0.068
1736.	0.168	5018.	0.069
1736.5	0.178	5018.5	0.07
1737.	0.167	5019.	0.067
1737.5	0.17	5019.5	0.072
1738.	0.172	5020.	0.068
1738.5	0.178	5020.5	0.065
1739.	0.175	5021.	0.069
1739.5	0.17	5021.5	0.067
1740.	0.171	5022.	0.069
1740.5	0.174	5022.5	0.069
1741.	0.172	5023.	0.065
1741.5	0.175	5023.5	0.066
1742.	0.168	5024.	0.067
1742.5	0.172	5024.5	0.064
1743.	0.177	5025.	0.068
1743.5	0.179	5025.5	0.07
1744.	0.171	5026.	0.071
1744.5	0.171	5026.5	0.065
1745.	0.171	5027.	0.068
1745.5	0.167	5027.5	0.068
1746.	0.173	5028.	0.069
1746.5	0.17	5028.5	0.065
1747.	0.173	5029.	0.067
1747.5	0.173	5029.5	0.07
1748.	0.171	5030.	0.073
1748.5	0.172	5030.5	0.064
1749.	0.175	5031.	0.066
1749.5	0.175	5031.5	0.068
1750.	0.172	5032.	0.071
1750.5	0.176	5032.5	0.065
1751.	0.174	5033.	0.065
1751.5	0.173	5033.5	0.064
1752.	0.169	5034.	0.068
1752.5	0.181	5034.5	0.069
1753.	0.172	5035.	0.074
1753.5	0.172	5035.5	0.067
1754.	0.172	5036.	0.072
1754.5	0.166	5036.5	0.062
1755.	0.169	5037.	0.073
1755.5	0.176	5037.5	0.07
1756.	0.17	5038.	0.069
1756.5	0.179	5038.5	0.066
1757.	0.179	5039.	0.068
1757.5	0.175	5039.5	0.061
1758.	0.174	5040.	0.065
1758.5	0.172	5040.5	0.067
1759.	0.178	5041.	0.07
1759.5	0.169	5041.5	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1760.	0.172	5042.	0.067
1760.5	0.172	5042.5	0.065
1761.	0.175	5043.	0.066
1761.5	0.173	5043.5	0.072
1762.	0.171	5044.	0.069
1762.5	0.173	5044.5	0.06
1763.	0.17	5045.	0.069
1763.5	0.168	5045.5	0.065
1764.	0.175	5046.	0.074
1764.5	0.174	5046.5	0.068
1765.	0.168	5047.	0.07
1765.5	0.174	5047.5	0.072
1766.	0.17	5048.	0.075
1766.5	0.174	5048.5	0.067
1767.	0.17	5049.	0.07
1767.5	0.17	5049.5	0.072
1768.	0.174	5050.	0.062
1768.5	0.171	5050.5	0.07
1769.	0.171	5051.	0.074
1769.5	0.163	5051.5	0.067
1770.	0.173	5052.	0.064
1770.5	0.172	5052.5	0.07
1771.	0.173	5053.	0.065
1771.5	0.177	5053.5	0.07
1772.	0.17	5054.	0.07
1772.5	0.175	5054.5	0.065
1773.	0.171	5055.	0.066
1773.5	0.168	5055.5	0.071
1774.	0.172	5056.	0.071
1774.5	0.174	5056.5	0.065
1775.	0.175	5057.	0.068
1775.5	0.172	5057.5	0.067
1776.	0.174	5058.	0.065
1776.5	0.172	5058.5	0.064
1777.	0.172	5059.	0.065
1777.5	0.167	5059.5	0.069
1778.	0.168	5060.	0.067
1778.5	0.169	5060.5	0.068
1779.	0.171	5061.	0.062
1779.5	0.17	5061.5	0.068
1780.	0.17	5062.	0.065
1780.5	0.17	5062.5	0.069
1781.	0.168	5063.	0.074
1781.5	0.173	5063.5	0.068
1782.	0.17	5064.	0.071
1782.5	0.167	5064.5	0.07
1783.	0.17	5065.	0.071
1783.5	0.17	5065.5	0.071
1784.	0.17	5066.	0.067
1784.5	0.171	5066.5	0.067
1785.	0.167	5067.	0.069
1785.5	0.169	5067.5	0.073
1786.	0.173	5068.	0.067
1786.5	0.168	5068.5	0.061
1787.	0.165	5069.	0.071
1787.5	0.168	5069.5	0.066
1788.	0.169	5070.	0.061
1788.5	0.168	5070.5	0.065
1789.	0.17	5071.	0.072
1789.5	0.167	5071.5	0.064
1790.	0.169	5072.	0.068
1790.5	0.175	5072.5	0.067
1791.	0.169	5073.	0.069
1791.5	0.165	5073.5	0.067
1792.	0.17	5074.	0.066
1792.5	0.165	5074.5	0.065
1793.	0.174	5075.	0.072

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1793.5	0.174	5075.5	0.065
1794.	0.169	5076.	0.062
1794.5	0.169	5076.5	0.065
1795.	0.164	5077.	0.071
1795.5	0.168	5077.5	0.074
1796.	0.173	5078.	0.066
1796.5	0.167	5078.5	0.066
1797.	0.168	5079.	0.07
1797.5	0.165	5079.5	0.07
1798.	0.171	5080.	0.068
1798.5	0.17	5080.5	0.062
1799.	0.176	5081.	0.067
1799.5	0.169	5081.5	0.071
1800.	0.166	5082.	0.073
1800.5	0.162	5082.5	0.069
1801.	0.164	5083.	0.066
1801.5	0.167	5083.5	0.064
1802.	0.167	5084.	0.069
1802.5	0.171	5084.5	0.07
1803.	0.174	5085.	0.067
1803.5	0.166	5085.5	0.063
1804.	0.17	5086.	0.073
1804.5	0.169	5086.5	0.066
1805.	0.167	5087.	0.07
1805.5	0.168	5087.5	0.066
1806.	0.161	5088.	0.074
1806.5	0.167	5088.5	0.071
1807.	0.166	5089.	0.066
1807.5	0.163	5089.5	0.072
1808.	0.16	5090.	0.067
1808.5	0.167	5090.5	0.072
1809.	0.163	5091.	0.07
1809.5	0.168	5091.5	0.069
1810.	0.166	5092.	0.071
1810.5	0.166	5092.5	0.07
1811.	0.165	5093.	0.071
1811.5	0.166	5093.5	0.069
1812.	0.165	5094.	0.063
1812.5	0.167	5094.5	0.067
1813.	0.163	5095.	0.076
1813.5	0.166	5095.5	0.074
1814.	0.164	5096.	0.064
1814.5	0.171	5096.5	0.065
1815.	0.165	5097.	0.066
1815.5	0.162	5097.5	0.062
1816.	0.166	5098.	0.071
1816.5	0.162	5098.5	0.063
1817.	0.162	5099.	0.066
1817.5	0.172	5099.5	0.067
1818.	0.167	5100.	0.065
1818.5	0.165	5100.5	0.07
1819.	0.16	5101.	0.065
1819.5	0.164	5101.5	0.066
1820.	0.167	5102.	0.065
1820.5	0.162	5102.5	0.063
1821.	0.167	5103.	0.062
1821.5	0.165	5103.5	0.063
1822.	0.173	5104.	0.063
1822.5	0.159	5104.5	0.068
1823.	0.169	5105.	0.069
1823.5	0.17	5105.5	0.068
1824.	0.163	5106.	0.069
1824.5	0.168	5106.5	0.062
1825.	0.164	5107.	0.063
1825.5	0.164	5107.5	0.068
1826.	0.163	5108.	0.071
1826.5	0.164	5108.5	0.062

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1827.	0.169	5109.	0.069
1827.5	0.166	5109.5	0.066
1828.	0.171	5110.	0.064
1828.5	0.165	5110.5	0.065
1829.	0.17	5111.	0.068
1829.5	0.168	5111.5	0.066
1830.	0.164	5112.	0.068
1830.5	0.161	5112.5	0.067
1831.	0.164	5113.	0.065
1831.5	0.17	5113.5	0.071
1832.	0.165	5114.	0.068
1832.5	0.164	5114.5	0.068
1833.	0.159	5115.	0.063
1833.5	0.166	5115.5	0.067
1834.	0.165	5116.	0.065
1834.5	0.163	5116.5	0.062
1835.	0.162	5117.	0.072
1835.5	0.164	5117.5	0.058
1836.	0.164	5118.	0.064
1836.5	0.163	5118.5	0.069
1837.	0.165	5119.	0.065
1837.5	0.164	5119.5	0.061
1838.	0.17	5120.	0.066
1838.5	0.161	5120.5	0.065
1839.	0.165	5121.	0.065
1839.5	0.164	5121.5	0.066
1840.	0.162	5122.	0.066
1840.5	0.163	5122.5	0.061
1841.	0.163	5123.	0.068
1841.5	0.164	5123.5	0.068
1842.	0.169	5124.	0.07
1842.5	0.17	5124.5	0.071
1843.	0.166	5125.	0.07
1843.5	0.165	5125.5	0.071
1844.	0.165	5126.	0.068
1844.5	0.164	5126.5	0.071
1845.	0.166	5127.	0.073
1845.5	0.169	5127.5	0.065
1846.	0.165	5128.	0.071
1846.5	0.169	5128.5	0.062
1847.	0.168	5129.	0.065
1847.5	0.163	5129.5	0.071
1848.	0.17	5130.	0.065
1848.5	0.166	5130.5	0.069
1849.	0.164	5131.	0.07
1849.5	0.165	5131.5	0.072
1850.	0.163	5132.	0.065
1850.5	0.167	5132.5	0.066
1851.	0.164	5133.	0.067
1851.5	0.161	5133.5	0.069
1852.	0.171	5134.	0.065
1852.5	0.166	5134.5	0.069
1853.	0.166	5135.	0.068
1853.5	0.164	5135.5	0.066
1854.	0.161	5136.	0.072
1854.5	0.163	5136.5	0.066
1855.	0.17	5137.	0.069
1855.5	0.164	5137.5	0.066
1856.	0.164	5138.	0.072
1856.5	0.161	5138.5	0.075
1857.	0.166	5139.	0.07
1857.5	0.161	5139.5	0.067
1858.	0.165	5140.	0.07
1858.5	0.161	5140.5	0.074
1859.	0.165	5141.	0.069
1859.5	0.155	5141.5	0.065
1860.	0.165	5142.	0.066

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1860.5	0.167	5142.5	0.065
1861.	0.164	5143.	0.062
1861.5	0.163	5143.5	0.068
1862.	0.163	5144.	0.068
1862.5	0.163	5144.5	0.069
1863.	0.166	5145.	0.075
1863.5	0.167	5145.5	0.065
1864.	0.166	5146.	0.063
1864.5	0.166	5146.5	0.062
1865.	0.162	5147.	0.068
1865.5	0.163	5147.5	0.068
1866.	0.166	5148.	0.067
1866.5	0.163	5148.5	0.064
1867.	0.171	5149.	0.072
1867.5	0.168	5149.5	0.063
1868.	0.165	5150.	0.066
1868.5	0.163	5150.5	0.068
1869.	0.161	5151.	0.067
1869.5	0.162	5151.5	0.065
1870.	0.16	5152.	0.067
1870.5	0.159	5152.5	0.062
1871.	0.162	5153.	0.069
1871.5	0.165	5153.5	0.069
1872.	0.166	5154.	0.068
1872.5	0.159	5154.5	0.062
1873.	0.165	5155.	0.069
1873.5	0.164	5155.5	0.068
1874.	0.157	5156.	0.07
1874.5	0.161	5156.5	0.066
1875.	0.159	5157.	0.066
1875.5	0.162	5157.5	0.065
1876.	0.161	5158.	0.071
1876.5	0.162	5158.5	0.069
1877.	0.161	5159.	0.071
1877.5	0.16	5159.5	0.07
1878.	0.169	5160.	0.074
1878.5	0.167	5160.5	0.064
1879.	0.159	5161.	0.067
1879.5	0.166	5161.5	0.061
1880.	0.158	5162.	0.068
1880.5	0.167	5162.5	0.065
1881.	0.163	5163.	0.069
1881.5	0.162	5163.5	0.066
1882.	0.167	5164.	0.067
1882.5	0.166	5164.5	0.063
1883.	0.164	5165.	0.071
1883.5	0.164	5165.5	0.063
1884.	0.164	5166.	0.067
1884.5	0.161	5166.5	0.065
1885.	0.162	5167.	0.065
1885.5	0.162	5167.5	0.07
1886.	0.162	5168.	0.064
1886.5	0.163	5168.5	0.066
1887.	0.163	5169.	0.07
1887.5	0.166	5169.5	0.065
1888.	0.163	5170.	0.063
1888.5	0.159	5170.5	0.069
1889.	0.161	5171.	0.065
1889.5	0.162	5171.5	0.064
1890.	0.166	5172.	0.063
1890.5	0.163	5172.5	0.069
1891.	0.164	5173.	0.067
1891.5	0.162	5173.5	0.066
1892.	0.164	5174.	0.069
1892.5	0.154	5174.5	0.072
1893.	0.164	5175.	0.065
1893.5	0.161	5175.5	0.062

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1894.	0.162	5176.	0.061
1894.5	0.16	5176.5	0.063
1895.	0.163	5177.	0.068
1895.5	0.162	5177.5	0.066
1896.	0.165	5178.	0.066
1896.5	0.164	5178.5	0.073
1897.	0.162	5179.	0.065
1897.5	0.165	5179.5	0.067
1898.	0.16	5180.	0.068
1898.5	0.158	5180.5	0.069
1899.	0.163	5181.	0.069
1899.5	0.154	5181.5	0.064
1900.	0.163	5182.	0.072
1900.5	0.162	5182.5	0.064
1901.	0.162	5183.	0.063
1901.5	0.165	5183.5	0.072
1902.	0.164	5184.	0.068
1902.5	0.161	5184.5	0.065
1903.	0.165	5185.	0.068
1903.5	0.158	5185.5	0.067
1904.	0.16	5186.	0.069
1904.5	0.166	5186.5	0.067
1905.	0.162	5187.	0.07
1905.5	0.16	5187.5	0.066
1906.	0.161	5188.	0.068
1906.5	0.155	5188.5	0.07
1907.	0.166	5189.	0.065
1907.5	0.161	5189.5	0.065
1908.	0.155	5190.	0.071
1908.5	0.155	5190.5	0.066
1909.	0.159	5191.	0.07
1909.5	0.155	5191.5	0.067
1910.	0.158	5192.	0.07
1910.5	0.159	5192.5	0.065
1911.	0.161	5193.	0.072
1911.5	0.161	5193.5	0.069
1912.	0.16	5194.	0.076
1912.5	0.16	5194.5	0.064
1913.	0.16	5195.	0.068
1913.5	0.161	5195.5	0.066
1914.	0.16	5196.	0.07
1914.5	0.16	5196.5	0.063
1915.	0.163	5197.	0.063
1915.5	0.165	5197.5	0.067
1916.	0.161	5198.	0.072
1916.5	0.158	5198.5	0.062
1917.	0.162	5199.	0.075
1917.5	0.163	5199.5	0.063
1918.	0.162	5200.	0.068
1918.5	0.155	5200.5	0.06
1919.	0.163	5201.	0.066
1919.5	0.159	5201.5	0.064
1920.	0.168	5202.	0.065
1920.5	0.159	5202.5	0.068
1921.	0.159	5203.	0.067
1921.5	0.158	5203.5	0.065
1922.	0.164	5204.	0.068
1922.5	0.163	5204.5	0.063
1923.	0.163	5205.	0.066
1923.5	0.155	5205.5	0.059
1924.	0.159	5206.	0.072
1924.5	0.163	5206.5	0.068
1925.	0.162	5207.	0.067
1925.5	0.158	5207.5	0.066
1926.	0.159	5208.	0.067
1926.5	0.157	5208.5	0.068
1927.	0.157	5209.	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1927.5	0.151	5209.5	0.062
1928.	0.161	5210.	0.072
1928.5	0.149	5210.5	0.066
1929.	0.157	5211.	0.073
1929.5	0.158	5211.5	0.064
1930.	0.155	5212.	0.06
1930.5	0.162	5212.5	0.064
1931.	0.158	5213.	0.069
1931.5	0.152	5213.5	0.061
1932.	0.155	5214.	0.064
1932.5	0.159	5214.5	0.066
1933.	0.159	5215.	0.067
1933.5	0.153	5215.5	0.068
1934.	0.165	5216.	0.063
1934.5	0.158	5216.5	0.07
1935.	0.16	5217.	0.067
1935.5	0.155	5217.5	0.072
1936.	0.16	5218.	0.068
1936.5	0.157	5218.5	0.065
1937.	0.159	5219.	0.073
1937.5	0.152	5219.5	0.06
1938.	0.159	5220.	0.064
1938.5	0.154	5220.5	0.068
1939.	0.16	5221.	0.071
1939.5	0.154	5221.5	0.066
1940.	0.158	5222.	0.066
1940.5	0.158	5222.5	0.061
1941.	0.154	5223.	0.062
1941.5	0.155	5223.5	0.063
1942.	0.154	5224.	0.067
1942.5	0.155	5224.5	0.061
1943.	0.159	5225.	0.064
1943.5	0.156	5225.5	0.067
1944.	0.161	5226.	0.062
1944.5	0.16	5226.5	0.066
1945.	0.154	5227.	0.071
1945.5	0.156	5227.5	0.063
1946.	0.16	5228.	0.065
1946.5	0.151	5228.5	0.058
1947.	0.16	5229.	0.061
1947.5	0.16	5229.5	0.064
1948.	0.157	5230.	0.06
1948.5	0.154	5230.5	0.062
1949.	0.158	5231.	0.067
1949.5	0.149	5231.5	0.064
1950.	0.16	5232.	0.065
1950.5	0.16	5232.5	0.064
1951.	0.151	5233.	0.062
1951.5	0.152	5233.5	0.062
1952.	0.159	5234.	0.068
1952.5	0.155	5234.5	0.068
1953.	0.156	5235.	0.064
1953.5	0.154	5235.5	0.062
1954.	0.155	5236.	0.069
1954.5	0.154	5236.5	0.065
1955.	0.158	5237.	0.061
1955.5	0.156	5237.5	0.061
1956.	0.157	5238.	0.069
1956.5	0.156	5238.5	0.062
1957.	0.153	5239.	0.063
1957.5	0.159	5239.5	0.065
1958.	0.154	5240.	0.061
1958.5	0.156	5240.5	0.07
1959.	0.163	5241.	0.066
1959.5	0.151	5241.5	0.068
1960.	0.153	5242.	0.064
1960.5	0.156	5242.5	0.06

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1961.	0.156	5243.	0.072
1961.5	0.154	5243.5	0.06
1962.	0.156	5244.	0.066
1962.5	0.157	5244.5	0.065
1963.	0.152	5245.	0.061
1963.5	0.151	5245.5	0.061
1964.	0.149	5246.	0.064
1964.5	0.154	5246.5	0.066
1965.	0.153	5247.	0.068
1965.5	0.155	5247.5	0.062
1966.	0.156	5248.	0.065
1966.5	0.156	5248.5	0.063
1967.	0.156	5249.	0.065
1967.5	0.153	5249.5	0.063
1968.	0.153	5250.	0.066
1968.5	0.155	5250.5	0.064
1969.	0.155	5251.	0.065
1969.5	0.152	5251.5	0.067
1970.	0.155	5252.	0.069
1970.5	0.155	5252.5	0.064
1971.	0.158	5253.	0.064
1971.5	0.157	5253.5	0.062
1972.	0.151	5254.	0.065
1972.5	0.153	5254.5	0.066
1973.	0.153	5255.	0.066
1973.5	0.15	5255.5	0.062
1974.	0.154	5256.	0.075
1974.5	0.159	5256.5	0.061
1975.	0.155	5257.	0.064
1975.5	0.159	5257.5	0.064
1976.	0.156	5258.	0.067
1976.5	0.161	5258.5	0.066
1977.	0.161	5259.	0.066
1977.5	0.151	5259.5	0.062
1978.	0.161	5260.	0.065
1978.5	0.146	5260.5	0.067
1979.	0.154	5261.	0.066
1979.5	0.147	5261.5	0.065
1980.	0.152	5262.	0.066
1980.5	0.155	5262.5	0.063
1981.	0.156	5263.	0.067
1981.5	0.152	5263.5	0.063
1982.	0.157	5264.	0.062
1982.5	0.156	5264.5	0.059
1983.	0.156	5265.	0.065
1983.5	0.152	5265.5	0.071
1984.	0.157	5266.	0.066
1984.5	0.155	5266.5	0.065
1985.	0.151	5267.	0.063
1985.5	0.157	5267.5	0.067
1986.	0.158	5268.	0.069
1986.5	0.152	5268.5	0.064
1987.	0.154	5269.	0.064
1987.5	0.149	5269.5	0.064
1988.	0.148	5270.	0.069
1988.5	0.154	5270.5	0.064
1989.	0.15	5271.	0.061
1989.5	0.149	5271.5	0.064
1990.	0.15	5272.	0.064
1990.5	0.153	5272.5	0.065
1991.	0.15	5273.	0.063
1991.5	0.155	5273.5	0.063
1992.	0.153	5274.	0.065
1992.5	0.159	5274.5	0.068
1993.	0.157	5275.	0.067
1993.5	0.15	5275.5	0.067
1994.	0.152	5276.	0.063

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1994.5	0.151	5276.5	0.067
1995.	0.149	5277.	0.062
1995.5	0.153	5277.5	0.06
1996.	0.152	5278.	0.07
1996.5	0.157	5278.5	0.066
1997.	0.149	5279.	0.06
1997.5	0.155	5279.5	0.067
1998.	0.157	5280.	0.068
1998.5	0.154	5280.5	0.068
1999.	0.154	5281.	0.063
1999.5	0.153	5281.5	0.063
2000.	0.154	5282.	0.066
2000.5	0.154	5282.5	0.068
2001.	0.154	5283.	0.066
2001.5	0.153	5283.5	0.063
2002.	0.154	5284.	0.066
2002.5	0.154	5284.5	0.064
2003.	0.154	5285.	0.067
2003.5	0.155	5285.5	0.061
2004.	0.153	5286.	0.064
2004.5	0.15	5286.5	0.061
2005.	0.153	5287.	0.064
2005.5	0.157	5287.5	0.059
2006.	0.155	5288.	0.063
2006.5	0.151	5288.5	0.06
2007.	0.149	5289.	0.061
2007.5	0.151	5289.5	0.062
2008.	0.15	5290.	0.066
2008.5	0.153	5290.5	0.063
2009.	0.151	5291.	0.066
2009.5	0.153	5291.5	0.065
2010.	0.153	5292.	0.065
2010.5	0.151	5292.5	0.066
2011.	0.146	5293.	0.067
2011.5	0.149	5293.5	0.064
2012.	0.15	5294.	0.065
2012.5	0.152	5294.5	0.068
2013.	0.145	5295.	0.061
2013.5	0.149	5295.5	0.06
2014.	0.152	5296.	0.066
2014.5	0.149	5296.5	0.059
2015.	0.151	5297.	0.062
2015.5	0.153	5297.5	0.061
2016.	0.146	5298.	0.064
2016.5	0.151	5298.5	0.061
2017.	0.151	5299.	0.063
2017.5	0.15	5299.5	0.059
2018.	0.149	5300.	0.067
2018.5	0.154	5300.5	0.061
2019.	0.148	5301.	0.064
2019.5	0.154	5301.5	0.065
2020.	0.149	5302.	0.063
2020.5	0.144	5302.5	0.071
2021.	0.147	5303.	0.066
2021.5	0.147	5303.5	0.062
2022.	0.147	5304.	0.065
2022.5	0.152	5304.5	0.065
2023.	0.153	5305.	0.066
2023.5	0.149	5305.5	0.062
2024.	0.15	5306.	0.057
2024.5	0.149	5306.5	0.066
2025.	0.152	5307.	0.064
2025.5	0.155	5307.5	0.06
2026.	0.149	5308.	0.063
2026.5	0.144	5308.5	0.07
2027.	0.148	5309.	0.063
2027.5	0.146	5309.5	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2028.	0.148	5310.	0.068
2028.5	0.146	5310.5	0.06
2029.	0.144	5311.	0.069
2029.5	0.148	5311.5	0.065
2030.	0.151	5312.	0.06
2030.5	0.149	5312.5	0.066
2031.	0.15	5313.	0.072
2031.5	0.148	5313.5	0.062
2032.	0.153	5314.	0.064
2032.5	0.146	5314.5	0.067
2033.	0.151	5315.	0.065
2033.5	0.146	5315.5	0.057
2034.	0.147	5316.	0.068
2034.5	0.152	5316.5	0.066
2035.	0.149	5317.	0.061
2035.5	0.149	5317.5	0.066
2036.	0.147	5318.	0.063
2036.5	0.148	5318.5	0.059
2037.	0.15	5319.	0.069
2037.5	0.145	5319.5	0.066
2038.	0.153	5320.	0.067
2038.5	0.148	5320.5	0.065
2039.	0.144	5321.	0.063
2039.5	0.149	5321.5	0.062
2040.	0.148	5322.	0.066
2040.5	0.143	5322.5	0.063
2041.	0.149	5323.	0.068
2041.5	0.147	5323.5	0.069
2042.	0.149	5324.	0.065
2042.5	0.146	5324.5	0.063
2043.	0.149	5325.	0.062
2043.5	0.145	5325.5	0.065
2044.	0.15	5326.	0.062
2044.5	0.147	5326.5	0.058
2045.	0.146	5327.	0.072
2045.5	0.146	5327.5	0.066
2046.	0.148	5328.	0.063
2046.5	0.147	5328.5	0.059
2047.	0.151	5329.	0.064
2047.5	0.145	5329.5	0.059
2048.	0.147	5330.	0.06
2048.5	0.146	5330.5	0.064
2049.	0.144	5331.	0.065
2049.5	0.154	5331.5	0.061
2050.	0.138	5332.	0.066
2050.5	0.146	5332.5	0.069
2051.	0.148	5333.	0.07
2051.5	0.147	5333.5	0.064
2052.	0.147	5334.	0.07
2052.5	0.149	5334.5	0.066
2053.	0.143	5335.	0.062
2053.5	0.145	5335.5	0.063
2054.	0.144	5336.	0.065
2054.5	0.151	5336.5	0.06
2055.	0.146	5337.	0.061
2055.5	0.154	5337.5	0.064
2056.	0.145	5338.	0.065
2056.5	0.15	5338.5	0.059
2057.	0.148	5339.	0.059
2057.5	0.153	5339.5	0.062
2058.	0.139	5340.	0.064
2058.5	0.148	5340.5	0.064
2059.	0.15	5341.	0.065
2059.5	0.147	5341.5	0.062
2060.	0.147	5342.	0.061
2060.5	0.142	5342.5	0.06
2061.	0.155	5343.	0.059

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2061.5	0.145	5343.5	0.064
2062.	0.144	5344.	0.06
2062.5	0.153	5344.5	0.056
2063.	0.147	5345.	0.056
2063.5	0.145	5345.5	0.057
2064.	0.15	5346.	0.067
2064.5	0.154	5346.5	0.061
2065.	0.15	5347.	0.063
2065.5	0.15	5347.5	0.064
2066.	0.144	5348.	0.06
2066.5	0.148	5348.5	0.064
2067.	0.145	5349.	0.059
2067.5	0.148	5349.5	0.066
2068.	0.148	5350.	0.062
2068.5	0.148	5350.5	0.062
2069.	0.149	5351.	0.062
2069.5	0.147	5351.5	0.061
2070.	0.148	5352.	0.062
2070.5	0.145	5352.5	0.063
2071.	0.143	5353.	0.065
2071.5	0.14	5353.5	0.061
2072.	0.151	5354.	0.057
2072.5	0.151	5354.5	0.066
2073.	0.144	5355.	0.063
2073.5	0.146	5355.5	0.058
2074.	0.139	5356.	0.067
2074.5	0.15	5356.5	0.06
2075.	0.147	5357.	0.064
2075.5	0.149	5357.5	0.062
2076.	0.145	5358.	0.067
2076.5	0.144	5358.5	0.062
2077.	0.147	5359.	0.058
2077.5	0.146	5359.5	0.059
2078.	0.146	5360.	0.069
2078.5	0.147	5360.5	0.056
2079.	0.145	5361.	0.063
2079.5	0.148	5361.5	0.064
2080.	0.139	5362.	0.063
2080.5	0.145	5362.5	0.061
2081.	0.15	5363.	0.065
2081.5	0.145	5363.5	0.064
2082.	0.148	5364.	0.064
2082.5	0.149	5364.5	0.067
2083.	0.149	5365.	0.063
2083.5	0.15	5365.5	0.055
2084.	0.144	5366.	0.064
2084.5	0.147	5366.5	0.055
2085.	0.145	5367.	0.061
2085.5	0.149	5367.5	0.059
2086.	0.144	5368.	0.06
2086.5	0.143	5368.5	0.06
2087.	0.142	5369.	0.066
2087.5	0.139	5369.5	0.058
2088.	0.144	5370.	0.059
2088.5	0.149	5370.5	0.06
2089.	0.141	5371.	0.062
2089.5	0.146	5371.5	0.066
2090.	0.15	5372.	0.064
2090.5	0.146	5372.5	0.062
2091.	0.145	5373.	0.064
2091.5	0.15	5373.5	0.058
2092.	0.146	5374.	0.058
2092.5	0.148	5374.5	0.061
2093.	0.149	5375.	0.066
2093.5	0.143	5375.5	0.062
2094.	0.148	5376.	0.061
2094.5	0.147	5376.5	0.058

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2095.	0.141	5377.	0.063
2095.5	0.147	5377.5	0.063
2096.	0.143	5378.	0.063
2096.5	0.143	5378.5	0.057
2097.	0.142	5379.	0.064
2097.5	0.149	5379.5	0.061
2098.	0.14	5380.	0.064
2098.5	0.144	5380.5	0.061
2099.	0.147	5381.	0.061
2099.5	0.14	5381.5	0.059
2100.	0.144	5382.	0.06
2100.5	0.145	5382.5	0.063
2101.	0.146	5383.	0.063
2101.5	0.145	5383.5	0.059
2102.	0.141	5384.	0.063
2102.5	0.149	5384.5	0.061
2103.	0.141	5385.	0.068
2103.5	0.148	5385.5	0.064
2104.	0.143	5386.	0.062
2104.5	0.147	5386.5	0.061
2105.	0.142	5387.	0.059
2105.5	0.143	5387.5	0.059
2106.	0.145	5388.	0.063
2106.5	0.145	5388.5	0.062
2107.	0.14	5389.	0.064
2107.5	0.144	5389.5	0.06
2108.	0.143	5390.	0.06
2108.5	0.144	5390.5	0.061
2109.	0.144	5391.	0.061
2109.5	0.146	5391.5	0.062
2110.	0.145	5392.	0.059
2110.5	0.148	5392.5	0.061
2111.	0.144	5393.	0.061
2111.5	0.149	5393.5	0.06
2112.	0.143	5394.	0.064
2112.5	0.144	5394.5	0.062
2113.	0.15	5395.	0.066
2113.5	0.145	5395.5	0.06
2114.	0.141	5396.	0.066
2114.5	0.141	5396.5	0.064
2115.	0.146	5397.	0.064
2115.5	0.139	5397.5	0.064
2116.	0.144	5398.	0.061
2116.5	0.143	5398.5	0.064
2117.	0.142	5399.	0.06
2117.5	0.14	5399.5	0.062
2118.	0.147	5400.	0.057
2118.5	0.147	5400.5	0.066
2119.	0.142	5401.	0.066
2119.5	0.152	5401.5	0.062
2120.	0.146	5402.	0.062
2120.5	0.146	5402.5	0.06
2121.	0.144	5403.	0.066
2121.5	0.144	5403.5	0.062
2122.	0.143	5404.	0.061
2122.5	0.142	5404.5	0.056
2123.	0.145	5405.	0.06
2123.5	0.149	5405.5	0.065
2124.	0.137	5406.	0.062
2124.5	0.144	5406.5	0.059
2125.	0.148	5407.	0.07
2125.5	0.142	5407.5	0.063
2126.	0.14	5408.	0.061
2126.5	0.147	5408.5	0.062
2127.	0.144	5409.	0.064
2127.5	0.148	5409.5	0.06
2128.	0.14	5410.	0.064

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2128.5	0.144	5410.5	0.059
2129.	0.144	5411.	0.057
2129.5	0.147	5411.5	0.061
2130.	0.147	5412.	0.063
2130.5	0.142	5412.5	0.062
2131.	0.144	5413.	0.064
2131.5	0.15	5413.5	0.061
2132.	0.144	5414.	0.064
2132.5	0.142	5414.5	0.064
2133.	0.143	5415.	0.061
2133.5	0.147	5415.5	0.059
2134.	0.14	5416.	0.056
2134.5	0.148	5416.5	0.064
2135.	0.147	5417.	0.063
2135.5	0.137	5417.5	0.065
2136.	0.14	5418.	0.07
2136.5	0.146	5418.5	0.064
2137.	0.144	5419.	0.059
2137.5	0.145	5419.5	0.07
2138.	0.145	5420.	0.06
2138.5	0.145	5420.5	0.057
2139.	0.146	5421.	0.062
2139.5	0.137	5421.5	0.064
2140.	0.142	5422.	0.063
2140.5	0.147	5422.5	0.058
2141.	0.138	5423.	0.065
2141.5	0.149	5423.5	0.065
2142.	0.135	5424.	0.065
2142.5	0.139	5424.5	0.063
2143.	0.144	5425.	0.064
2143.5	0.141	5425.5	0.065
2144.	0.146	5426.	0.061
2144.5	0.145	5426.5	0.06
2145.	0.146	5427.	0.057
2145.5	0.138	5427.5	0.059
2146.	0.141	5428.	0.062
2146.5	0.145	5428.5	0.06
2147.	0.14	5429.	0.057
2147.5	0.15	5429.5	0.058
2148.	0.145	5430.	0.06
2148.5	0.138	5430.5	0.058
2149.	0.144	5431.	0.063
2149.5	0.145	5431.5	0.063
2150.	0.14	5432.	0.064
2150.5	0.146	5432.5	0.062
2151.	0.143	5433.	0.068
2151.5	0.143	5433.5	0.068
2152.	0.142	5434.	0.061
2152.5	0.138	5434.5	0.061
2153.	0.143	5435.	0.061
2153.5	0.149	5435.5	0.063
2154.	0.141	5436.	0.066
2154.5	0.143	5436.5	0.055
2155.	0.146	5437.	0.061
2155.5	0.146	5437.5	0.059
2156.	0.147	5438.	0.062
2156.5	0.144	5438.5	0.06
2157.	0.142	5439.	0.066
2157.5	0.148	5439.5	0.067
2158.	0.141	5440.	0.067
2158.5	0.143	5440.5	0.062
2159.	0.143	5441.	0.066
2159.5	0.145	5441.5	0.06
2160.	0.142	5442.	0.064
2160.5	0.14	5442.5	0.06
2161.	0.143	5443.	0.065
2161.5	0.145	5443.5	0.058

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2162.	0.142	5444.	0.062
2162.5	0.135	5444.5	0.063
2163.	0.142	5445.	0.066
2163.5	0.145	5445.5	0.064
2164.	0.142	5446.	0.059
2164.5	0.141	5446.5	0.055
2165.	0.14	5447.	0.057
2165.5	0.141	5447.5	0.058
2166.	0.137	5448.	0.066
2166.5	0.141	5448.5	0.066
2167.	0.14	5449.	0.058
2167.5	0.137	5449.5	0.059
2168.	0.143	5450.	0.063
2168.5	0.145	5450.5	0.062
2169.	0.141	5451.	0.066
2169.5	0.14	5451.5	0.066
2170.	0.142	5452.	0.06
2170.5	0.141	5452.5	0.055
2171.	0.138	5453.	0.063
2171.5	0.143	5453.5	0.064
2172.	0.141	5454.	0.062
2172.5	0.14	5454.5	0.063
2173.	0.139	5455.	0.059
2173.5	0.142	5455.5	0.059
2174.	0.141	5456.	0.064
2174.5	0.139	5456.5	0.056
2175.	0.145	5457.	0.057
2175.5	0.137	5457.5	0.065
2176.	0.141	5458.	0.059
2176.5	0.137	5458.5	0.06
2177.	0.142	5459.	0.062
2177.5	0.14	5459.5	0.062
2178.	0.141	5460.	0.065
2178.5	0.143	5460.5	0.062
2179.	0.137	5461.	0.062
2179.5	0.144	5461.5	0.063
2180.	0.142	5462.	0.061
2180.5	0.143	5462.5	0.061
2181.	0.14	5463.	0.063
2181.5	0.14	5463.5	0.062
2182.	0.137	5464.	0.061
2182.5	0.141	5464.5	0.062
2183.	0.137	5465.	0.061
2183.5	0.141	5465.5	0.058
2184.	0.144	5466.	0.061
2184.5	0.143	5466.5	0.066
2185.	0.136	5467.	0.069
2185.5	0.143	5467.5	0.065
2186.	0.139	5468.	0.063
2186.5	0.143	5468.5	0.058
2187.	0.139	5469.	0.065
2187.5	0.137	5469.5	0.058
2188.	0.139	5470.	0.057
2188.5	0.139	5470.5	0.062
2189.	0.135	5471.	0.06
2189.5	0.137	5471.5	0.064
2190.	0.14	5472.	0.063
2190.5	0.141	5472.5	0.061
2191.	0.14	5473.	0.058
2191.5	0.143	5473.5	0.059
2192.	0.143	5474.	0.059
2192.5	0.141	5474.5	0.057
2193.	0.144	5475.	0.055
2193.5	0.142	5475.5	0.063
2194.	0.143	5476.	0.056
2194.5	0.141	5476.5	0.064
2195.	0.136	5477.	0.065

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2195.5	0.138	5477.5	0.061
2196.	0.133	5478.	0.055
2196.5	0.142	5478.5	0.059
2197.	0.136	5479.	0.061
2197.5	0.135	5479.5	0.065
2198.	0.133	5480.	0.063
2198.5	0.14	5480.5	0.06
2199.	0.139	5481.	0.057
2199.5	0.145	5481.5	0.071
2200.	0.135	5482.	0.06
2200.5	0.136	5482.5	0.063
2201.	0.14	5483.	0.059
2201.5	0.142	5483.5	0.063
2202.	0.137	5484.	0.063
2202.5	0.141	5484.5	0.06
2203.	0.139	5485.	0.06
2203.5	0.137	5485.5	0.063
2204.	0.14	5486.	0.063
2204.5	0.139	5486.5	0.061
2205.	0.143	5487.	0.06
2205.5	0.142	5487.5	0.062
2206.	0.142	5488.	0.068
2206.5	0.138	5488.5	0.057
2207.	0.14	5489.	0.061
2207.5	0.14	5489.5	0.063
2208.	0.139	5490.	0.062
2208.5	0.14	5490.5	0.062
2209.	0.136	5491.	0.06
2209.5	0.132	5491.5	0.064
2210.	0.139	5492.	0.059
2210.5	0.141	5492.5	0.056
2211.	0.132	5493.	0.062
2211.5	0.136	5493.5	0.065
2212.	0.141	5494.	0.06
2212.5	0.139	5494.5	0.063
2213.	0.138	5495.	0.066
2213.5	0.139	5495.5	0.058
2214.	0.137	5496.	0.063
2214.5	0.134	5496.5	0.066
2215.	0.133	5497.	0.059
2215.5	0.135	5497.5	0.061
2216.	0.14	5498.	0.062
2216.5	0.13	5498.5	0.066
2217.	0.139	5499.	0.062
2217.5	0.136	5499.5	0.063
2218.	0.137	5500.	0.061
2218.5	0.141	5500.5	0.061
2219.	0.138	5501.	0.063
2219.5	0.137	5501.5	0.062
2220.	0.134	5502.	0.06
2220.5	0.143	5502.5	0.064
2221.	0.141	5503.	0.062
2221.5	0.139	5503.5	0.061
2222.	0.135	5504.	0.066
2222.5	0.139	5504.5	0.063
2223.	0.138	5505.	0.062
2223.5	0.141	5505.5	0.062
2224.	0.14	5506.	0.062
2224.5	0.138	5506.5	0.056
2225.	0.136	5507.	0.057
2225.5	0.133	5507.5	0.063
2226.	0.137	5508.	0.063
2226.5	0.141	5508.5	0.066
2227.	0.136	5509.	0.063
2227.5	0.137	5509.5	0.059
2228.	0.138	5510.	0.059
2228.5	0.133	5510.5	0.062

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2229.	0.135	5511.	0.063
2229.5	0.137	5511.5	0.064
2230.	0.135	5512.	0.065
2230.5	0.137	5512.5	0.062
2231.	0.134	5513.	0.06
2231.5	0.133	5513.5	0.061
2232.	0.136	5514.	0.065
2232.5	0.132	5514.5	0.066
2233.	0.135	5515.	0.067
2233.5	0.136	5515.5	0.061
2234.	0.135	5516.	0.067
2234.5	0.135	5516.5	0.061
2235.	0.138	5517.	0.06
2235.5	0.138	5517.5	0.065
2236.	0.133	5518.	0.058
2236.5	0.14	5518.5	0.062
2237.	0.13	5519.	0.065
2237.5	0.139	5519.5	0.063
2238.	0.136	5520.	0.061
2238.5	0.132	5520.5	0.065
2239.	0.141	5521.	0.069
2239.5	0.137	5521.5	0.062
2240.	0.132	5522.	0.059
2240.5	0.133	5522.5	0.062
2241.	0.133	5523.	0.062
2241.5	0.133	5523.5	0.061
2242.	0.132	5524.	0.06
2242.5	0.135	5524.5	0.066
2243.	0.135	5525.	0.064
2243.5	0.132	5525.5	0.06
2244.	0.136	5526.	0.063
2244.5	0.138	5526.5	0.06
2245.	0.136	5527.	0.066
2245.5	0.139	5527.5	0.059
2246.	0.134	5528.	0.063
2246.5	0.136	5528.5	0.061
2247.	0.138	5529.	0.064
2247.5	0.133	5529.5	0.064
2248.	0.129	5530.	0.059
2248.5	0.133	5530.5	0.063
2249.	0.133	5531.	0.065
2249.5	0.136	5531.5	0.058
2250.	0.132	5532.	0.061
2250.5	0.13	5532.5	0.063
2251.	0.138	5533.	0.057
2251.5	0.135	5533.5	0.064
2252.	0.137	5534.	0.061
2252.5	0.135	5534.5	0.062
2253.	0.135	5535.	0.056
2253.5	0.134	5535.5	0.055
2254.	0.137	5536.	0.066
2254.5	0.136	5536.5	0.065
2255.	0.137	5537.	0.061
2255.5	0.137	5537.5	0.054
2256.	0.138	5538.	0.063
2256.5	0.135	5538.5	0.062
2257.	0.137	5539.	0.057
2257.5	0.133	5539.5	0.06
2258.	0.138	5540.	0.064
2258.5	0.133	5540.5	0.063
2259.	0.135	5541.	0.067
2259.5	0.133	5541.5	0.058
2260.	0.135	5542.	0.065
2260.5	0.134	5542.5	0.059
2261.	0.133	5543.	0.057
2261.5	0.136	5543.5	0.063
2262.	0.132	5544.	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2262.5	0.134	5544.5	0.058
2263.	0.131	5545.	0.065
2263.5	0.137	5545.5	0.054
2264.	0.134	5546.	0.063
2264.5	0.135	5546.5	0.064
2265.	0.139	5547.	0.064
2265.5	0.137	5547.5	0.06
2266.	0.133	5548.	0.062
2266.5	0.136	5548.5	0.058
2267.	0.133	5549.	0.058
2267.5	0.131	5549.5	0.065
2268.	0.134	5550.	0.06
2268.5	0.13	5550.5	0.059
2269.	0.135	5551.	0.06
2269.5	0.14	5551.5	0.06
2270.	0.133	5552.	0.066
2270.5	0.14	5552.5	0.061
2271.	0.134	5553.	0.058
2271.5	0.141	5553.5	0.057
2272.	0.137	5554.	0.058
2272.5	0.138	5554.5	0.059
2273.	0.134	5555.	0.059
2273.5	0.135	5555.5	0.058
2274.	0.134	5556.	0.063
2274.5	0.14	5556.5	0.061
2275.	0.138	5557.	0.055
2275.5	0.134	5557.5	0.067
2276.	0.134	5558.	0.061
2276.5	0.131	5558.5	0.058
2277.	0.134	5559.	0.065
2277.5	0.132	5559.5	0.064
2278.	0.133	5560.	0.061
2278.5	0.135	5560.5	0.062
2279.	0.135	5561.	0.056
2279.5	0.13	5561.5	0.059
2280.	0.136	5562.	0.063
2280.5	0.139	5562.5	0.061
2281.	0.13	5563.	0.059
2281.5	0.135	5563.5	0.063
2282.	0.132	5564.	0.059
2282.5	0.138	5564.5	0.06
2283.	0.134	5565.	0.063
2283.5	0.136	5565.5	0.064
2284.	0.13	5566.	0.068
2284.5	0.138	5566.5	0.064
2285.	0.131	5567.	0.061
2285.5	0.131	5567.5	0.063
2286.	0.137	5568.	0.06
2286.5	0.14	5568.5	0.063
2287.	0.131	5569.	0.058
2287.5	0.137	5569.5	0.068
2288.	0.132	5570.	0.057
2288.5	0.133	5570.5	0.062
2289.	0.135	5571.	0.063
2289.5	0.134	5571.5	0.06
2290.	0.139	5572.	0.061
2290.5	0.136	5572.5	0.059
2291.	0.134	5573.	0.063
2291.5	0.132	5573.5	0.065
2292.	0.132	5574.	0.062
2292.5	0.132	5574.5	0.058
2293.	0.131	5575.	0.059
2293.5	0.139	5575.5	0.062
2294.	0.126	5576.	0.06
2294.5	0.138	5576.5	0.06
2295.	0.127	5577.	0.058
2295.5	0.135	5577.5	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2296.	0.135	5578.	0.064
2296.5	0.132	5578.5	0.061
2297.	0.132	5579.	0.062
2297.5	0.136	5579.5	0.064
2298.	0.133	5580.	0.062
2298.5	0.135	5580.5	0.057
2299.	0.134	5581.	0.059
2299.5	0.128	5581.5	0.057
2300.	0.135	5582.	0.06
2300.5	0.133	5582.5	0.06
2301.	0.128	5583.	0.062
2301.5	0.132	5583.5	0.061
2302.	0.134	5584.	0.058
2302.5	0.133	5584.5	0.062
2303.	0.13	5585.	0.063
2303.5	0.132	5585.5	0.059
2304.	0.132	5586.	0.062
2304.5	0.137	5586.5	0.063
2305.	0.133	5587.	0.064
2305.5	0.133	5587.5	0.057
2306.	0.128	5588.	0.06
2306.5	0.136	5588.5	0.059
2307.	0.125	5589.	0.061
2307.5	0.136	5589.5	0.059
2308.	0.134	5590.	0.065
2308.5	0.131	5590.5	0.064
2309.	0.13	5591.	0.062
2309.5	0.133	5591.5	0.056
2310.	0.129	5592.	0.061
2310.5	0.133	5592.5	0.062
2311.	0.132	5593.	0.062
2311.5	0.132	5593.5	0.063
2312.	0.132	5594.	0.06
2312.5	0.133	5594.5	0.057
2313.	0.132	5595.	0.059
2313.5	0.131	5595.5	0.062
2314.	0.134	5596.	0.062
2314.5	0.129	5596.5	0.055
2315.	0.129	5597.	0.061
2315.5	0.134	5597.5	0.066
2316.	0.132	5598.	0.062
2316.5	0.129	5598.5	0.063
2317.	0.129	5599.	0.06
2317.5	0.132	5599.5	0.06
2318.	0.136	5600.	0.06
2318.5	0.131	5600.5	0.062
2319.	0.128	5601.	0.061
2319.5	0.13	5601.5	0.064
2320.	0.131	5602.	0.058
2320.5	0.135	5602.5	0.058
2321.	0.134	5603.	0.064
2321.5	0.135	5603.5	0.06
2322.	0.131	5604.	0.061
2322.5	0.135	5604.5	0.054
2323.	0.13	5605.	0.066
2323.5	0.135	5605.5	0.056
2324.	0.131	5606.	0.059
2324.5	0.136	5606.5	0.063
2325.	0.132	5607.	0.059
2325.5	0.133	5607.5	0.061
2326.	0.132	5608.	0.062
2326.5	0.131	5608.5	0.058
2327.	0.128	5609.	0.058
2327.5	0.128	5609.5	0.056
2328.	0.13	5610.	0.06
2328.5	0.127	5610.5	0.062
2329.	0.13	5611.	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2329.5	0.133	5611.5	0.06
2330.	0.127	5612.	0.062
2330.5	0.13	5612.5	0.061
2331.	0.137	5613.	0.063
2331.5	0.138	5613.5	0.063
2332.	0.127	5614.	0.066
2332.5	0.129	5614.5	0.062
2333.	0.134	5615.	0.067
2333.5	0.135	5615.5	0.061
2334.	0.126	5616.	0.064
2334.5	0.133	5616.5	0.058
2335.	0.13	5617.	0.065
2335.5	0.137	5617.5	0.059
2336.	0.126	5618.	0.058
2336.5	0.133	5618.5	0.064
2337.	0.135	5619.	0.065
2337.5	0.136	5619.5	0.062
2338.	0.132	5620.	0.058
2338.5	0.134	5620.5	0.065
2339.	0.131	5621.	0.06
2339.5	0.136	5621.5	0.06
2340.	0.128	5622.	0.065
2340.5	0.135	5622.5	0.061
2341.	0.128	5623.	0.057
2341.5	0.132	5623.5	0.059
2342.	0.132	5624.	0.063
2342.5	0.134	5624.5	0.062
2343.	0.135	5625.	0.055
2343.5	0.133	5625.5	0.071
2344.	0.133	5626.	0.068
2344.5	0.129	5626.5	0.064
2345.	0.127	5627.	0.065
2345.5	0.13	5627.5	0.065
2346.	0.131	5628.	0.065
2346.5	0.134	5628.5	0.062
2347.	0.136	5629.	0.061
2347.5	0.135	5629.5	0.057
2348.	0.13	5630.	0.057
2348.5	0.134	5630.5	0.061
2349.	0.129	5631.	0.059
2349.5	0.127	5631.5	0.059
2350.	0.13	5632.	0.062
2350.5	0.132	5632.5	0.06
2351.	0.128	5633.	0.06
2351.5	0.131	5633.5	0.067
2352.	0.129	5634.	0.065
2352.5	0.129	5634.5	0.062
2353.	0.131	5635.	0.06
2353.5	0.13	5635.5	0.06
2354.	0.131	5636.	0.065
2354.5	0.129	5636.5	0.062
2355.	0.133	5637.	0.062
2355.5	0.129	5637.5	0.056
2356.	0.128	5638.	0.052
2356.5	0.134	5638.5	0.06
2357.	0.126	5639.	0.062
2357.5	0.129	5639.5	0.062
2358.	0.132	5640.	0.063
2358.5	0.135	5640.5	0.06
2359.	0.135	5641.	0.061
2359.5	0.131	5641.5	0.063
2360.	0.131	5642.	0.067
2360.5	0.127	5642.5	0.059
2361.	0.13	5643.	0.063
2361.5	0.127	5643.5	0.062
2362.	0.127	5644.	0.062
2362.5	0.131	5644.5	0.064

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2363.	0.129	5645.	0.063
2363.5	0.134	5645.5	0.065
2364.	0.126	5646.	0.06
2364.5	0.132	5646.5	0.06
2365.	0.126	5647.	0.064
2365.5	0.134	5647.5	0.064
2366.	0.128	5648.	0.057
2366.5	0.126	5648.5	0.061
2367.	0.132	5649.	0.061
2367.5	0.133	5649.5	0.059
2368.	0.128	5650.	0.058
2368.5	0.13	5650.5	0.058
2369.	0.125	5651.	0.061
2369.5	0.132	5651.5	0.059
2370.	0.124	5652.	0.06
2370.5	0.129	5652.5	0.063
2371.	0.129	5653.	0.056
2371.5	0.129	5653.5	0.064
2372.	0.135	5654.	0.067
2372.5	0.13	5654.5	0.065
2373.	0.133	5655.	0.067
2373.5	0.13	5655.5	0.059
2374.	0.126	5656.	0.063
2374.5	0.131	5656.5	0.061
2375.	0.131	5657.	0.069
2375.5	0.127	5657.5	0.062
2376.	0.132	5658.	0.052
2376.5	0.133	5658.5	0.062
2377.	0.135	5659.	0.062
2377.5	0.126	5659.5	0.063
2378.	0.125	5660.	0.062
2378.5	0.126	5660.5	0.062
2379.	0.13	5661.	0.063
2379.5	0.129	5661.5	0.063
2380.	0.126	5662.	0.061
2380.5	0.128	5662.5	0.06
2381.	0.131	5663.	0.06
2381.5	0.125	5663.5	0.061
2382.	0.128	5664.	0.062
2382.5	0.129	5664.5	0.06
2383.	0.128	5665.	0.06
2383.5	0.122	5665.5	0.061
2384.	0.123	5666.	0.06
2384.5	0.13	5666.5	0.063
2385.	0.124	5667.	0.061
2385.5	0.126	5667.5	0.065
2386.	0.13	5668.	0.063
2386.5	0.129	5668.5	0.06
2387.	0.128	5669.	0.066
2387.5	0.134	5669.5	0.06
2388.	0.128	5670.	0.061
2388.5	0.129	5670.5	0.059
2389.	0.123	5671.	0.065
2389.5	0.131	5671.5	0.066
2390.	0.126	5672.	0.057
2390.5	0.126	5672.5	0.06
2391.	0.129	5673.	0.062
2391.5	0.13	5673.5	0.066
2392.	0.124	5674.	0.062
2392.5	0.13	5674.5	0.056
2393.	0.127	5675.	0.067
2393.5	0.126	5675.5	0.059
2394.	0.122	5676.	0.061
2394.5	0.127	5676.5	0.064
2395.	0.129	5677.	0.063
2395.5	0.126	5677.5	0.057
2396.	0.127	5678.	0.064

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2396.5	0.129	5678.5	0.056
2397.	0.123	5679.	0.059
2397.5	0.126	5679.5	0.063
2398.	0.129	5680.	0.068
2398.5	0.128	5680.5	0.062
2399.	0.128	5681.	0.062
2399.5	0.131	5681.5	0.059
2400.	0.124	5682.	0.062
2400.5	0.135	5682.5	0.055
2401.	0.129	5683.	0.062
2401.5	0.131	5683.5	0.063
2402.	0.132	5684.	0.061
2402.5	0.131	5684.5	0.063
2403.	0.132	5685.	0.061
2403.5	0.13	5685.5	0.054
2404.	0.125	5686.	0.062
2404.5	0.135	5686.5	0.063
2405.	0.128	5687.	0.064
2405.5	0.13	5687.5	0.065
2406.	0.128	5688.	0.061
2406.5	0.133	5688.5	0.06
2407.	0.132	5689.	0.063
2407.5	0.13	5689.5	0.058
2408.	0.129	5690.	0.06
2408.5	0.124	5690.5	0.06
2409.	0.134	5691.	0.063
2409.5	0.131	5691.5	0.063
2410.	0.131	5692.	0.061
2410.5	0.129	5692.5	0.064
2411.	0.129	5693.	0.062
2411.5	0.126	5693.5	0.059
2412.	0.128	5694.	0.065
2412.5	0.126	5694.5	0.06
2413.	0.128	5695.	0.065
2413.5	0.126	5695.5	0.059
2414.	0.131	5696.	0.062
2414.5	0.131	5696.5	0.06
2415.	0.13	5697.	0.064
2415.5	0.126	5697.5	0.063
2416.	0.124	5698.	0.059
2416.5	0.124	5698.5	0.056
2417.	0.13	5699.	0.065
2417.5	0.133	5699.5	0.064
2418.	0.128	5700.	0.064
2418.5	0.13	5700.5	0.059
2419.	0.124	5701.	0.062
2419.5	0.128	5701.5	0.06
2420.	0.131	5702.	0.061
2420.5	0.129	5702.5	0.057
2421.	0.133	5703.	0.061
2421.5	0.13	5703.5	0.064
2422.	0.13	5704.	0.066
2422.5	0.136	5704.5	0.059
2423.	0.129	5705.	0.065
2423.5	0.13	5705.5	0.064
2424.	0.12	5706.	0.061
2424.5	0.129	5706.5	0.062
2425.	0.129	5707.	0.063
2425.5	0.13	5707.5	0.061
2426.	0.124	5708.	0.059
2426.5	0.129	5708.5	0.058
2427.	0.126	5709.	0.053
2427.5	0.126	5709.5	0.063
2428.	0.127	5710.	0.063
2428.5	0.134	5710.5	0.063
2429.	0.125	5711.	0.065
2429.5	0.132	5711.5	0.064

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2430.	0.13	5712.	0.056
2430.5	0.129	5712.5	0.059
2431.	0.122	5713.	0.055
2431.5	0.128	5713.5	0.057
2432.	0.121	5714.	0.058
2432.5	0.131	5714.5	0.058
2433.	0.127	5715.	0.063
2433.5	0.131	5715.5	0.058
2434.	0.129	5716.	0.06
2434.5	0.127	5716.5	0.052
2435.	0.126	5717.	0.061
2435.5	0.123	5717.5	0.061
2436.	0.128	5718.	0.061
2436.5	0.123	5718.5	0.056
2437.	0.132	5719.	0.06
2437.5	0.132	5719.5	0.063
2438.	0.129	5720.	0.067
2438.5	0.123	5720.5	0.064
2439.	0.125	5721.	0.058
2439.5	0.127	5721.5	0.057
2440.	0.13	5722.	0.058
2440.5	0.127	5722.5	0.06
2441.	0.12	5723.	0.06
2441.5	0.12	5723.5	0.062
2442.	0.131	5724.	0.057
2442.5	0.127	5724.5	0.058
2443.	0.128	5725.	0.061
2443.5	0.124	5725.5	0.06
2444.	0.126	5726.	0.054
2444.5	0.123	5726.5	0.062
2445.	0.126	5727.	0.059
2445.5	0.124	5727.5	0.061
2446.	0.124	5728.	0.061
2446.5	0.131	5728.5	0.053
2447.	0.122	5729.	0.059
2447.5	0.12	5729.5	0.061
2448.	0.127	5730.	0.065
2448.5	0.13	5730.5	0.06
2449.	0.126	5731.	0.057
2449.5	0.129	5731.5	0.064
2450.	0.13	5732.	0.058
2450.5	0.127	5732.5	0.064
2451.	0.131	5733.	0.064
2451.5	0.131	5733.5	0.056
2452.	0.122	5734.	0.062
2452.5	0.129	5734.5	0.055
2453.	0.131	5735.	0.062
2453.5	0.124	5735.5	0.065
2454.	0.127	5736.	0.061
2454.5	0.123	5736.5	0.063
2455.	0.126	5737.	0.062
2455.5	0.126	5737.5	0.056
2456.	0.118	5738.	0.052
2456.5	0.122	5738.5	0.061
2457.	0.126	5739.	0.061
2457.5	0.126	5739.5	0.059
2458.	0.129	5740.	0.058
2458.5	0.125	5740.5	0.064
2459.	0.127	5741.	0.061
2459.5	0.127	5741.5	0.059
2460.	0.124	5742.	0.062
2460.5	0.128	5742.5	0.057
2461.	0.129	5743.	0.063
2461.5	0.124	5743.5	0.06
2462.	0.122	5744.	0.063
2462.5	0.125	5744.5	0.055
2463.	0.128	5745.	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2463.5	0.126	5745.5	0.059
2464.	0.121	5746.	0.056
2464.5	0.123	5746.5	0.057
2465.	0.125	5747.	0.065
2465.5	0.125	5747.5	0.058
2466.	0.12	5748.	0.058
2466.5	0.124	5748.5	0.06
2467.	0.126	5749.	0.061
2467.5	0.128	5749.5	0.057
2468.	0.13	5750.	0.064
2468.5	0.126	5750.5	0.057
2469.	0.127	5751.	0.059
2469.5	0.126	5751.5	0.057
2470.	0.125	5752.	0.066
2470.5	0.125	5752.5	0.058
2471.	0.126	5753.	0.059
2471.5	0.126	5753.5	0.055
2472.	0.127	5754.	0.063
2472.5	0.124	5754.5	0.055
2473.	0.123	5755.	0.063
2473.5	0.122	5755.5	0.056
2474.	0.122	5756.	0.062
2474.5	0.129	5756.5	0.058
2475.	0.122	5757.	0.062
2475.5	0.129	5757.5	0.061
2476.	0.124	5758.	0.058
2476.5	0.122	5758.5	0.063
2477.	0.119	5759.	0.061
2477.5	0.123	5759.5	0.058
2478.	0.122	5760.	0.058
2478.5	0.127	5760.5	0.064
2479.	0.13	5761.	0.065
2479.5	0.128	5761.5	0.059
2480.	0.123	5762.	0.062
2480.5	0.122	5762.5	0.061
2481.	0.126	5763.	0.054
2481.5	0.13	5763.5	0.061
2482.	0.121	5764.	0.059
2482.5	0.127	5764.5	0.061
2483.	0.125	5765.	0.058
2483.5	0.128	5765.5	0.061
2484.	0.126	5766.	0.062
2484.5	0.127	5766.5	0.059
2485.	0.127	5767.	0.059
2485.5	0.124	5767.5	0.058
2486.	0.125	5768.	0.06
2486.5	0.124	5768.5	0.058
2487.	0.123	5769.	0.061
2487.5	0.129	5769.5	0.064
2488.	0.123	5770.	0.061
2488.5	0.127	5770.5	0.058
2489.	0.126	5771.	0.058
2489.5	0.122	5771.5	0.056
2490.	0.125	5772.	0.059
2490.5	0.126	5772.5	0.061
2491.	0.129	5773.	0.06
2491.5	0.125	5773.5	0.063
2492.	0.121	5774.	0.066
2492.5	0.122	5774.5	0.061
2493.	0.129	5775.	0.062
2493.5	0.125	5775.5	0.061
2494.	0.126	5776.	0.06
2494.5	0.128	5776.5	0.058
2495.	0.125	5777.	0.065
2495.5	0.12	5777.5	0.06
2496.	0.125	5778.	0.058
2496.5	0.13	5778.5	0.06

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2497.	0.128	5779.	0.057
2497.5	0.125	5779.5	0.064
2498.	0.123	5780.	0.06
2498.5	0.122	5780.5	0.058
2499.	0.13	5781.	0.061
2499.5	0.12	5781.5	0.055
2500.	0.121	5782.	0.058
2500.5	0.125	5782.5	0.056
2501.	0.122	5783.	0.06
2501.5	0.127	5783.5	0.055
2502.	0.126	5784.	0.062
2502.5	0.126	5784.5	0.064
2503.	0.124	5785.	0.062
2503.5	0.123	5785.5	0.06
2504.	0.124	5786.	0.064
2504.5	0.122	5786.5	0.057
2505.	0.127	5787.	0.059
2505.5	0.122	5787.5	0.058
2506.	0.123	5788.	0.06
2506.5	0.124	5788.5	0.06
2507.	0.127	5789.	0.06
2507.5	0.127	5789.5	0.052
2508.	0.127	5790.	0.061
2508.5	0.122	5790.5	0.057
2509.	0.124	5791.	0.058
2509.5	0.125	5791.5	0.061
2510.	0.127	5792.	0.055
2510.5	0.121	5792.5	0.062
2511.	0.118	5793.	0.061
2511.5	0.121	5793.5	0.057
2512.	0.119	5794.	0.057
2512.5	0.125	5794.5	0.056
2513.	0.126	5795.	0.064
2513.5	0.121	5795.5	0.059
2514.	0.118	5796.	0.06
2514.5	0.12	5796.5	0.052
2515.	0.124	5797.	0.063
2515.5	0.125	5797.5	0.062
2516.	0.125	5798.	0.057
2516.5	0.123	5798.5	0.057
2517.	0.123	5799.	0.056
2517.5	0.124	5799.5	0.065
2518.	0.125	5800.	0.062
2518.5	0.122	5800.5	0.062
2519.	0.123	5801.	0.057
2519.5	0.115	5801.5	0.06
2520.	0.125	5802.	0.059
2520.5	0.126	5802.5	0.056
2521.	0.121	5803.	0.063
2521.5	0.114	5803.5	0.06
2522.	0.121	5804.	0.063
2522.5	0.126	5804.5	0.06
2523.	0.12	5805.	0.062
2523.5	0.127	5805.5	0.057
2524.	0.113	5806.	0.064
2524.5	0.118	5806.5	0.058
2525.	0.124	5807.	0.056
2525.5	0.123	5807.5	0.058
2526.	0.122	5808.	0.057
2526.5	0.12	5808.5	0.056
2527.	0.122	5809.	0.056
2527.5	0.122	5809.5	0.056
2528.	0.122	5810.	0.058
2528.5	0.124	5810.5	0.062
2529.	0.122	5811.	0.066
2529.5	0.121	5811.5	0.061
2530.	0.121	5812.	0.063

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2530.5	0.12	5812.5	0.063
2531.	0.126	5813.	0.061
2531.5	0.127	5813.5	0.056
2532.	0.116	5814.	0.059
2532.5	0.117	5814.5	0.059
2533.	0.122	5815.	0.062
2533.5	0.115	5815.5	0.062
2534.	0.127	5816.	0.061
2534.5	0.123	5816.5	0.058
2535.	0.117	5817.	0.066
2535.5	0.126	5817.5	0.062
2536.	0.121	5818.	0.061
2536.5	0.125	5818.5	0.062
2537.	0.126	5819.	0.063
2537.5	0.125	5819.5	0.053
2538.	0.12	5820.	0.056
2538.5	0.125	5820.5	0.061
2539.	0.127	5821.	0.059
2539.5	0.118	5821.5	0.061
2540.	0.119	5822.	0.063
2540.5	0.126	5822.5	0.058
2541.	0.125	5823.	0.061
2541.5	0.123	5823.5	0.056
2542.	0.125	5824.	0.057
2542.5	0.118	5824.5	0.056
2543.	0.124	5825.	0.062
2543.5	0.121	5825.5	0.059
2544.	0.123	5826.	0.054
2544.5	0.123	5826.5	0.06
2545.	0.123	5827.	0.066
2545.5	0.123	5827.5	0.056
2546.	0.121	5828.	0.056
2546.5	0.122	5828.5	0.059
2547.	0.116	5829.	0.057
2547.5	0.122	5829.5	0.065
2548.	0.128	5830.	0.063
2548.5	0.121	5830.5	0.06
2549.	0.118	5831.	0.065
2549.5	0.122	5831.5	0.06
2550.	0.12	5832.	0.059
2550.5	0.121	5832.5	0.053
2551.	0.12	5833.	0.056
2551.5	0.122	5833.5	0.055
2552.	0.122	5834.	0.059
2552.5	0.121	5834.5	0.056
2553.	0.124	5835.	0.057
2553.5	0.121	5835.5	0.063
2554.	0.122	5836.	0.06
2554.5	0.12	5836.5	0.053
2555.	0.122	5837.	0.057
2555.5	0.115	5837.5	0.061
2556.	0.114	5838.	0.055
2556.5	0.116	5838.5	0.055
2557.	0.116	5839.	0.063
2557.5	0.118	5839.5	0.058
2558.	0.124	5840.	0.061
2558.5	0.12	5840.5	0.058
2559.	0.121	5841.	0.056
2559.5	0.119	5841.5	0.058
2560.	0.117	5842.	0.063
2560.5	0.117	5842.5	0.057
2561.	0.121	5843.	0.057
2561.5	0.118	5843.5	0.055
2562.	0.115	5844.	0.065
2562.5	0.125	5844.5	0.061
2563.	0.12	5845.	0.057
2563.5	0.118	5845.5	0.062

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2564.	0.124	5846.	0.065
2564.5	0.124	5846.5	0.057
2565.	0.119	5847.	0.061
2565.5	0.118	5847.5	0.055
2566.	0.127	5848.	0.059
2566.5	0.123	5848.5	0.055
2567.	0.125	5849.	0.061
2567.5	0.123	5849.5	0.057
2568.	0.122	5850.	0.06
2568.5	0.12	5850.5	0.063
2569.	0.12	5851.	0.057
2569.5	0.127	5851.5	0.055
2570.	0.118	5852.	0.058
2570.5	0.122	5852.5	0.058
2571.	0.125	5853.	0.06
2571.5	0.119	5853.5	0.055
2572.	0.12	5854.	0.061
2572.5	0.119	5854.5	0.057
2573.	0.122	5855.	0.058
2573.5	0.121	5855.5	0.055
2574.	0.119	5856.	0.059
2574.5	0.125	5856.5	0.058
2575.	0.116	5857.	0.057
2575.5	0.12	5857.5	0.059
2576.	0.117	5858.	0.054
2576.5	0.121	5858.5	0.064
2577.	0.121	5859.	0.053
2577.5	0.118	5859.5	0.058
2578.	0.119	5860.	0.058
2578.5	0.118	5860.5	0.057
2579.	0.119	5861.	0.06
2579.5	0.119	5861.5	0.053
2580.	0.117	5862.	0.06
2580.5	0.118	5862.5	0.055
2581.	0.115	5863.	0.059
2581.5	0.122	5863.5	0.062
2582.	0.114	5864.	0.058
2582.5	0.118	5864.5	0.059
2583.	0.117	5865.	0.057
2583.5	0.119	5865.5	0.057
2584.	0.116	5866.	0.057
2584.5	0.114	5866.5	0.057
2585.	0.117	5867.	0.056
2585.5	0.121	5867.5	0.061
2586.	0.117	5868.	0.059
2586.5	0.12	5868.5	0.057
2587.	0.117	5869.	0.058
2587.5	0.124	5869.5	0.057
2588.	0.118	5870.	0.054
2588.5	0.118	5870.5	0.061
2589.	0.126	5871.	0.058
2589.5	0.121	5871.5	0.058
2590.	0.123	5872.	0.058
2590.5	0.116	5872.5	0.052
2591.	0.119	5873.	0.057
2591.5	0.121	5873.5	0.06
2592.	0.116	5874.	0.054
2592.5	0.117	5874.5	0.057
2593.	0.119	5875.	0.061
2593.5	0.129	5875.5	0.06
2594.	0.118	5876.	0.066
2594.5	0.12	5876.5	0.058
2595.	0.121	5877.	0.061
2595.5	0.115	5877.5	0.06
2596.	0.116	5878.	0.06
2596.5	0.118	5878.5	0.063
2597.	0.114	5879.	0.06

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2597.5	0.121	5879.5	0.059
2598.	0.116	5880.	0.062
2598.5	0.117	5880.5	0.058
2599.	0.119	5881.	0.061
2599.5	0.115	5881.5	0.064
2600.	0.115	5882.	0.059
2600.5	0.12	5882.5	0.058
2601.	0.119	5883.	0.06
2601.5	0.123	5883.5	0.059
2602.	0.122	5884.	0.058
2602.5	0.122	5884.5	0.06
2603.	0.118	5885.	0.057
2603.5	0.12	5885.5	0.059
2604.	0.122	5886.	0.058
2604.5	0.117	5886.5	0.058
2605.	0.126	5887.	0.055
2605.5	0.116	5887.5	0.058
2606.	0.118	5888.	0.061
2606.5	0.12	5888.5	0.064
2607.	0.12	5889.	0.066
2607.5	0.125	5889.5	0.063
2608.	0.121	5890.	0.065
2608.5	0.116	5890.5	0.053
2609.	0.116	5891.	0.058
2609.5	0.117	5891.5	0.062
2610.	0.119	5892.	0.06
2610.5	0.119	5892.5	0.059
2611.	0.122	5893.	0.06
2611.5	0.12	5893.5	0.056
2612.	0.12	5894.	0.055
2612.5	0.121	5894.5	0.059
2613.	0.113	5895.	0.061
2613.5	0.119	5895.5	0.058
2614.	0.119	5896.	0.065
2614.5	0.116	5896.5	0.059
2615.	0.12	5897.	0.06
2615.5	0.123	5897.5	0.062
2616.	0.123	5898.	0.06
2616.5	0.123	5898.5	0.056
2617.	0.116	5899.	0.055
2617.5	0.117	5899.5	0.056
2618.	0.12	5900.	0.059
2618.5	0.123	5900.5	0.056
2619.	0.109	5901.	0.06
2619.5	0.119	5901.5	0.061
2620.	0.122	5902.	0.06
2620.5	0.119	5902.5	0.057
2621.	0.124	5903.	0.06
2621.5	0.118	5903.5	0.063
2622.	0.118	5904.	0.061
2622.5	0.122	5904.5	0.054
2623.	0.12	5905.	0.063
2623.5	0.112	5905.5	0.059
2624.	0.123	5906.	0.06
2624.5	0.123	5906.5	0.058
2625.	0.116	5907.	0.06
2625.5	0.12	5907.5	0.056
2626.	0.117	5908.	0.065
2626.5	0.112	5908.5	0.059
2627.	0.121	5909.	0.061
2627.5	0.119	5909.5	0.06
2628.	0.119	5910.	0.061
2628.5	0.121	5910.5	0.063
2629.	0.117	5911.	0.062
2629.5	0.118	5911.5	0.057
2630.	0.122	5912.	0.06
2630.5	0.117	5912.5	0.062

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2631.	0.117	5913.	0.06
2631.5	0.12	5913.5	0.06
2632.	0.114	5914.	0.059
2632.5	0.118	5914.5	0.059
2633.	0.118	5915.	0.055
2633.5	0.12	5915.5	0.064
2634.	0.121	5916.	0.057
2634.5	0.119	5916.5	0.058
2635.	0.119	5917.	0.058
2635.5	0.121	5917.5	0.057
2636.	0.113	5918.	0.058
2636.5	0.117	5918.5	0.059
2637.	0.116	5919.	0.06
2637.5	0.121	5919.5	0.06
2638.	0.114	5920.	0.06
2638.5	0.117	5920.5	0.058
2639.	0.117	5921.	0.062
2639.5	0.116	5921.5	0.057
2640.	0.117	5922.	0.061
2640.5	0.109	5922.5	0.057
2641.	0.117	5923.	0.06
2641.5	0.117	5923.5	0.056
2642.	0.122	5924.	0.063
2642.5	0.119	5924.5	0.061
2643.	0.116	5925.	0.063
2643.5	0.113	5925.5	0.056
2644.	0.119	5926.	0.065
2644.5	0.118	5926.5	0.059
2645.	0.117	5927.	0.058
2645.5	0.116	5927.5	0.06
2646.	0.122	5928.	0.064
2646.5	0.125	5928.5	0.06
2647.	0.12	5929.	0.06
2647.5	0.118	5929.5	0.057
2648.	0.122	5930.	0.061
2648.5	0.112	5930.5	0.06
2649.	0.126	5931.	0.062
2649.5	0.118	5931.5	0.061
2650.	0.117	5932.	0.061
2650.5	0.12	5932.5	0.06
2651.	0.115	5933.	0.065
2651.5	0.12	5933.5	0.062
2652.	0.117	5934.	0.056
2652.5	0.114	5934.5	0.058
2653.	0.119	5935.	0.06
2653.5	0.116	5935.5	0.062
2654.	0.116	5936.	0.065
2654.5	0.109	5936.5	0.059
2655.	0.118	5937.	0.056
2655.5	0.12	5937.5	0.059
2656.	0.116	5938.	0.058
2656.5	0.117	5938.5	0.059
2657.	0.121	5939.	0.063
2657.5	0.12	5939.5	0.069
2658.	0.114	5940.	0.054
2658.5	0.121	5940.5	0.059
2659.	0.12	5941.	0.059
2659.5	0.119	5941.5	0.059
2660.	0.114	5942.	0.063
2660.5	0.118	5942.5	0.063
2661.	0.12	5943.	0.056
2661.5	0.118	5943.5	0.066
2662.	0.121	5944.	0.062
2662.5	0.117	5944.5	0.067
2663.	0.121	5945.	0.053
2663.5	0.119	5945.5	0.066
2664.	0.111	5946.	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2664.5	0.115	5946.5	0.057
2665.	0.115	5947.	0.061
2665.5	0.119	5947.5	0.064
2666.	0.117	5948.	0.059
2666.5	0.119	5948.5	0.056
2667.	0.118	5949.	0.059
2667.5	0.117	5949.5	0.058
2668.	0.112	5950.	0.063
2668.5	0.116	5950.5	0.057
2669.	0.117	5951.	0.063
2669.5	0.118	5951.5	0.056
2670.	0.12	5952.	0.06
2670.5	0.116	5952.5	0.058
2671.	0.121	5953.	0.059
2671.5	0.117	5953.5	0.06
2672.	0.117	5954.	0.059
2672.5	0.117	5954.5	0.058
2673.	0.116	5955.	0.058
2673.5	0.121	5955.5	0.055
2674.	0.116	5956.	0.06
2674.5	0.117	5956.5	0.057
2675.	0.112	5957.	0.055
2675.5	0.117	5957.5	0.062
2676.	0.118	5958.	0.059
2676.5	0.112	5958.5	0.056
2677.	0.109	5959.	0.06
2677.5	0.119	5959.5	0.06
2678.	0.122	5960.	0.062
2678.5	0.121	5960.5	0.063
2679.	0.122	5961.	0.066
2679.5	0.118	5961.5	0.056
2680.	0.111	5962.	0.053
2680.5	0.116	5962.5	0.058
2681.	0.118	5963.	0.06
2681.5	0.115	5963.5	0.053
2682.	0.114	5964.	0.062
2682.5	0.117	5964.5	0.058
2683.	0.115	5965.	0.059
2683.5	0.116	5965.5	0.058
2684.	0.115	5966.	0.059
2684.5	0.114	5966.5	0.058
2685.	0.116	5967.	0.054
2685.5	0.112	5967.5	0.06
2686.	0.115	5968.	0.056
2686.5	0.119	5968.5	0.06
2687.	0.116	5969.	0.057
2687.5	0.115	5969.5	0.056
2688.	0.121	5970.	0.057
2688.5	0.115	5970.5	0.062
2689.	0.116	5971.	0.059
2689.5	0.121	5971.5	0.06
2690.	0.117	5972.	0.056
2690.5	0.116	5972.5	0.06
2691.	0.117	5973.	0.066
2691.5	0.121	5973.5	0.057
2692.	0.118	5974.	0.062
2692.5	0.12	5974.5	0.058
2693.	0.122	5975.	0.054
2693.5	0.118	5975.5	0.057
2694.	0.115	5976.	0.059
2694.5	0.116	5976.5	0.056
2695.	0.117	5977.	0.06
2695.5	0.113	5977.5	0.05
2696.	0.121	5978.	0.055
2696.5	0.116	5978.5	0.059
2697.	0.12	5979.	0.06
2697.5	0.114	5979.5	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2698.	0.114	5980.	0.056
2698.5	0.109	5980.5	0.06
2699.	0.115	5981.	0.06
2699.5	0.116	5981.5	0.06
2700.	0.113	5982.	0.058
2700.5	0.117	5982.5	0.053
2701.	0.112	5983.	0.055
2701.5	0.117	5983.5	0.059
2702.	0.116	5984.	0.059
2702.5	0.109	5984.5	0.055
2703.	0.115	5985.	0.056
2703.5	0.115	5985.5	0.052
2704.	0.122	5986.	0.06
2704.5	0.116	5986.5	0.057
2705.	0.12	5987.	0.057
2705.5	0.113	5987.5	0.052
2706.	0.116	5988.	0.059
2706.5	0.12	5988.5	0.057
2707.	0.119	5989.	0.061
2707.5	0.116	5989.5	0.055
2708.	0.119	5990.	0.058
2708.5	0.109	5990.5	0.056
2709.	0.114	5991.	0.061
2709.5	0.115	5991.5	0.058
2710.	0.11	5992.	0.055
2710.5	0.117	5992.5	0.058
2711.	0.112	5993.	0.058
2711.5	0.113	5993.5	0.059
2712.	0.115	5994.	0.055
2712.5	0.118	5994.5	0.058
2713.	0.111	5995.	0.06
2713.5	0.116	5995.5	0.054
2714.	0.114	5996.	0.052
2714.5	0.111	5996.5	0.057
2715.	0.113	5997.	0.055
2715.5	0.112	5997.5	0.052
2716.	0.117	5998.	0.064
2716.5	0.11	5998.5	0.056
2717.	0.111	5999.	0.057
2717.5	0.117	5999.5	0.056
2718.	0.108	6000.	0.057
2718.5	0.12	6000.5	0.06
2719.	0.116	6001.	0.054
2719.5	0.115	6001.5	0.057
2720.	0.11	6002.	0.056
2720.5	0.117	6002.5	0.056
2721.	0.12	6003.	0.057
2721.5	0.113	6003.5	0.055
2722.	0.113	6004.	0.062
2722.5	0.117	6004.5	0.051
2723.	0.117	6005.	0.055
2723.5	0.116	6005.5	0.06
2724.	0.111	6006.	0.064
2724.5	0.115	6006.5	0.062
2725.	0.111	6007.	0.056
2725.5	0.116	6007.5	0.056
2726.	0.11	6008.	0.058
2726.5	0.115	6008.5	0.055
2727.	0.117	6009.	0.06
2727.5	0.114	6009.5	0.054
2728.	0.116	6010.	0.067
2728.5	0.118	6010.5	0.052
2729.	0.117	6011.	0.062
2729.5	0.112	6011.5	0.059
2730.	0.112	6012.	0.057
2730.5	0.116	6012.5	0.057
2731.	0.113	6013.	0.059

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2731.5	0.117	6013.5	0.056
2732.	0.105	6014.	0.057
2732.5	0.116	6014.5	0.055
2733.	0.115	6015.	0.063
2733.5	0.115	6015.5	0.053
2734.	0.115	6016.	0.059
2734.5	0.11	6016.5	0.054
2735.	0.109	6017.	0.064
2735.5	0.11	6017.5	0.061
2736.	0.108	6018.	0.056
2736.5	0.119	6018.5	0.051
2737.	0.109	6019.	0.058
2737.5	0.11	6019.5	0.057
2738.	0.12	6020.	0.056
2738.5	0.113	6020.5	0.057
2739.	0.113	6021.	0.059
2739.5	0.111	6021.5	0.057
2740.	0.119	6022.	0.058
2740.5	0.117	6022.5	0.057
2741.	0.119	6023.	0.059
2741.5	0.113	6023.5	0.058
2742.	0.11	6024.	0.058
2742.5	0.115	6024.5	0.057
2743.	0.112	6025.	0.057
2743.5	0.113	6025.5	0.061
2744.	0.114	6026.	0.06
2744.5	0.115	6026.5	0.056
2745.	0.114	6027.	0.063
2745.5	0.113	6027.5	0.057
2746.	0.113	6028.	0.057
2746.5	0.112	6028.5	0.054
2747.	0.11	6029.	0.055
2747.5	0.106	6029.5	0.055
2748.	0.117	6030.	0.057
2748.5	0.114	6030.5	0.053
2749.	0.11	6031.	0.062
2749.5	0.115	6031.5	0.055
2750.	0.112	6032.	0.058
2750.5	0.111	6032.5	0.053
2751.	0.111	6033.	0.057
2751.5	0.117	6033.5	0.059
2752.	0.113	6034.	0.06
2752.5	0.116	6034.5	0.057
2753.	0.108	6035.	0.058
2753.5	0.113	6035.5	0.061
2754.	0.112	6036.	0.06
2754.5	0.107	6036.5	0.058
2755.	0.108	6037.	0.057
2755.5	0.113	6037.5	0.053
2756.	0.114	6038.	0.063
2756.5	0.111	6038.5	0.058
2757.	0.12	6039.	0.065
2757.5	0.113	6039.5	0.062
2758.	0.112	6040.	0.059
2758.5	0.112	6040.5	0.059
2759.	0.116	6041.	0.062
2759.5	0.113	6041.5	0.057
2760.	0.108	6042.	0.062
2760.5	0.117	6042.5	0.053
2761.	0.11	6043.	0.059
2761.5	0.113	6043.5	0.057
2762.	0.108	6044.	0.06
2762.5	0.117	6044.5	0.058
2763.	0.119	6045.	0.063
2763.5	0.109	6045.5	0.061
2764.	0.116	6046.	0.063
2764.5	0.113	6046.5	0.057

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2765.	0.118	6047.	0.059
2765.5	0.113	6047.5	0.059
2766.	0.119	6048.	0.06
2766.5	0.113	6048.5	0.056
2767.	0.11	6049.	0.058
2767.5	0.117	6049.5	0.061
2768.	0.109	6050.	0.06
2768.5	0.112	6050.5	0.055
2769.	0.107	6051.	0.056
2769.5	0.112	6051.5	0.06
2770.	0.109	6052.	0.064
2770.5	0.115	6052.5	0.061
2771.	0.115	6053.	0.061
2771.5	0.115	6053.5	0.057
2772.	0.118	6054.	0.063
2772.5	0.113	6054.5	0.062
2773.	0.111	6055.	0.059
2773.5	0.113	6055.5	0.061
2774.	0.11	6056.	0.061
2774.5	0.115	6056.5	0.06
2775.	0.113	6057.	0.06
2775.5	0.112	6057.5	0.061
2776.	0.115	6058.	0.06
2776.5	0.114	6058.5	0.057
2777.	0.112	6059.	0.059
2777.5	0.118	6059.5	0.062
2778.	0.114	6060.	0.061
2778.5	0.112	6060.5	0.063
2779.	0.11	6061.	0.056
2779.5	0.111	6061.5	0.056
2780.	0.11	6062.	0.064
2780.5	0.114	6062.5	0.058
2781.	0.112	6063.	0.06
2781.5	0.116	6063.5	0.059
2782.	0.112	6064.	0.056
2782.5	0.111	6064.5	0.058
2783.	0.113	6065.	0.061
2783.5	0.106	6065.5	0.061
2784.	0.112	6066.	0.062
2784.5	0.112	6066.5	0.057
2785.	0.118	6067.	0.057
2785.5	0.111	6067.5	0.059
2786.	0.108	6068.	0.058
2786.5	0.11	6068.5	0.064
2787.	0.109	6069.	0.056
2787.5	0.113	6069.5	0.062
2788.	0.115	6070.	0.057
2788.5	0.114	6070.5	0.057
2789.	0.108	6071.	0.058
2789.5	0.114	6071.5	0.065
2790.	0.109	6072.	0.061
2790.5	0.112	6072.5	0.059
2791.	0.113	6073.	0.063
2791.5	0.11	6073.5	0.054
2792.	0.11	6074.	0.052
2792.5	0.112	6074.5	0.062
2793.	0.11	6075.	0.054
2793.5	0.109	6075.5	0.055
2794.	0.113	6076.	0.06
2794.5	0.113	6076.5	0.058
2795.	0.111	6077.	0.057
2795.5	0.111	6077.5	0.055
2796.	0.114	6078.	0.06
2796.5	0.109	6078.5	0.061
2797.	0.103	6079.	0.057
2797.5	0.114	6079.5	0.056
2798.	0.11	6080.	0.055

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2798.5	0.112	6080.5	0.06
2799.	0.109	6081.	0.06
2799.5	0.109	6081.5	0.062
2800.	0.107	6082.	0.059
2800.5	0.114	6082.5	0.056
2801.	0.109	6083.	0.057
2801.5	0.114	6083.5	0.056
2802.	0.116	6084.	0.056
2802.5	0.112	6084.5	0.06
2803.	0.112	6085.	0.057
2803.5	0.12	6085.5	0.054
2804.	0.11	6086.	0.057
2804.5	0.112	6086.5	0.056
2805.	0.115	6087.	0.059
2805.5	0.113	6087.5	0.056
2806.	0.108	6088.	0.054
2806.5	0.111	6088.5	0.059
2807.	0.115	6089.	0.06
2807.5	0.116	6089.5	0.058
2808.	0.108	6090.	0.052
2808.5	0.117	6090.5	0.056
2809.	0.111	6091.	0.058
2809.5	0.11	6091.5	0.065
2810.	0.112	6092.	0.061
2810.5	0.113	6092.5	0.057
2811.	0.114	6093.	0.059
2811.5	0.117	6093.5	0.054
2812.	0.106	6094.	0.061
2812.5	0.114	6094.5	0.06
2813.	0.108	6095.	0.058
2813.5	0.111	6095.5	0.058
2814.	0.11	6096.	0.054
2814.5	0.113	6096.5	0.055
2815.	0.112	6097.	0.059
2815.5	0.114	6097.5	0.056
2816.	0.106	6098.	0.056
2816.5	0.114	6098.5	0.051
2817.	0.109	6099.	0.059
2817.5	0.11	6099.5	0.061
2818.	0.112	6100.	0.057
2818.5	0.113	6100.5	0.051
2819.	0.108	6101.	0.053
2819.5	0.114	6101.5	0.054
2820.	0.111	6102.	0.056
2820.5	0.112	6102.5	0.065
2821.	0.116	6103.	0.05
2821.5	0.108	6103.5	0.059
2822.	0.109	6104.	0.058
2822.5	0.11	6104.5	0.059
2823.	0.115	6105.	0.056
2823.5	0.112	6105.5	0.051
2824.	0.112	6106.	0.052
2824.5	0.108	6106.5	0.057
2825.	0.112	6107.	0.056
2825.5	0.107	6107.5	0.054
2826.	0.113	6108.	0.057
2826.5	0.116	6108.5	0.057
2827.	0.112	6109.	0.057
2827.5	0.111	6109.5	0.059
2828.	0.111	6110.	0.06
2828.5	0.111	6110.5	0.058
2829.	0.11	6111.	0.055
2829.5	0.11	6111.5	0.061
2830.	0.114	6112.	0.055
2830.5	0.11	6112.5	0.058
2831.	0.11	6113.	0.05
2831.5	0.112	6113.5	0.051

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2832.	0.113	6114.	0.061
2832.5	0.111	6114.5	0.053
2833.	0.113	6115.	0.06
2833.5	0.111	6115.5	0.053
2834.	0.109	6116.	0.058
2834.5	0.108	6116.5	0.052
2835.	0.11	6117.	0.062
2835.5	0.106	6117.5	0.051
2836.	0.112	6118.	0.059
2836.5	0.112	6118.5	0.054
2837.	0.112	6119.	0.056
2837.5	0.109	6119.5	0.059
2838.	0.109	6120.	0.059
2838.5	0.107	6120.5	0.056
2839.	0.104	6121.	0.059
2839.5	0.114	6121.5	0.057
2840.	0.113	6122.	0.056
2840.5	0.111	6122.5	0.061
2841.	0.112	6123.	0.056
2841.5	0.111	6123.5	0.055
2842.	0.112	6124.	0.053
2842.5	0.112	6124.5	0.054
2843.	0.112	6125.	0.051
2843.5	0.105	6125.5	0.055
2844.	0.112	6126.	0.058
2844.5	0.108	6126.5	0.054
2845.	0.111	6127.	0.054
2845.5	0.107	6127.5	0.061
2846.	0.109	6128.	0.057
2846.5	0.117	6128.5	0.056
2847.	0.106	6129.	0.06
2847.5	0.113	6129.5	0.061
2848.	0.113	6130.	0.058
2848.5	0.117	6130.5	0.061
2849.	0.116	6131.	0.057
2849.5	0.109	6131.5	0.055
2850.	0.109	6132.	0.054
2850.5	0.111	6132.5	0.049
2851.	0.11	6133.	0.06
2851.5	0.11	6133.5	0.056
2852.	0.111	6134.	0.06
2852.5	0.111	6134.5	0.058
2853.	0.109	6135.	0.057
2853.5	0.107	6135.5	0.059
2854.	0.106	6136.	0.058
2854.5	0.11	6136.5	0.061
2855.	0.11	6137.	0.056
2855.5	0.111	6137.5	0.056
2856.	0.11	6138.	0.057
2856.5	0.106	6138.5	0.057
2857.	0.114	6139.	0.057
2857.5	0.109	6139.5	0.056
2858.	0.115	6140.	0.062
2858.5	0.114	6140.5	0.057
2859.	0.115	6141.	0.062
2859.5	0.112	6141.5	0.057
2860.	0.107	6142.	0.059
2860.5	0.114	6142.5	0.06
2861.	0.108	6143.	0.054
2861.5	0.114	6143.5	0.052
2862.	0.106	6144.	0.056
2862.5	0.115	6144.5	0.056
2863.	0.109	6145.	0.053
2863.5	0.111	6145.5	0.061
2864.	0.112	6146.	0.052
2864.5	0.11	6146.5	0.056
2865.	0.106	6147.	0.055

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2865.5	0.112	6147.5	0.055
2866.	0.111	6148.	0.059
2866.5	0.112	6148.5	0.054
2867.	0.107	6149.	0.058
2867.5	0.112	6149.5	0.056
2868.	0.111	6150.	0.054
2868.5	0.107	6150.5	0.055
2869.	0.11	6151.	0.056
2869.5	0.113	6151.5	0.057
2870.	0.107	6152.	0.055
2870.5	0.107	6152.5	0.055
2871.	0.111	6153.	0.057
2871.5	0.111	6153.5	0.048
2872.	0.111	6154.	0.054
2872.5	0.108	6154.5	0.058
2873.	0.111	6155.	0.053
2873.5	0.107	6155.5	0.055
2874.	0.108	6156.	0.057
2874.5	0.11	6156.5	0.057
2875.	0.116	6157.	0.051
2875.5	0.112	6157.5	0.057
2876.	0.109	6158.	0.06
2876.5	0.113	6158.5	0.056
2877.	0.11	6159.	0.055
2877.5	0.114	6159.5	0.056
2878.	0.11	6160.	0.056
2878.5	0.108	6160.5	0.063
2879.	0.108	6161.	0.06
2879.5	0.11	6161.5	0.059
2880.	0.11	6162.	0.061
2880.5	0.11	6162.5	0.059
2881.	0.111	6163.	0.059
2881.5	0.113	6163.5	0.056
2882.	0.111	6164.	0.056
2882.5	0.105	6164.5	0.058
2883.	0.11	6165.	0.056
2883.5	0.11	6165.5	0.053
2884.	0.106	6166.	0.051
2884.5	0.11	6166.5	0.052
2885.	0.106	6167.	0.056
2885.5	0.107	6167.5	0.057
2886.	0.114	6168.	0.056
2886.5	0.112	6168.5	0.058
2887.	0.106	6169.	0.053
2887.5	0.115	6169.5	0.061
2888.	0.107	6170.	0.059
2888.5	0.112	6170.5	0.061
2889.	0.105	6171.	0.056
2889.5	0.106	6171.5	0.06
2890.	0.107	6172.	0.058
2890.5	0.102	6172.5	0.057
2891.	0.112	6173.	0.061
2891.5	0.114	6173.5	0.059
2892.	0.109	6174.	0.057
2892.5	0.115	6174.5	0.053
2893.	0.104	6175.	0.054
2893.5	0.107	6175.5	0.059
2894.	0.108	6176.	0.054
2894.5	0.114	6176.5	0.061
2895.	0.107	6177.	0.052
2895.5	0.107	6177.5	0.053
2896.	0.107	6178.	0.058
2896.5	0.107	6178.5	0.055
2897.	0.105	6179.	0.057
2897.5	0.108	6179.5	0.059
2898.	0.113	6180.	0.055
2898.5	0.107	6180.5	0.059

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2899.	0.101	6181.	0.062
2899.5	0.113	6181.5	0.053
2900.	0.109	6182.	0.053
2900.5	0.112	6182.5	0.053
2901.	0.114	6183.	0.054
2901.5	0.11	6183.5	0.06
2902.	0.108	6184.	0.055
2902.5	0.109	6184.5	0.057
2903.	0.103	6185.	0.056
2903.5	0.111	6185.5	0.054
2904.	0.112	6186.	0.052
2904.5	0.11	6186.5	0.057
2905.	0.104	6187.	0.058
2905.5	0.11	6187.5	0.055
2906.	0.112	6188.	0.051
2906.5	0.106	6188.5	0.059
2907.	0.105	6189.	0.052
2907.5	0.105	6189.5	0.059
2908.	0.111	6190.	0.051
2908.5	0.107	6190.5	0.059
2909.	0.109	6191.	0.057
2909.5	0.106	6191.5	0.061
2910.	0.106	6192.	0.049
2910.5	0.108	6192.5	0.056
2911.	0.107	6193.	0.058
2911.5	0.109	6193.5	0.056
2912.	0.113	6194.	0.056
2912.5	0.108	6194.5	0.052
2913.	0.103	6195.	0.058
2913.5	0.106	6195.5	0.052
2914.	0.108	6196.	0.052
2914.5	0.104	6196.5	0.049
2915.	0.109	6197.	0.048
2915.5	0.111	6197.5	0.056
2916.	0.11	6198.	0.052
2916.5	0.105	6198.5	0.057
2917.	0.109	6199.	0.057
2917.5	0.107	6199.5	0.056
2918.	0.107	6200.	0.055
2918.5	0.107	6200.5	0.054
2919.	0.111	6201.	0.056
2919.5	0.113	6201.5	0.052
2920.	0.114	6202.	0.053
2920.5	0.109	6202.5	0.052
2921.	0.108	6203.	0.062
2921.5	0.109	6203.5	0.049
2922.	0.11	6204.	0.056
2922.5	0.112	6204.5	0.054
2923.	0.109	6205.	0.052
2923.5	0.112	6205.5	0.057
2924.	0.111	6206.	0.055
2924.5	0.109	6206.5	0.053
2925.	0.108	6207.	0.052
2925.5	0.104	6207.5	0.06
2926.	0.104	6208.	0.058
2926.5	0.106	6208.5	0.052
2927.	0.109	6209.	0.05
2927.5	0.116	6209.5	0.054
2928.	0.103	6210.	0.054
2928.5	0.109	6210.5	0.055
2929.	0.108	6211.	0.053
2929.5	0.111	6211.5	0.053
2930.	0.11	6212.	0.059
2930.5	0.107	6212.5	0.057
2931.	0.113	6213.	0.051
2931.5	0.108	6213.5	0.05
2932.	0.108	6214.	0.057

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2932.5	0.111	6214.5	0.053
2933.	0.105	6215.	0.056
2933.5	0.102	6215.5	0.056
2934.	0.112	6216.	0.054
2934.5	0.111	6216.5	0.053
2935.	0.105	6217.	0.054
2935.5	0.106	6217.5	0.053
2936.	0.11	6218.	0.056
2936.5	0.114	6218.5	0.054
2937.	0.105	6219.	0.06
2937.5	0.11	6219.5	0.059
2938.	0.104	6220.	0.057
2938.5	0.113	6220.5	0.051
2939.	0.109	6221.	0.061
2939.5	0.11	6221.5	0.056
2940.	0.112	6222.	0.054
2940.5	0.105	6222.5	0.047
2941.	0.108	6223.	0.055
2941.5	0.104	6223.5	0.053
2942.	0.105	6224.	0.049
2942.5	0.106	6224.5	0.055
2943.	0.106	6225.	0.059
2943.5	0.113	6225.5	0.047
2944.	0.102	6226.	0.053
2944.5	0.11	6226.5	0.05
2945.	0.11	6227.	0.055
2945.5	0.105	6227.5	0.06
2946.	0.107	6228.	0.057
2946.5	0.109	6228.5	0.055
2947.	0.105	6229.	0.059
2947.5	0.107	6229.5	0.056
2948.	0.105	6230.	0.05
2948.5	0.108	6230.5	0.049
2949.	0.11	6231.	0.059
2949.5	0.103	6231.5	0.053
2950.	0.103	6232.	0.055
2950.5	0.112	6232.5	0.056
2951.	0.106	6233.	0.053
2951.5	0.103	6233.5	0.054
2952.	0.107	6234.	0.054
2952.5	0.104	6234.5	0.055
2953.	0.103	6235.	0.055
2953.5	0.11	6235.5	0.053
2954.	0.108	6236.	0.054
2954.5	0.108	6236.5	0.057
2955.	0.108	6237.	0.05
2955.5	0.109	6237.5	0.06
2956.	0.107	6238.	0.054
2956.5	0.101	6238.5	0.053
2957.	0.106	6239.	0.05
2957.5	0.106	6239.5	0.05
2958.	0.107	6240.	0.054
2958.5	0.11	6240.5	0.054
2959.	0.11	6241.	0.055
2959.5	0.112	6241.5	0.06
2960.	0.1	6242.	0.052
2960.5	0.111	6242.5	0.051
2961.	0.109	6243.	0.056
2961.5	0.106	6243.5	0.051
2962.	0.104	6244.	0.057
2962.5	0.104	6244.5	0.055
2963.	0.102	6245.	0.054
2963.5	0.106	6245.5	0.055
2964.	0.101	6246.	0.052
2964.5	0.108	6246.5	0.053
2965.	0.105	6247.	0.056
2965.5	0.111	6247.5	0.055

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2966.	0.102	6248.	0.057
2966.5	0.109	6248.5	0.053
2967.	0.105	6249.	0.058
2967.5	0.106	6249.5	0.053
2968.	0.106	6250.	0.055
2968.5	0.112	6250.5	0.053
2969.	0.099	6251.	0.053
2969.5	0.113	6251.5	0.047
2970.	0.107	6252.	0.057
2970.5	0.105	6252.5	0.055
2971.	0.109	6253.	0.054
2971.5	0.106	6253.5	0.052
2972.	0.107	6254.	0.056
2972.5	0.112	6254.5	0.053
2973.	0.105	6255.	0.054
2973.5	0.108	6255.5	0.052
2974.	0.105	6256.	0.058
2974.5	0.103	6256.5	0.052
2975.	0.106	6257.	0.059
2975.5	0.11	6257.5	0.055
2976.	0.11	6258.	0.055
2976.5	0.11	6258.5	0.057
2977.	0.111	6259.	0.054
2977.5	0.105	6259.5	0.055
2978.	0.109	6260.	0.059
2978.5	0.111	6260.5	0.058
2979.	0.106	6261.	0.053
2979.5	0.111	6261.5	0.058
2980.	0.109	6262.	0.057
2980.5	0.101	6262.5	0.057
2981.	0.103	6263.	0.053
2981.5	0.104	6263.5	0.057
2982.	0.109	6264.	0.057
2982.5	0.103	6264.5	0.052
2983.	0.103	6265.	0.053
2983.5	0.105	6265.5	0.048
2984.	0.104	6266.	0.057
2984.5	0.102	6266.5	0.057
2985.	0.104	6267.	0.055
2985.5	0.106	6267.5	0.052
2986.	0.11	6268.	0.05
2986.5	0.111	6268.5	0.053
2987.	0.106	6269.	0.058
2987.5	0.111	6269.5	0.052
2988.	0.106	6270.	0.058
2988.5	0.104	6270.5	0.056
2989.	0.113	6271.	0.05
2989.5	0.108	6271.5	0.054
2990.	0.109	6272.	0.053
2990.5	0.1	6272.5	0.056
2991.	0.103	6273.	0.056
2991.5	0.104	6273.5	0.052
2992.	0.113	6274.	0.052
2992.5	0.102	6274.5	0.059
2993.	0.104	6275.	0.053
2993.5	0.103	6275.5	0.056
2994.	0.104	6276.	0.054
2994.5	0.104	6276.5	0.054
2995.	0.103	6277.	0.06
2995.5	0.105	6277.5	0.049
2996.	0.109	6278.	0.049
2996.5	0.105	6278.5	0.052
2997.	0.103	6279.	0.058
2997.5	0.103	6279.5	0.057
2998.	0.106	6280.	0.056
2998.5	0.109	6280.5	0.054
2999.	0.108	6281.	0.056

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
2999.5	0.107	6281.5	0.053
3000.	0.106	6282.	0.055
3000.5	0.107	6282.5	0.05
3001.	0.106	6283.	0.055
3001.5	0.111	6283.5	0.059
3002.	0.108	6284.	0.052
3002.5	0.11	6284.5	0.057
3003.	0.101	6285.	0.057
3003.5	0.103	6285.5	0.053
3004.	0.107	6286.	0.055
3004.5	0.109	6286.5	0.057
3005.	0.106	6287.	0.058
3005.5	0.109	6287.5	0.054
3006.	0.108	6288.	0.054
3006.5	0.11	6288.5	0.062
3007.	0.105	6289.	0.056
3007.5	0.109	6289.5	0.056
3008.	0.1	6290.	0.059
3008.5	0.104	6290.5	0.058
3009.	0.11	6291.	0.055
3009.5	0.105	6291.5	0.056
3010.	0.105	6292.	0.058
3010.5	0.108	6292.5	0.057
3011.	0.103	6293.	0.05
3011.5	0.112	6293.5	0.051
3012.	0.106	6294.	0.055
3012.5	0.113	6294.5	0.05
3013.	0.103	6295.	0.052
3013.5	0.105	6295.5	0.056
3014.	0.104	6296.	0.053
3014.5	0.105	6296.5	0.058
3015.	0.104	6297.	0.058
3015.5	0.108	6297.5	0.053
3016.	0.102	6298.	0.055
3016.5	0.106	6298.5	0.057
3017.	0.106	6299.	0.055
3017.5	0.103	6299.5	0.058
3018.	0.099	6300.	0.053
3018.5	0.106	6300.5	0.059
3019.	0.106	6301.	0.057
3019.5	0.111	6301.5	0.059
3020.	0.102	6302.	0.052
3020.5	0.109	6302.5	0.058
3021.	0.104	6303.	0.057
3021.5	0.106	6303.5	0.056
3022.	0.105	6304.	0.053
3022.5	0.103	6304.5	0.05
3023.	0.105	6305.	0.056
3023.5	0.108	6305.5	0.059
3024.	0.103	6306.	0.058
3024.5	0.112	6306.5	0.052
3025.	0.099	6307.	0.056
3025.5	0.107	6307.5	0.053
3026.	0.105	6308.	0.048
3026.5	0.103	6308.5	0.055
3027.	0.101	6309.	0.06
3027.5	0.108	6309.5	0.055
3028.	0.107	6310.	0.054
3028.5	0.103	6310.5	0.058
3029.	0.102	6311.	0.052
3029.5	0.103	6311.5	0.056
3030.	0.107	6312.	0.057
3030.5	0.099	6312.5	0.058
3031.	0.104	6313.	0.058
3031.5	0.107	6313.5	0.055
3032.	0.106	6314.	0.057
3032.5	0.106	6314.5	0.054

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
3033.	0.105	6315.	0.055
3033.5	0.107	6315.5	0.052
3034.	0.103	6316.	0.06
3034.5	0.107	6316.5	0.057
3035.	0.102	6317.	0.053
3035.5	0.108	6317.5	0.058
3036.	0.108	6318.	0.054
3036.5	0.102	6318.5	0.057
3037.	0.099	6319.	0.053
3037.5	0.108	6319.5	0.058
3038.	0.101	6320.	0.058
3038.5	0.099	6320.5	0.059
3039.	0.106	6321.	0.055
3039.5	0.107	6321.5	0.055
3040.	0.1	6322.	0.054
3040.5	0.11	6322.5	0.056
3041.	0.1	6323.	0.053
3041.5	0.114	6323.5	0.052
3042.	0.099	6324.	0.054
3042.5	0.105	6324.5	0.06
3043.	0.106	6325.	0.058
3043.5	0.103	6325.5	0.053
3044.	0.105	6326.	0.052
3044.5	0.107	6326.5	0.053
3045.	0.107	6327.	0.056
3045.5	0.105	6327.5	0.055
3046.	0.108	6328.	0.061
3046.5	0.107	6328.5	0.052
3047.	0.103	6329.	0.054
3047.5	0.106	6329.5	0.057
3048.	0.099	6330.	0.059
3048.5	0.102	6330.5	0.051
3049.	0.103	6331.	0.052
3049.5	0.103	6331.5	0.054
3050.	0.104	6332.	0.058
3050.5	0.106	6332.5	0.052
3051.	0.1	6333.	0.048
3051.5	0.105	6333.5	0.056
3052.	0.101	6334.	0.055
3052.5	0.104	6334.5	0.054
3053.	0.106	6335.	0.051
3053.5	0.109	6335.5	0.05
3054.	0.108	6336.	0.054
3054.5	0.107	6336.5	0.05
3055.	0.101	6337.	0.057
3055.5	0.101	6337.5	0.054
3056.	0.103	6338.	0.051
3056.5	0.103	6338.5	0.056
3057.	0.099	6339.	0.058
3057.5	0.104	6339.5	0.053
3058.	0.097	6340.	0.056
3058.5	0.1	6340.5	0.056
3059.	0.101	6341.	0.056
3059.5	0.107	6341.5	0.056
3060.	0.102	6342.	0.056
3060.5	0.111	6342.5	0.057
3061.	0.107	6343.	0.057
3061.5	0.108	6343.5	0.055
3062.	0.107	6344.	0.057
3062.5	0.102	6344.5	0.056
3063.	0.105	6345.	0.055
3063.5	0.102	6345.5	0.059
3064.	0.109	6346.	0.057
3064.5	0.106	6346.5	0.055
3065.	0.096	6347.	0.054
3065.5	0.101	6347.5	0.053
3066.	0.102	6348.	0.061

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
3066.5	0.101	6348.5	0.061
3067.	0.109	6349.	0.053
3067.5	0.104	6349.5	0.058
3068.	0.102	6350.	0.053
3068.5	0.1	6350.5	0.058
3069.	0.106	6351.	0.055
3069.5	0.102	6351.5	0.055
3070.	0.103	6352.	0.055
3070.5	0.096	6352.5	0.055
3071.	0.107	6353.	0.062
3071.5	0.1	6353.5	0.055
3072.	0.108	6354.	0.057
3072.5	0.098	6354.5	0.052
3073.	0.108	6355.	0.054
3073.5	0.103	6355.5	0.055
3074.	0.104	6356.	0.056
3074.5	0.099	6356.5	0.051
3075.	0.103	6357.	0.052
3075.5	0.103	6357.5	0.054
3076.	0.107	6358.	0.055
3076.5	0.101	6358.5	0.057
3077.	0.101	6359.	0.061
3077.5	0.098	6359.5	0.056
3078.	0.105	6360.	0.054
3078.5	0.104	6360.5	0.058
3079.	0.1	6361.	0.058
3079.5	0.103	6361.5	0.057
3080.	0.106	6362.	0.05
3080.5	0.106	6362.5	0.053
3081.	0.098	6363.	0.05
3081.5	0.108	6363.5	0.055
3082.	0.102	6364.	0.054
3082.5	0.109	6364.5	0.051
3083.	0.1	6365.	0.055
3083.5	0.105	6365.5	0.053
3084.	0.098	6366.	0.054
3084.5	0.104	6366.5	0.051
3085.	0.104	6367.	0.056
3085.5	0.107	6367.5	0.056
3086.	0.101	6368.	0.057
3086.5	0.105	6368.5	0.052
3087.	0.102	6369.	0.055
3087.5	0.098	6369.5	0.055
3088.	0.105	6370.	0.052
3088.5	0.098	6370.5	0.056
3089.	0.105	6371.	0.051
3089.5	0.106	6371.5	0.052
3090.	0.108	6372.	0.054
3090.5	0.105	6372.5	0.058
3091.	0.101	6373.	0.055
3091.5	0.102	6373.5	0.054
3092.	0.103	6374.	0.051
3092.5	0.1	6374.5	0.053
3093.	0.104	6375.	0.053
3093.5	0.102	6375.5	0.052
3094.	0.101	6376.	0.055
3094.5	0.104	6376.5	0.053
3095.	0.102	6377.	0.053
3095.5	0.098	6377.5	0.053
3096.	0.103	6378.	0.049
3096.5	0.101	6378.5	0.054
3097.	0.1	6379.	0.049
3097.5	0.1	6379.5	0.055
3098.	0.107	6380.	0.051
3098.5	0.101	6380.5	0.051
3099.	0.1	6381.	0.054
3099.5	0.101	6381.5	0.052

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
3100.	0.104	6382.	0.058
3100.5	0.106	6382.5	0.059
3101.	0.107	6383.	0.051
3101.5	0.108	6383.5	0.051
3102.	0.1	6384.	0.052
3102.5	0.104	6384.5	0.056
3103.	0.099	6385.	0.05
3103.5	0.101	6385.5	0.053
3104.	0.105	6386.	0.058
3104.5	0.1	6386.5	0.054
3105.	0.103	6387.	0.055
3105.5	0.105	6387.5	0.054
3106.	0.103	6388.	0.059
3106.5	0.1	6388.5	0.055
3107.	0.105	6389.	0.051
3107.5	0.102	6389.5	0.05
3108.	0.097	6390.	0.055
3108.5	0.098	6390.5	0.057
3109.	0.106	6391.	0.055
3109.5	0.104	6391.5	0.052
3110.	0.102	6392.	0.053
3110.5	0.105	6392.5	0.052
3111.	0.103	6393.	0.052
3111.5	0.105	6393.5	0.055
3112.	0.101	6394.	0.054
3112.5	0.102	6394.5	0.055
3113.	0.097	6395.	0.056
3113.5	0.105	6395.5	0.053
3114.	0.103	6396.	0.052
3114.5	0.106	6396.5	0.058
3115.	0.103	6397.	0.055
3115.5	0.105	6397.5	0.049
3116.	0.103	6398.	0.054
3116.5	0.1	6398.5	0.057
3117.	0.104	6399.	0.055
3117.5	0.102	6399.5	0.054
3118.	0.1	6400.	0.055
3118.5	0.101	6400.5	0.054
3119.	0.099	6401.	0.058
3119.5	0.105	6401.5	0.057
3120.	0.104	6402.	0.053
3120.5	0.104	6402.5	0.051
3121.	0.106	6403.	0.052
3121.5	0.099	6403.5	0.058
3122.	0.104	6404.	0.05
3122.5	0.104	6404.5	0.052
3123.	0.1	6405.	0.047
3123.5	0.104	6405.5	0.059
3124.	0.1	6406.	0.049
3124.5	0.104	6406.5	0.052
3125.	0.1	6407.	0.057
3125.5	0.1	6407.5	0.06
3126.	0.102	6408.	0.051
3126.5	0.104	6408.5	0.054
3127.	0.105	6409.	0.057
3127.5	0.102	6409.5	0.049
3128.	0.102	6410.	0.053
3128.5	0.097	6410.5	0.057
3129.	0.099	6411.	0.057
3129.5	0.102	6411.5	0.055
3130.	0.103	6412.	0.054
3130.5	0.101	6412.5	0.054
3131.	0.099	6413.	0.054
3131.5	0.105	6413.5	0.06
3132.	0.1	6414.	0.052
3132.5	0.108	6414.5	0.054
3133.	0.1	6415.	0.055

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
3133.5	0.109	6415.5	0.057
3134.	0.099	6416.	0.055
3134.5	0.102	6416.5	0.061
3135.	0.098	6417.	0.055
3135.5	0.105	6417.5	0.056
3136.	0.104	6418.	0.053
3136.5	0.1	6418.5	0.055
3137.	0.1	6419.	0.05
3137.5	0.103	6419.5	0.062
3138.	0.103	6420.	0.056
3138.5	0.1	6420.5	0.054
3139.	0.105	6421.	0.055
3139.5	0.102	6421.5	0.058
3140.	0.099	6422.	0.051
3140.5	0.098	6422.5	0.057
3141.	0.103	6423.	0.052
3141.5	0.102	6423.5	0.053
3142.	0.102	6424.	0.059
3142.5	0.107	6424.5	0.053
3143.	0.107	6425.	0.05
3143.5	0.1	6425.5	0.054
3144.	0.1	6426.	0.059
3144.5	0.096	6426.5	0.06
3145.	0.101	6427.	0.051
3145.5	0.098	6427.5	0.056
3146.	0.102	6428.	0.063
3146.5	0.102	6428.5	0.053
3147.	0.099	6429.	0.057
3147.5	0.101	6429.5	0.055
3148.	0.105	6430.	0.056
3148.5	0.101	6430.5	0.057
3149.	0.098	6431.	0.05
3149.5	0.102	6431.5	0.058
3150.	0.101	6432.	0.052
3150.5	0.104	6432.5	0.054
3151.	0.099	6433.	0.062
3151.5	0.104	6433.5	0.058
3152.	0.102	6434.	0.054
3152.5	0.102	6434.5	0.061
3153.	0.105	6435.	0.055
3153.5	0.099	6435.5	0.054
3154.	0.102	6436.	0.058
3154.5	0.105	6436.5	0.054
3155.	0.104	6437.	0.054
3155.5	0.096	6437.5	0.055
3156.	0.107	6438.	0.059
3156.5	0.097	6438.5	0.05
3157.	0.094	6439.	0.05
3157.5	0.104	6439.5	0.058
3158.	0.104	6440.	0.057
3158.5	0.104	6440.5	0.055
3159.	0.101	6441.	0.053
3159.5	0.099	6441.5	0.056
3160.	0.103	6442.	0.052
3160.5	0.1	6442.5	0.056
3161.	0.102	6443.	0.049
3161.5	0.099	6443.5	0.052
3162.	0.102	6444.	0.052
3162.5	0.106	6444.5	0.053
3163.	0.097	6445.	0.055
3163.5	0.101	6445.5	0.062
3164.	0.1	6446.	0.052
3164.5	0.1	6446.5	0.055
3165.	0.102	6447.	0.046
3165.5	0.104	6447.5	0.055
3166.	0.101	6448.	0.049
3166.5	0.098	6448.5	0.057

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
3167.	0.097	6449.	0.056
3167.5	0.106	6449.5	0.056
3168.	0.104	6450.	0.05
3168.5	0.101	6450.5	0.05
3169.	0.098	6451.	0.051
3169.5	0.106	6451.5	0.051
3170.	0.098	6452.	0.057
3170.5	0.103	6452.5	0.053
3171.	0.1	6453.	0.047
3171.5	0.107	6453.5	0.062
3172.	0.097	6454.	0.058
3172.5	0.101	6454.5	0.055
3173.	0.105	6455.	0.05
3173.5	0.099	6455.5	0.059
3174.	0.109	6456.	0.053
3174.5	0.102	6456.5	0.052
3175.	0.1	6457.	0.051
3175.5	0.102	6457.5	0.057
3176.	0.096	6458.	0.044
3176.5	0.104	6458.5	0.053
3177.	0.098	6459.	0.057
3177.5	0.101	6459.5	0.053
3178.	0.107	6460.	0.051
3178.5	0.102	6460.5	0.057
3179.	0.097	6461.	0.052
3179.5	0.104	6461.5	0.05
3180.	0.101	6462.	0.054
3180.5	0.1	6462.5	0.054
3181.	0.099	6463.	0.057
3181.5	0.096	6463.5	0.056
3182.	0.1	6464.	0.05
3182.5	0.103	6464.5	0.052
3183.	0.102	6465.	0.05
3183.5	0.103	6465.5	0.054
3184.	0.1	6466.	0.051
3184.5	0.102	6466.5	0.055
3185.	0.099	6467.	0.051
3185.5	0.1	6467.5	0.052
3186.	0.101	6468.	0.055
3186.5	0.098	6468.5	0.057
3187.	0.101	6469.	0.055
3187.5	0.1	6469.5	0.056
3188.	0.101	6470.	0.049
3188.5	0.099	6470.5	0.054
3189.	0.106	6471.	0.052
3189.5	0.094	6471.5	0.056
3190.	0.101	6472.	0.053
3190.5	0.098	6472.5	0.055
3191.	0.1	6473.	0.05
3191.5	0.104	6473.5	0.055
3192.	0.101	6474.	0.053
3192.5	0.101	6474.5	0.056
3193.	0.098	6475.	0.055
3193.5	0.099	6475.5	0.054
3194.	0.095	6476.	0.048
3194.5	0.099	6476.5	0.051
3195.	0.097	6477.	0.054
3195.5	0.104	6477.5	0.051
3196.	0.103	6478.	0.053
3196.5	0.099	6478.5	0.056
3197.	0.099	6479.	0.054
3197.5	0.104	6479.5	0.057
3198.	0.098	6480.	0.054
3198.5	0.099	6480.5	0.05
3199.	0.104	6481.	0.049
3199.5	0.095	6481.5	0.051
3200.	0.096	6482.	0.051

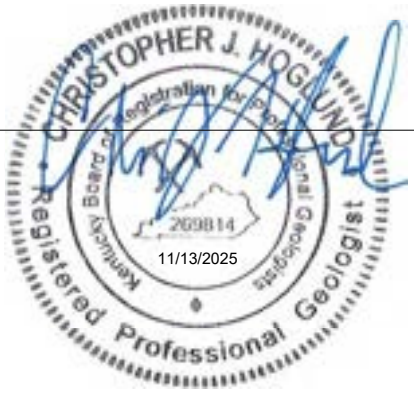
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
3200.5	0.102	6482.5	0.049
3201.	0.095	6483.	0.057
3201.5	0.101	6483.5	0.057
3202.	0.102	6484.	0.05
3202.5	0.1	6484.5	0.058
3203.	0.106	6485.	0.052
3203.5	0.096	6485.5	0.054
3204.	0.102	6486.	0.055
3204.5	0.1	6486.5	0.052
3205.	0.099	6487.	0.05
3205.5	0.101	6487.5	0.054
3206.	0.097	6488.	0.052
3206.5	0.1	6488.5	0.059
3207.	0.103	6489.	0.055
3207.5	0.101	6489.5	0.058
3208.	0.099	6490.	0.053
3208.5	0.1	6490.5	0.052
3209.	0.098	6491.	0.055
3209.5	0.095	6491.5	0.056
3210.	0.096	6492.	0.05
3210.5	0.1	6492.5	0.049
3211.	0.092	6493.	0.048
3211.5	0.101	6493.5	0.052
3212.	0.095	6494.	0.054
3212.5	0.101	6494.5	0.057
3213.	0.101	6495.	0.051
3213.5	0.101	6495.5	0.057
3214.	0.101	6496.	0.05
3214.5	0.106	6496.5	0.057
3215.	0.1	6497.	0.055
3215.5	0.102	6497.5	0.056
3216.	0.099	6498.	0.051
3216.5	0.098	6498.5	0.05
3217.	0.091	6499.	0.05
3217.5	0.1	6499.5	0.054
3218.	0.097	6500.	0.055
3218.5	0.102	6500.5	0.054
3219.	0.096	6501.	0.056
3219.5	0.099	6501.5	0.047
3220.	0.098	6502.	0.056
3220.5	0.094	6502.5	0.052
3221.	0.101	6503.	0.052
3221.5	0.102	6503.5	0.051
3222.	0.102	6504.	0.056
3222.5	0.096	6504.5	0.054
3223.	0.094	6505.	0.056
3223.5	0.1	6505.5	0.056
3224.	0.097	6506.	0.051
3224.5	0.096	6506.5	0.05
3225.	0.093	6507.	0.055
3225.5	0.1	6507.5	0.055
3226.	0.097	6508.	0.05
3226.5	0.099	6508.5	0.056
3227.	0.099	6509.	0.053
3227.5	0.094	6509.5	0.054
3228.	0.098	6510.	0.051
3228.5	0.097	6510.5	0.055
3229.	0.094	6511.	0.049
3229.5	0.1	6511.5	0.058
3230.	0.094	6512.	0.053
3230.5	0.096	6512.5	0.046
3231.	0.098	6513.	0.053
3231.5	0.1	6513.5	0.059
3232.	0.093	6514.	0.048
3232.5	0.095	6514.5	0.051
3233.	0.094	6515.	0.057
3233.5	0.094	6515.5	0.057

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
3234.	0.102	6516.	0.045
3234.5	0.1	6516.5	0.055
3235.	0.097	6517.	0.051
3235.5	0.097	6517.5	0.054
3236.	0.095	6518.	0.051
3236.5	0.095	6518.5	0.059
3237.	0.094	6519.	0.051
3237.5	0.097	6519.5	0.055
3238.	0.105	6520.	0.052
3238.5	0.099	6520.5	0.055
3239.	0.097	6521.	0.054
3239.5	0.1	6521.5	0.053
3240.	0.1	6522.	0.051
3240.5	0.094	6522.5	0.054
3241.	0.095	6523.	0.052
3241.5	0.099	6523.5	0.053
3242.	0.098	6524.	0.051
3242.5	0.098	6524.5	0.059
3243.	0.103	6525.	0.055
3243.5	0.097	6525.5	0.056
3244.	0.099	6526.	0.05
3244.5	0.098	6526.5	0.055
3245.	0.105	6527.	0.056
3245.5	0.099	6527.5	0.054
3246.	0.097	6528.	0.052
3246.5	0.096	6528.5	0.052
3247.	0.099	6529.	0.053
3247.5	0.102	6529.5	0.055
3248.	0.099	6530.	0.053
3248.5	0.095	6530.5	0.047
3249.	0.096	6531.	0.053
3249.5	0.101	6531.5	0.057
3250.	0.097	6532.	0.058
3250.5	0.101	6532.5	0.061
3251.	0.1	6533.	0.054
3251.5	0.098	6533.5	0.057
3252.	0.096	6534.	0.051
3252.5	0.096	6534.5	0.054
3253.	0.101	6535.	0.053
3253.5	0.097	6535.5	0.059
3254.	0.097	6536.	0.053
3254.5	0.095	6536.5	0.051
3255.	0.098	6537.	0.05
3255.5	0.096	6537.5	0.055
3256.	0.093	6538.	0.051
3256.5	0.099	6538.5	0.057
3257.	0.102	6539.	0.055
3257.5	0.093	6539.5	0.054
3258.	0.098	6540.	0.052
3258.5	0.099	6540.5	0.055
3259.	0.098	6541.	0.051
3259.5	0.103	6541.5	0.054
3260.	0.095	6542.	0.051
3260.5	0.098	6542.5	0.053
3261.	0.094	6543.	0.052
3261.5	0.095	6543.5	0.057
3262.	0.097	6544.	0.056
3262.5	0.097	6544.5	0.052
3263.	0.098	6545.	0.055
3263.5	0.096	6545.5	0.052
3264.	0.096	6546.	0.055
3264.5	0.101	6546.5	0.055
3265.	0.095	6547.	0.054
3265.5	0.095	6547.5	0.062
3266.	0.101	6548.	0.054
3266.5	0.098	6548.5	0.053
3267.	0.098	6549.	0.053

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
3267.5	0.093	6549.5	0.058
3268.	0.102	6550.	0.055
3268.5	0.1	6550.5	0.056
3269.	0.1	6551.	0.055
3269.5	0.096	6551.5	0.056
3270.	0.095	6552.	0.057
3270.5	0.102	6552.5	0.052
3271.	0.098	6553.	0.053
3271.5	0.096	6553.5	0.055
3272.	0.101	6554.	0.05
3272.5	0.094	6554.5	0.056
3273.	0.1	6555.	0.054
3273.5	0.097	6555.5	0.056
3274.	0.101	6556.	0.059
3274.5	0.099	6556.5	0.051
3275.	0.094	6557.	0.055
3275.5	0.1	6557.5	0.051
3276.	0.102	6558.	0.054
3276.5	0.096	6558.5	0.056
3277.	0.099	6559.	0.053
3277.5	0.093	6559.5	0.057
3278.	0.1	6560.	0.054
3278.5	0.097	6560.5	0.052
3279.	0.094	6561.	0.055
3279.5	0.097	6561.5	0.055
3280.	0.091	6562.	0.059
3280.5	0.103	6562.5	0.06
3281.	0.092	6563.	0.052
3281.5	0.098	6563.5	0.056
3282.	0.093	6564.	0.058
3282.5	0.1	6564.5	0.056
3283.	0.093	6565.	0.053
3283.5	0.096	6565.5	0.053
3284.	0.102		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model



VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	1.871E-5	cm/sec
Ss	0.006313	ft^{-1}
Kz/Kr	1.	

T = K*b = 0.009035 cm²/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	2.06E-5	2.159E-7	+/- 4.232E-7	95.39	cm/sec
Ss	0.006313	0.000144	+/- 0.0002822	43.85	ft^{-1}
Kz/Kr	1.	not estimated			

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 0.009944 cm²/sec

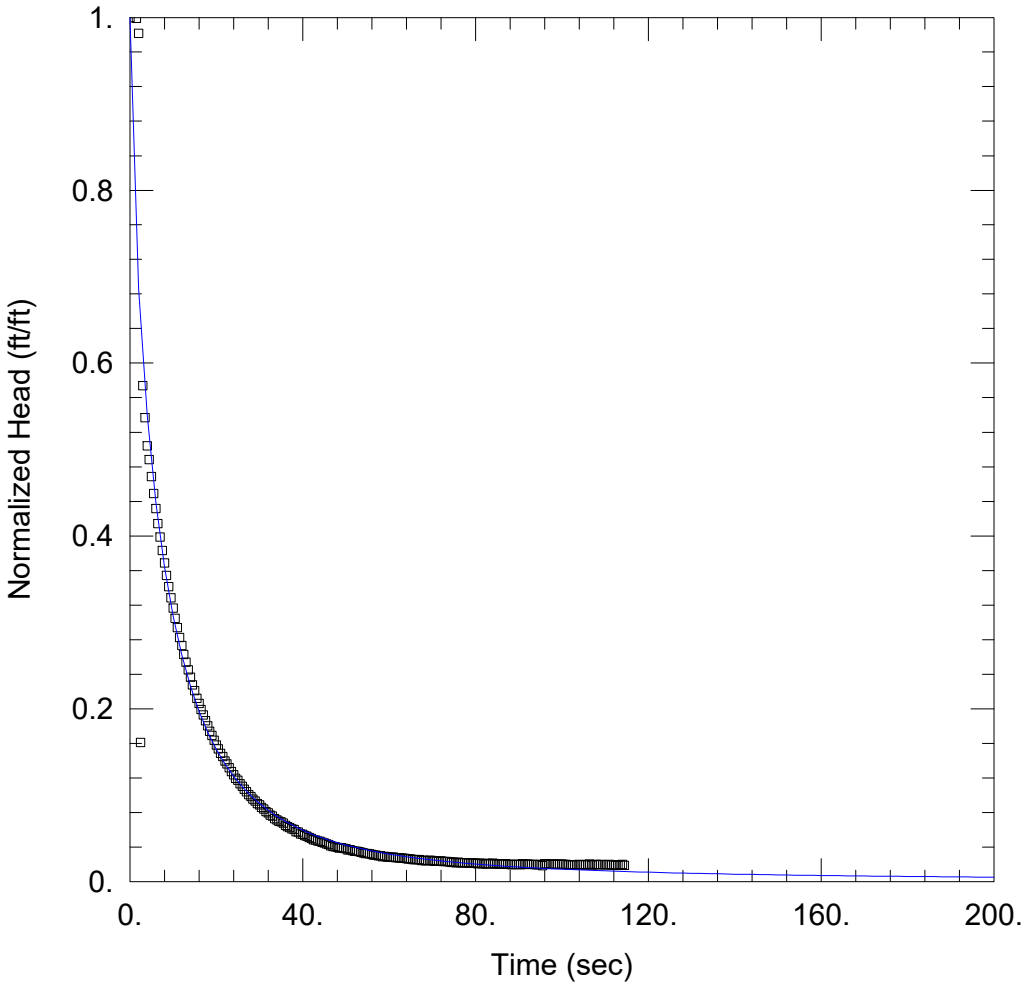
Parameter Correlations

	Kr	Ss
Kr	1.00	-0.93
Ss	-0.93	1.00

Residual Statistics

for weighted residuals

Sum of Squares	38.15 ft^2
Variance	0.002907 ft^2
Std. Deviation	0.05391 ft
Mean	0.003563 ft
No. of Residuals	13127
No. of Estimates	2



MW-119 FALLING HEAD 01

Data Set: Z:\...\LIMW-119 Falling Head 01.aqt
Date: 10/07/25 Time: 10:00:46

CHRISTOPHER J. HOGLUND
Registration for Professional Geologists
Kentucky Board of
269814
11/13/2025
Registered Professional Geologist

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-119
Test Well: MW-119
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 36.53 ft

WELL DATA (MW-119)

Initial Displacement: 2.58 ft
Total Well Penetration Depth: 36.53 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 36.53 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.002344 cm/sec
Kz/Kr = 1.
Ss = 0.0001668 ft^{-1}

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-119 Falling Head 01
Date: 10/07/25
Time: 10:01:11

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-119
Test Date: 9/18/25
Test Well: MW-119

AQUIFER DATA

Saturated Thickness: 36.53 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-119

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.58 ft
Static Water Column Height: 36.53 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 36.53 ft

No. of Observations: 227

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.5	2.578	58.5	0.074
2.	2.533	59.	0.075
2.5	0.415	59.5	0.073
3.	1.481	60.	0.073
3.5	1.385	60.5	0.072
4.	1.301	61.	0.073
4.5	1.26	61.5	0.071
5.	1.209	62.	0.071
5.5	1.159	62.5	0.07
6.	1.114	63.	0.07
6.5	1.069	63.5	0.069
7.	1.029	64.	0.068
7.5	0.989	64.5	0.067
8.	0.951	65.	0.067
8.5	0.914	65.5	0.065
9.	0.881	66.	0.065
9.5	0.847	66.5	0.065
10.	0.817	67.	0.065
10.5	0.786	67.5	0.063
11.	0.758	68.	0.064
11.5	0.729	68.5	0.062
12.	0.705	69.	0.063
12.5	0.678	69.5	0.064
13.	0.655	70.	0.063
13.5	0.632	70.5	0.061
14.	0.61	71.	0.061
14.5	0.587	71.5	0.061
15.	0.57	72.	0.062
15.5	0.547	72.5	0.06
16.	0.532	73.	0.06
16.5	0.514	73.5	0.06

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
17.	0.497	74.	0.059
17.5	0.48	74.5	0.057
18.	0.465	75.	0.058
18.5	0.449	75.5	0.056
19.	0.436	76.	0.058
19.5	0.422	76.5	0.056
20.	0.408	77.	0.056
20.5	0.396	77.5	0.056
21.	0.383	78.	0.056
21.5	0.373	78.5	0.055
22.	0.36	79.	0.056
22.5	0.351	79.5	0.055
23.	0.34	80.	0.055
23.5	0.328	80.5	0.053
24.	0.319	81.	0.055
24.5	0.308	81.5	0.053
25.	0.302	82.	0.054
25.5	0.292	82.5	0.052
26.	0.284	83.	0.054
26.5	0.276	83.5	0.053
27.	0.268	84.	0.055
27.5	0.259	84.5	0.052
28.	0.254	85.	0.053
28.5	0.246	85.5	0.052
29.	0.24	86.	0.052
29.5	0.233	86.5	0.052
30.	0.229	87.	0.053
30.5	0.221	87.5	0.051
31.	0.216	88.	0.051
31.5	0.209	88.5	0.05
32.	0.205	89.	0.051
32.5	0.198	89.5	0.051
33.	0.195	90.	0.051
33.5	0.188	90.5	0.05
34.	0.184	91.	0.053
34.5	0.18	91.5	0.051
35.	0.178	92.	0.052
35.5	0.174	92.5	0.051
36.	0.168	93.	0.051
36.5	0.164	93.5	0.051
37.	0.161	94.	0.05
37.5	0.157	94.5	0.05
38.	0.155	95.	0.051
38.5	0.149	95.5	0.047
39.	0.148	96.	0.053
39.5	0.142	96.5	0.052
40.	0.141	97.	0.052
40.5	0.137	97.5	0.051
41.	0.135	98.	0.052
41.5	0.131	98.5	0.051
42.	0.129	99.	0.052
42.5	0.125	99.5	0.051
43.	0.124	100.	0.052
43.5	0.121	100.5	0.051
44.	0.12	101.	0.051
44.5	0.117	101.5	0.049
45.	0.115	102.	0.05
45.5	0.112	102.5	0.049
46.	0.11	103.	0.05
46.5	0.107	103.5	0.05
47.	0.105	104.	0.051
47.5	0.104	104.5	0.05
48.	0.102	105.	0.05
48.5	0.1	105.5	0.049
49.	0.101	106.	0.051
49.5	0.099	106.5	0.052
50.	0.098	107.	0.049

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
50.5	0.094	107.5	0.05
51.	0.095	108.	0.051
51.5	0.092	108.5	0.05
52.	0.09	109.	0.051
52.5	0.09	109.5	0.05
53.	0.089	110.	0.05
53.5	0.087	110.5	0.05
54.	0.086	111.	0.051
54.5	0.084	111.5	0.049
55.	0.084	112.	0.05
55.5	0.083	112.5	0.048
56.	0.081	113.	0.048
56.5	0.079	113.5	0.05
57.	0.079	114.	0.051
57.5	0.077	114.5	0.048
58.	0.077		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.002344	cm/sec
Ss	0.0001668	ft^{-1}
Kz/Kr	1.	

T = K*b = 2.61 cm²/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	0.002344	0.0001226	+/- 0.0002417	19.12	cm/sec
Ss	0.0001668	4.915E-5	+/- 9.687E-5	3.394	ft^{-1}
Kz/Kr	1.	not estimated			

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 2.61 cm²/sec

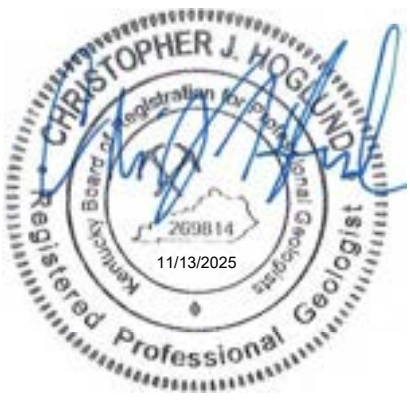
Parameter Correlations

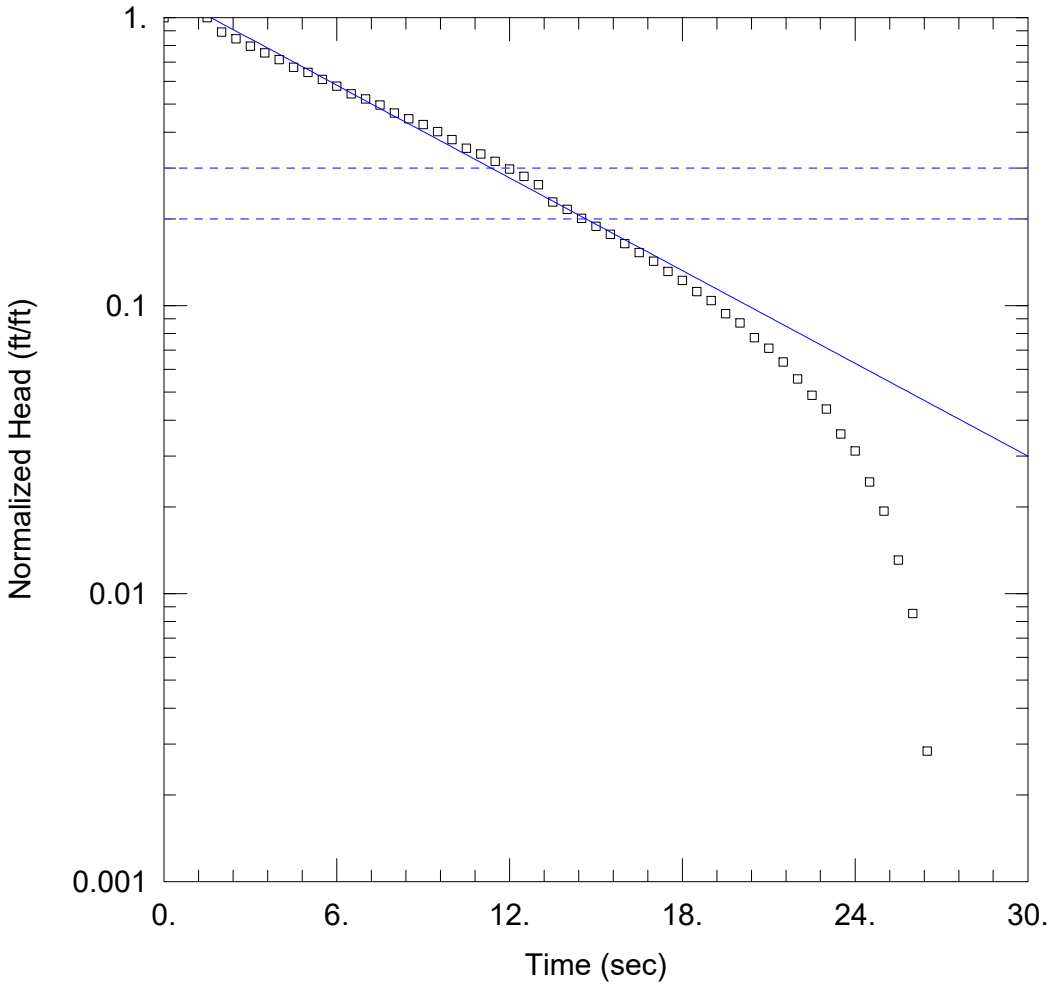
	Kr	Ss
Kr	1.00	-0.88
Ss	-0.88	1.00

Residual Statistics

for weighted residuals

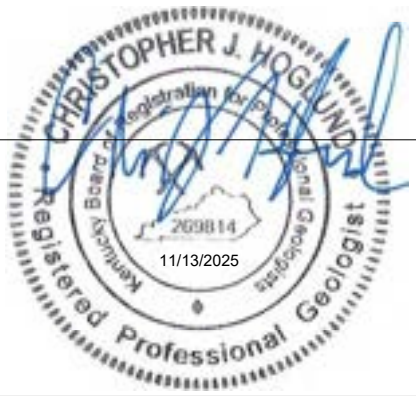
Sum of Squares . . . . . 2.657 ft^2
Variance . . . . . 0.01181 ft^2
Std. Deviation . . . . . 0.1087 ft
Mean . . . . . 0.002079 ft
No. of Residuals 227
No. of Estimates 2





MW-119 RISING HEAD 01

Data Set: Z:\...\LIMW-119 Rising Head 01.aqt
Date: 10/07/25 Time: 10:03:55



PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-119
Test Well: MW-119
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 36.53 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-119)

Initial Displacement: 1.761 ft
Total Well Penetration Depth: 36.53 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 36.53 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.003527 cm/sec
y0 = 2.152 ft

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-119 Rising Head 01
Date: 10/07/25
Time: 10:04:22

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-119
Test Date: 9/18/25
Test Well: MW-119

AQUIFER DATA

Saturated Thickness: 36.53 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-119

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.761 ft
Static Water Column Height: 36.53 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 36.53 ft

No. of Observations: 51

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.5	1.761	14.5	0.354
2.	1.569	15.	0.332
2.5	1.486	15.5	0.311
3.	1.402	16.	0.289
3.5	1.329	16.5	0.269
4.	1.259	17.	0.251
4.5	1.184	17.5	0.231
5.	1.135	18.	0.215
5.5	1.074	18.5	0.197
6.	1.017	19.	0.183
6.5	0.957	19.5	0.165
7.	0.918	20.	0.153
7.5	0.874	20.5	0.136
8.	0.82	21.	0.125
8.5	0.783	21.5	0.112
9.	0.749	22.	0.098
9.5	0.707	22.5	0.086
10.	0.664	23.	0.077
10.5	0.619	23.5	0.063
11.	0.592	24.	0.055
11.5	0.558	24.5	0.043
12.	0.525	25.	0.034
12.5	0.495	25.5	0.023
13.	0.463	26.	0.015
13.5	0.403	26.5	0.005
14.	0.38		

SOLUTION

Slug Test
Aquifer Model: Unconfined

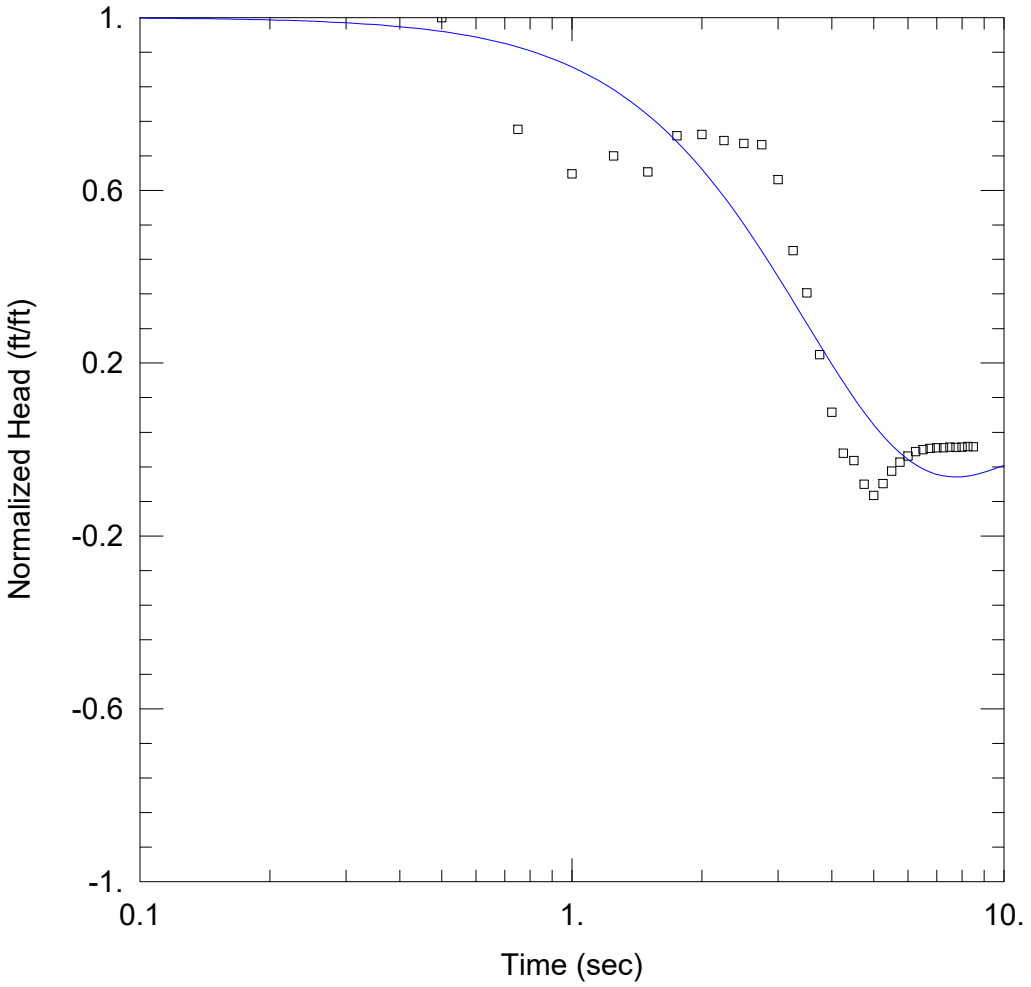
Solution Method: Bouwer-Rice
ln(Re/rw): 3.596

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.003527	cm/sec
y0	2.152	ft

T = K*b = 3.927 cm²/sec



MW-120 RISING HEAD 01

Data Set: Z:\...\MW-120 Rising Head 01.aqt
Date: 10/08/25 Time: 15:07:36

CHRISTOPHER J. HOGLUND
Kentucky Board of Registration for Professional Geologists
269814
11/13/2025
Registered Professional Geologist

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-120
Test Well: MW-120
Test Date: 9/18/25

AQUIFER DATA

Saturated Thickness: 11.24 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-120)

Initial Displacement: 1.225 ft
Total Well Penetration Depth: 11.24 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 11.24 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.01428 cm/sec
Le = 109.9 ft

Data Set: Z:\Clients\ENS\BigRiversEC\188763_WilsonMWinstal\Studies\Site_Invest\MW Completion Report\Slug T
Title: MW-120 Rising Head 01
Date: 10/08/25
Time: 15:08:45

PROJECT INFORMATION

Company: BMCD
Project: 176954
Location: MW-120
Test Date: 9/18/25
Test Well: MW-120

AQUIFER DATA

Saturated Thickness: 11.24 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-120

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.225 ft
Static Water Column Height: 11.24 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 11.24 ft

No. of Observations: 33

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.5	1.225	4.75	-0.098
0.75	0.908	5.	-0.13
1.	0.782	5.25	-0.097
1.25	0.833	5.5	-0.061
1.5	0.787	5.75	-0.036
1.75	0.89	6.	-0.019
2.	0.893	6.25	-0.006
2.25	0.876	6.5	0.
2.5	0.868	6.75	0.003
2.75	0.864	7.	0.005
3.	0.765	7.25	0.005
3.25	0.564	7.5	0.007
3.5	0.444	7.75	0.006
3.75	0.269	8.	0.007
4.	0.106	8.25	0.009
4.25	-0.01	8.5	0.008
4.5	-0.031		

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.2282

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.01428	cm/sec

Le	109.9	ft

T = K*b = 4.893 cm²/sec
Le = 109.9 ft
Solution is critically damped when C(D) = 2.

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	0.01428	0.0009502	+/- 0.001937	15.03	cm/sec
Le	109.9	17.47	+/- 35.61	6.29	ft

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = K*b = 4.893 cm²/sec
Le = 109.9 ft
Solution is critically damped when C(D) = 2.

Parameter Correlations

	K	Le
K	1.00	0.08
Le	0.08	1.00

Residual Statistics

for weighted residuals

Sum of Squares	0.7427 ft^2
Variance	0.02396 ft^2
Std. Deviation	0.1548 ft
Mean	0.001125 ft
No. of Residuals	33
No. of Estimates	2

BURNS
McDONNELL

Appendix B – Field Sampling Forms

Big Rivers
ELECTRIC CORPORATION

201 Third Street
P.O. Box 24
Henderson, KY 42419-0024
270-827-2561
www.bigrivers.com

Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-1	37.48	17.75	19.73	4.28.25	1355

Site Location:	AKGWA#	Casing Diameter ■4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8002-9621		443.89	426.14	13.22	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog ■ Clear □Partly Cloudy □ Windy Temp. 82 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
~~1330~~	0	17.75	100	0	17.68	3.65	1.76	6.31	-18	22.6
1335	5	~~17.66~~ 17.75	100	0.5	17.66	3.62	0.55	6.14	-10	38.1
1340	10	17.75	100	1.0	17.65	3.61	0.27	6.11	-10	61.5
1345	15	17.75	100	1.5	17.72	3.58	0.14	6.08	-8	52.6
1350	20	17.75	100	2.0	17.70	3.53	0.03	6.05	-6	49.1
1355	25	17.75	100	2.5	17.68	3.57	0.00	6.01	-4	44.8
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1355	17.75	Clear	none	17.68	3.57	0.00	6.01	-4	44.8

Big Rivers ELECTRIC CORPORATION

201 Third Street
P.O. Box 24
Henderson, KY 42419-0024
270-827-2561
www.bigrivers.com

Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-2**	**37.46**	16.90	20.56	4/29/25	1335

Site Location:	AKGWA#	Casing Diameter ☒4" ☐2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) **417.11**	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO#
Ohio Co, KY	**8002-9622**			400.21	13.78	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☒ Partly Cloudy ☒ Windy Temp. 75 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1305	0	16.90	100	0	21.21	0.865	2.46	6.82	-120	37.9
1310	5	17.57	100	0.5	20.84	0.794	1.11	6.78	-105	34.4
1315	10	17.71	100	1.0	20.70	0.760	0.79	6.76	-90	34.6
1320	15	18.01	100	1.5	20.54	0.749	0.55	6.73	-67	33.6
1325	20	18.24	100	2.0	20.53	0.739	0.51	6.77	-67	33.0
1330	25	18.45	100	2.5	20.41	0.740	0.49	6.77	-67	31.9
1335	30	18.51	100	3.0	20.44	0.742	0.49	6.77	-67	31.7
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☒	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☒ Yes ☐ No	☒ Yes ☐ No	Filtered: ☐ Yes ☒ No	Split Sample ☐ Yes ☒ No With:	Semi-Annual ☒

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1335	18.51	Clear	None	20.44	0.742	0.49	6.77	-67	31.7

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-3	37.45	22.88	14.57	4.29.25	1220

Site Location:	AKGWA#	Casing Diameter ■4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8002-9623		411.12	388.24	9.7	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 83 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1120	0	22.88	100	0	20.59	1.96	4.06	6.63	~~127~~ 122	250
1125	5	22.88	100	0.5	21.99	1.95	1.43	6.60	95	422
1130	10	22.88	100	1.0	22.04	1.96	1.02	6.61	94	728
1135	15	22.88	100	1.5	21.98	1.96	0.91	6.60	97	747
1140	20	22.88	100	2.0	21.37	1.95	0.68	6.59	102	804
1145	25	22.88	100	2.5	21.26	1.96	0.54	6.58	101	582
1150	30	22.88	100	3.0	21.07	1.96	0.48	6.59	93	494
1155	35	22.88	100	3.5	20.96	1.96	0.39	6.61	86	528
1200	40	22.88	100	4.0	21.08	1.96	0.36	6.62	82	651
1205	45	22.88	100	4.5	21.00	1.96	0.30	6.62	81	595
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	■ Duplicated #2 Collected Time: 1250
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-3**	**37.45**			4.29.25	
Site Location:	**AKGWA#**	**Casing Diameter** □4" □2" Conversion fact. 4"-0.67 2"-0.16	**Measuring Point (ft.)** **411.12**	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO #**
Ohio Co, KY	**8002-9623**					

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1210	50	22.88	100	5.0	21.18	1.96	0.27	6.61	75	533
1215	55	22.88	100	5.5	21.20	1.96	0.22	6.61	68	405
1220	60	22.88	100	6.0	21.20	1.97	0.20	6.61	62	362
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample □ Yes □ No With:	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1220	22.88	brown	none	21.20	1.97	0.20	6.61	62	362

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Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-4**	**32.53**	21.25	11.28	4/29/25	1025

Site Location:	AKGWA#	Casing Diameter ☒4" ☐2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	**8002-9624**		**408.82**	387.57	7.56	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☒ Partly Cloudy ☒ Windy Temp. 75 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0955	0	21.25	100	0	20.47	3.30	0.48	6.45	32	10.2
1000	5	21.25	100	0.5	20.30	3.34	0.30	6.42	24	22.9
1005	10	21.25	100	1.0	20.48	3.36	0.27	6.44	17	37.7
1010	15	21.25	100	1.5	20.68	3.35	0.23	6.45	15	39.9
1015	20	21.25	100	2.0	20.70	3.35	0.20	6.45	13	28.9
1020	25	21.25	100	2.5	20.53	3.35	0.20	6.45	13	26.4
1025	30	21.25	100	3.0	20.60	3.35	0.18	6.44	12	26.9
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☒	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☒ Yes ☐ No	☒ Yes ☐ No	Filtered: ☐ Yes ☒ No	Split Sample ☐ Yes ☐ No With:	Semi-Annual ☒

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1025	21.25	Clear	None	20.60	3.35	0.18	6.44	12	26.9

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Auto cal
4.00 pH
4.51 mS/cm
0.0 NTU
9.03 mg/L DO

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Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-5	75.0	48.72	26.28	4.29.25	0735

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8005-3477		469.14	420.42	4.20	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■ Partly Cloudy □ Windy Temp. 71 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0655	0	48.72	100	0	18.18	4.22	10.48	6.62	86	25.2
0700	5	48.72	100	0.5	17.93	4.25	8.07	6.46	-23	8.1
0705	10	48.72	100	1.0	17.72	4.33	7.26	6.41	-29	2.6
0710	15	48.72	100	1.5	17.65	4.37	6.53	6.39	-32	0.8
0715	20	48.80	100	2.0	17.55	4.37	6.08	6.39	-33	14.5
0720	25	48.80	100	2.5	17.61	4.36	5.57	6.39	-35	28.6
0725	30	48.80	100	3.0	17.76	4.34	5.27	6.39	-36	32.7
0730	35	48.80	100	3.5	18.05	4.32	4.91	6.39	-36	29.6
0735	40	48.80	100	4.0	18.55	4.32	4.71	6.40	-37	28.4
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time: MS/MSD
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0735	48.80	Clear	none	18.55	4.32	4.71	6.40	-37	28.4

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Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-6	53.50	38.08	14.82	4.29.25	1430
Site Location:	**AKGWA#**	**Casing Diameter** □4" ■2" Conversion fact. 4"-0.67 2"-0.16	**Measuring Point (ft.)** 433.06	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO #**
Ohio Co, KY	8005-3476			394.38	2.37	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 81 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1330	0	38.08	100	0	20.08	3.18	7.06	6.47	-19	658
1335	5	38.08	100	0.5	20.00	3.22	6.36	6.43	-20	508
1340	10	38.08	100	1.0	18.85	3.25	5.88	6.42	-23	348
1345	15	38.08	100	1.5	18.52	3.25	5.27	6.42	-26	167
1350	20	38.08	100	2.0	18.16	3.25	5.00	6.42	-26	95.1
1355	25	38.08	100	2.5	18.09	3.25	5.14	6.44	-26	50.3
1400	30	38.08	100	3.0	18.17	3.25	4.55	6.43	-27	40.7
1405	35	38.08	100	3.5	18.02	3.24	4.19	6.44	-28	19.1
1410	40	38.08	100	4.0	19.58	3.24	3.86	6.44	-29	15.6
1415	45	38.08	100	4.5	20.23	3.24	3.66	6.43	-29	12.5
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-6**	**53.50**				

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	**8005-3476**		**433.06**			

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1420	50	38.08	~~5~~ 100	5.0	20.87	3.25	3.52	6.43	-30	8.9
1425	55	38.08	100	5.5	20.88	3.26	3.36	6.42	-30	5.6
1430	60	38.08	100	6.0	21.22	3.26	3.27	6.40	-29	4.1
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample □ Yes □ No With:	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1430	38.08	Clear	none	21.22	3.26	3.27	6.40	-29	4.1

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Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-7	50.00	37.88	12.12	4/29/25	1235

Site Location:	AKGWA#	Casing Diameter ☐4" ☑2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8005-3479		426.14	388.26	1.94	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☑ Windy Temp. 75 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1135	0	37.88	100	0	20.22	3.26	1.58	6.65	-26	478.0
1140	5	37.91	100	0.5	20.91	3.30	0.92	6.49	-28	281.0
1145	10	37.93	100	1.0	21.06	3.28	0.50	6.51	-32	191.0
1150	15	37.93	100	1.5	20.82	3.29	0.36	6.53	-34	125.0
1155	20	37.93	100	2.0	20.78	3.30	0.30	6.53	-35	102.0
1200	25	37.93	100	2.5	20.88	3.30	0.27	6.53	-36	83.4
1205	30	37.93	100	3.0	20.83	3.31	0.27	6.53	-37	60.0
1210	35	37.93	100	3.5	20.99	3.30	0.22	6.53	-37	49.7
1215	40	37.93	100	4.0	21.26	3.31	0.22	6.53	-38	45.7
1220	45	37.93	100	4.5	21.30	3.32	0.21	6.52	-37	35.2
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☑ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1235	37.93	Clear	None	21.80	3.32	0.19	6.54	-37	27.5

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-7**	**50.00**			4/29/25	1235

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) **426.14**	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	**8005-3479**					

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1225	50	37.93	100	5.0	21.60	3.32	0.21	6.52	-38	30.2
1230	55	37.93	100	5.5	21.76	3.31	0.17	6.54	-37	29.8
1235	60	37.93	100	6.0	21.80	3.32	0.19	6.54	-37	27.5
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample □ Yes □ No With:	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

3.96 pH
4.98 ms/cm
0.0 NTU
10.20 mg/L DO
111.2% DO

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Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-8	63.46	39.32	24.17	4·28 2025	13:35
Site Location:	**AKGWA#**	**Casing Diameter** □4" ■2" Conversion fact. 4"-0.67 2"-0.16	**Measuring Point (ft.)**	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO #**
Ohio Co, KY	8005-3475		471.60	432.28	3.86	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog ■ Clear □ Partly Cloudy □ Windy Temp. 82° (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
13:10	0	39.32	100ml	0	20.40	2.01	6.18	6.77	-62	71.4
13:15	5	39.32	100ml	.5	19.76	1.98	.95	6.65	-59	76.5
13:20	10	39.32	100ml	1	19.65	1.97	.68	6.62	-58	78.7
13:25	15	39.32	100ml	1.5	19.43	1.96	.46	6.59	-58	74.4
13:30	20	39.32	100ml	2	19.38	1.96	.36	6.58	-58	76.1
13:35	25	39.32	100ml	2.5	19.41	1.96	.32	6.58	-58	74.7
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
13:35	39.32	clear	none	19.41	1.96	.32	6.58	-58	74.7

3.92 pH
4.51 mS/cm
0.0 NTU
9.52 mg/l DO

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-10	22.42	12.32	10.1	4/29/25	0805

Site Location:	AKGWA#	Casing Diameter ☐4" ☑2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8005-3478		398.91	386.59	1.62	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☑ Windy Temp. 75 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0705	0	12.32	100	0	17.72	3.47	0.56	6.06	-19	13.7
0710	5	14.17	100	0.5	17.66	3.46	0.32	6.03	-19	13.0
0715	10	14.61	100	1.0	17.62	3.40	0.22	5.97	-8	15.5
0720	15	14.98	100	1.5	17.63	3.37	0.19	5.93	1	12.6
0725	20	15.28	100	2.0	17.65	3.36	0.18	5.93	5	11.5
0730	25	15.31	100	2.5	18.31	3.35	0.17	5.93	7	9.6
0735	30	15.31	100	3.0	18.43	3.37	0.19	5.93	5	8.1
0740	35	15.31	100	3.5	18.44	3.37	0.19	5.94	3	9.2
0745	40	15.31	100	4.0	19.48	3.39	0.18	5.95	1	8.0
0750	45	15.31	100	4.5	19.43	3.40	0.18	5.95	2	9.0
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☑ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0805	15.13	Clear	None	~~19.43~~ ~~75~~ DM 20.05	3.43	0.17	5.98	-8	8.6

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-10**	**22.42**			4/29/25	

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) **398.91**	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	**8005-3478**					

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0755	50	15.36	100	5.0	19.74	3.41	0.17	5.96	-5	7.9
0800	55	15.17	100	5.5	20.03	3.43	0.16	5.97	-7	8.4
0805	60	15.13	100	6.0	20.05	3.43	0.17	5.98	-8	8.6
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample □ Yes □ No With:	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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CCR GROUNDWATER FIELD LOG **WILSON LANDFILL**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-4D**	**93.5**	22.28	71.22	4.28.2025	
Site Location:	**AKGWA#**	**Casing Diameter** □4" ■2" Conversion fact. 4"-0.67 2"-0.16	**Measuring Point (ft.)** **410.02**	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO #**
Ohio Co, KY	8007-4811			387.74	11.39	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog ■ Clear □ Partly Cloudy □ Windy Temp. 68 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
9:20	0	22.28	100ml	0	18.01	4.76	17.6	6.53	-24	138
9:25	5	22.28	100ml	.5	18.19	4.58	6.2	6.52	-39	235
9:30	10	22.28	100ml	1	19.11	4.40	3.2	6.47	-40	201
9:35	15	22.28	100ml	1.5	19.08	4.45	4.5	6.47	-42	183
9:40	20	22.28	100ml	2	17.86	4.28	1.7	6.42	-43	82.9
9:45	25	22.28	100ml	2.5	18.34	4.22	1.5	6.40	-44	105
9:50	30	22.28	100ml	3	18.37	4.22	1.8	6.47	-43	86.9
9:55	35	22.28	100ml	3.5	18.35	4.05	0.7	6.34	-40	52.2
10:00	40	22.28	100ml	4	18.66	3.89	.09	6.31	-39	32.5
10:05	45	22.28	100ml	4.5	18.69	3.84	.11	6.29	-37	25.8
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
10:20	22.28	clear	none	19.11	3.77	.39	6.30	-34	20.7

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CCR GROUNDWATER FIELD LOG **WILSON LANDFILL**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-4D**	**93.5**				

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) **410.02**	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-4811					

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
10:10	50	22.28	100ml	5	18.92	3.79	.23	6.27	-35	23.7
10:15	55	22.28	100ml	5.5	18.93	3.78	.31	6.29	-34	22.8
10:20	60	22.28	100ml	6	19.11	3.77	.39	6.30	-34	20.7
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample □ Yes □ No With:	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-10D	76.95	12.30	64.65	4/28/25	1230
Site Location:	**AKGWA#**	**Casing Diameter**	**Measuring Point (ft.)**	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO #**
Ohio Co, KY	8007-8616	☐4" ☑2" Conversion fact. 4"-0.67 2"-0.16	399.00	386.7	10.34	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☐ Windy Temp. 73 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1155	0	12.30	100	0	19.71	3.20	3.15	6.71	-49	12.4
1200	5	12.28	100	0.5	19.41	3.17	1.97	6.47	-51	11.6
1205	10	12.30	100	1.0	20.02	3.13	1.66	6.37	-49	3.3
1210	15	12.30	100	1.5	19.81	3.13	1.54	6.34	-49	3.3
1215	20	12.30	100	2.0	19.79	3.11	1.46	6.33	-49	4.2
1220	25	12.30	100	2.5	19.91	3.11	1.51	6.33	-49	2.3
1225	30	12.30	100	3.0	19.92	3.12	1.52	6.33	-49	2.8
1230	35	12.30	100	3.5	19.88	3.12	1.54	6.32	-49	2.4
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☑ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1230	12.30	Clear	None	19.88	3.12	1.54	6.32	-49	2.4

Auto Cal
pH 3.99
4.91 mS/cm
0.0 NTU
9.53 mg/L DO

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CCR GROUNDWATER FIELD LOG — **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-102**	**36.5**	13.80	22.7	4.28.25	0855

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) **399.71**	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO#
Ohio Co, KY	8007-2995			385.91	3.03	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog ■ Clear □ Partly Cloudy □ Windy Temp. 60 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0805	0	13.80	100	0	15.51	1.30	4.29	8.09	-118	53.6
0810	5	13.80	100	0.5	15.49	1.31	2.22	6.97	-67	37.7
0815	10	13.80	100	1.0	15.52	1.31	1.74	6.77	-60	38.7
0820	15	19.00	100	1.5	15.57	1.31	1.50	6.74	-59	34.2
0825	20	19.89	100	2.0	15.64	1.32	1.24	6.74	-60	31.1
0830	25	19.89	100	2.5	15.69	1.31	1.15	6.75	-59	27.1
0835	30	19.89	100	3.0	15.75	1.31	1.07	6.75	-59	24.4
0840	35	21.74	100	3.5	15.82	1.31	0.98	6.76	-59	28.6
0845	40	22.21	100	4.0	15.86	1.31	0.92	6.76	-59	21.5
0850	45	22.21	100	4.5	15.93	1.31	0.87	6.75	-58	20.3
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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CCR GROUNDWATER FIELD LOG **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-102**	**36.5**			4.28.25	0855

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO#
Ohio Co, KY	8007-2995		**399.71**			

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0855	50	22.21	100	5.0	15.98	1.30	0.82	6.75	-58	19.4
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample With: □ Yes □ No	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0855	22.21	Clear	none	15.98	1.30	0.82	6.75	-58	19.4

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CCR GROUNDWATER FIELD LOG — **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-104**	**40.5**	6.15	34.35	4/28/25	1025
Site Location:	**AKGWA#**	**Casing Diameter** ☐4" ☑2" Conversion fact. 4"-0.67 2"-0.16	**Measuring Point (ft.) 392.87**	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO #**
Ohio Co, KY	**8007-2994**			386.72	5.50	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☐ Windy Temp. 60 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0925	0	6.15	100	0	18.20	2.36	0.38	6.61	-50	54.3
0930	5	8.90	100	0.5	18.18	2.35	0.26	6.62	-50	49.0
0935	10	10.13	100	1.0	17.99	2.34	0.16	6.60	-51	23.1
0940	15	10.55	100	1.5	18.47	2.21	0.32	6.67	-48	15.7
0945	20	10.83	100	2.0	18.51	2.19	0.32	6.65	-48	12.0
0950	25	10.97	100	2.5	19.19	2.13	0.55	6.67	-44	17.8
0955	30	10.76 ↑	100	3.0	19.38	2.13	0.62	6.69	-45	15.1
1000	35	10.41	100	3.5	19.50	2.15	0.70	6.67	-45	7.5
1005	40	10.35	100	4.0	19.77	2.17	6.68	6.67	-46	8.9
1010	45	10.29	100	4.5	19.80	2.19	0.64	6.65	-47	12.6
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☑ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1025	10.19	Clear	None	19.99	2.19	0.56	6.65	-46	4.3

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CCR GROUNDWATER FIELD LOG **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-104**	**40.5**				

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	**8007-2994**		**392.87**			

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1015	50	10.25	100	5.0	19.81	2.20	0.60	6.67	-47	4.3
1020	55	10.21	100	5.5	19.87	2.20	0.58	6.65	-46	3.7
1025	60	10.19	100	6.0	19.99	2.19	0.56	6.65	-46	4.3
For three (3) consecutive Readings		Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable	

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample With: □ Yes □ No	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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CCR GROUNDWATER FIELD LOG — **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-105R**	**37.87**	~~7.18~~ 11.75	26.12	4-28-25	1015

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) **397.13**	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	**8007-1175**			385.38	4.18	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog ■ Clear □Partly Cloudy □ Windy Temp. 72 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0940	0	11.75	100	0	15.75	1.40	9.05	7.61	-62	66.8
0945	5	13.39	100	0.5	15.56	1.40	2.17	7.06	-28	53.6
0950	10	14.54	100	1.0	15.59	1.39	1.47	6.91	-19	50.2
0955	15	15.88	100	1.5	15.58	1.39	1.05	6.84	-15	40.9
1000	20	17.16	100	2.0	15.62	1.39	0.88	6.82	-13	35.2
1005	25	18.38	100	2.5	15.68	1.39	0.74	6.80	-12	33.6
1010	30	19.02	100	3.0	15.65	1.38	0.68	6.79	-13	33.3
1015	35	19.95	100	3.5	15.75	1.39	0.61	6.78	-14	34.0
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1015	19.95	Clear	none	15.75	1.39	0.61	6.78	-14	34.0

3.96 pH
4.98 mS/cm
0.0 NTU
10.20 mg/L DO
111.2% DO

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CCR GROUNDWATER FIELD LOG — **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-110**	**39.5**	8.16	31.34	4.28.2025	8:10 AM

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-2996		**393.54**	385.38	5.01	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog ■ Clear □ Partly Cloudy □ Windy Temp. 52° (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
7:10	0	8.21	100ml	0	15.62	.603	11.3	5.78	-7	159
7:15	5	8.21	100ml	.5	15.50	.611	8.4	5.65	1	104
7:20	10	8.21	100ml	1	15.52	.600	6.8	5.74	-3	153
7:25	15	8.21	100ml	1.5	15.61	.591	5.2	5.76	-4	161
7:30	20	8.21	100ml	2	15.71	.583	4.7	5.78	-3	1000+
7:35	25	8.22	100ml	2.5	15.70	.571	5.8	5.83	0	373
7:40	30	8.22	100ml	3	15.77	.544	4.2	5.80	-3	92.5
7:45	35	8.22	100ml	3.5	15.80	.529	3.5	5.80	-4	78.9
7:50	40	8.22	100ml	4	15.85	.521	3.0	5.79	-4	63.2
7:55	45	8.22	100ml	4.5	15.90	.511	2.7	5.79	-3	61.3
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time: 8:27
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes □ No With:	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
8:10	8.22	Cloudy	none	16.07	.493	3.0	5.77	-2	50.1

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CCR GROUNDWATER FIELD LOG **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-110**	**39.5**				

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) **393.54**	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-2996					

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
8:00	50	8.22	100ml	5	15.93	.505	2.6	5.78	-3	55.8
8:05	55	8.22	100ml	5.5	16.01	.497	2.5	5.79	-2	54.4
8:10	60	8.22	100ml	6	16.07	.493	3.0	5.77	-2	50.1
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample □ Yes □ No With:	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
8:10	8.22	cloudy	none	16.07	.493	3.0	5.77	-2	50.1

3.96 pH
4.98 ms/cm
0.0 NTU
10.20 mg/L DO
111.2% DO

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-111	98.31	78.49	19.82	4.28 2025	12:15

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-8615		466.06	387.57	3.17	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog ■ Clear □ Partly Cloudy □ Windy Temp. 76 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
11:40	0	78.49	100ml	0	20.66	3.63	3.24	6.68	-6	21
11:45	5	78.49	100ml	.5	20.26	3.70	2.14	6.62	-11	20.9
11:50	10	78.49	100ml	1	20.28	3.68	1.23	6.58	-15	22.3
11:55	15	78.49	100ml	1.5	20.36	3.69	0.82	6.55	-16	20.1
12:00	20	78.49	100ml	2	20.24	3.67	0.57	6.53	-17	16.5
12:05	25	78.49	100ml	2.5	20.44	3.66	0.48	6.51	-16	13.1
12:10	30	78.49	100ml	3	20.41	3.67	.46	6.52	-16	12.9
12:15	35	78.49	100ml	3.5	20.39	3.66	.41	6.51	-17	12.4
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
12:15	78.49	clear	none	20.39	3.66	.41	6.51	-17	12.4

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-112	54.01	16.22	37.79	4.28.25	1230

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-8614		403.82	387.00	6.05	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog ■ Clear □ Partly Cloudy □ Windy Temp. 78 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1140	0	16.22	100	0	17.30	1.32	4.45	7.93	-60	1.8
1145	5	16.22	100	0.5	16.58	1.27	2.92	7.34	-34	0.8
1150	10	16.22	100	1.0	16.31	1.24	1.88	6.94	-16	0.3
1155	15	16.22	100	1.5	16.26	1.24	1.41	6.85	-11	0.7
1200	20	16.22	100	2.0	16.34	1.23	1.22	6.84	-11	0.0
1205	25	16.22	100	2.5	16.45	1.23	1.07	6.82	-10	0.0
1210	30	16.22	100	3.0	16.42	1.22	0.97	6.80	-9	0.0
1215	35	16.22	100	3.5	16.46	1.21	0.91	6.07	-23	0.0
1220	40	16.22	100	4.0	16.59	1.22	0.84	6.86	-10	0.0
1225	45	16.22	100	4.5	16.57	1.21	0.79	6.80	-7	0.1
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-112	54.01			4/28/25	1230

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-8614		403.82			

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1230	50	16.22	100	5.0	16.56	1.21	0.76	6.79	-6	0.1
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☐	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
		☐ Yes ☐ No	☐ Yes ☐ No	Filtered: ☐ Yes ☐ No	Split Sample ☐ Yes ☒ No With:	Semi-Annual ☐

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1230	16.22	Clear	none	16.56	1.21	0.76	6.79	-6	0.1

Auto Cal
3.90 pH
4.98 mS/cm
0.0 NTU
9.99 mg/l DO
4/28/25 0519

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-113	57.93	21.00	36.93	4/28/25	0735

Site Location:	AKGWA#	Casing Diameter	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-1174	☐4" ☑2" Conversion fact. 4"-0.67 2"-0.16	411.61	390.61	5.91	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☐ Windy Temp. 60 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0715	0	21.00	100	0	17.26	2.14	0.59	6.36	-68	5.0
0720	5	24.88	100	0.5	17.24	2.11	0.32	6.37	-69	3.4
0725	10	25.45	100	1.0	17.26	2.10	0.29	6.36	-68	1.5
0730	15	26.10	100	1.5	17.29	2.09	0.28	6.37	-69	1.0
0735	20	26.63	100	2.0	17.31	2.09	0.27	6.36	-68	1.3 DM
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☑ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0735	26.63	Clear	None	17.31	2.09	0.27	6.36	-68	1.3 DM

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-114	50.32	11.87	38.45	4/28/25	1440

Site Location:	AKGWA#	Casing Diameter	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-8613	☐4" ☑2" Conversion fact. 4"-0.67 2"-0.16	404.18	392.31	6.15	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☑ Windy Temp. 82 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
~~1410~~ 1410	0	11.87	100	0	22.09	1.07	1.82	7.02	-30	18.5
1415	5	12.72	100	0.5	23.12	1.02	1.62	7.08	-52	17.4
1420	10	12.60	100	1.0	23.30	1.02	1.49	7.03	-58	8.7
1425	15	12.54	100	1.5	23.68	1.01	1.36	7.00	-62	5.5
1430	20	12.51	100	2.0	23.60	1.00	1.22	6.99	-65	2.6
1435	25	12.51	100	2.5	23.63	0.995	1.18	6.97	-67	3.1
1440	30	12.51	100	3.0	23.65	0.989	1.21	6.97	-67	3.7
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☑ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1440	12.51	Clear	None	23.65	0.989	1.21	6.97	-67	3.7

Cal 3.99 pH
4.95 mS/cm
0.0 NTU
10.72 mg/L DO
123.9% DO

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CCR GROUNDWATER FIELD LOG **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-105R	37.87	10.26	27.61	9.23.25	0735

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-1175		397.13	386.87	4.42	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■ Partly Cloudy □ Windy Temp. 66 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0700	0	10.26	100	0	17.60	1.31	2.01	6.50	-50	44.0
0705	5	10.26	100	0.5	18.30	1.30	1.04	6.55	-51	24.7
0710	10	10.26	100	1.0	18.34	1.29	0.56	6.58	-45	20.5
0715	15	10.26	100	1.5	18.27	1.28	0.22	6.60	-32	20.6
0720	20	10.26	100	2.0	18.12	1.26	0.03	6.61	-17	27.4
0725	25	10.26	100	2.5	18.05	1.25	0.15	6.68	-12	31.4
0730	30	10.26	100	3.0	18.03	1.25	0.07	6.65	-12	33.3
0735	35	10.26	100	3.5	18.03	1.25	0.01	6.63	-11	36.0
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0735	10.26	Clear	none	18.03	1.25	0.01	6.63	-11	36.0

3.99 pH
4.81 ms/cm
0.0 NTU
10.81 mg/L DO
123.9 % DO

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CCR GROUNDWATER FIELD LOG — **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-110**	**39.5**	10.03	29.47	9.23.2025	7:50

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-2996	**393.54**		383.51	4.71	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 67 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
6:55	0	10.03	100ml	0	18.43	.473	1.76	6.65	-39	120
7:00	5	10.03	100ml	.5	18.85	.467	1.01	6.68	-39	70
7:05	10	10.03	100ml	1	18.89	.461	.84	6.70	-41	181
7:10	15	10.03	100ml	1.5	18.76	.455	.76	6.74	-46	157
7:15	20	10.03	100ml	2	18.81	.450	1.02	6.76	-50	157
7:20	25	10.06	100ml	2.5	18.71	.447	.63	6.72	-51	141
7:25	30	10.06	100ml	3	18.60	.444	.55	6.75	-51	90.7
7:30	35	10.06	100ml	3.5	18.67	.443	.53	6.75	-53	75.7
7:35	40	10.06	100ml	4	18.60	.438	.53	6.77	-53	62.5
7:40	45	10.06	100ml	4.5	18.61	.438	.47	6.78	-54	61.3
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	■ Duplicated Collected Time: 8:07
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
7:50	10.06	clear	none	18.65	.437	.47	6.77	-55	61.6

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CCR GROUNDWATER FIELD LOG — **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-110	39.5	10.03	29.47	9·23·2025	7:50

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-2996		393.54	383.51	4.71	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 67 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
7:45	50	10.06	100ml	5	18.69	.436	.48	6.78	-55	63.1
7:50	55	10.06	100ml	5.5	18.65	.437	.47	6.77	-55	61.6
For three (3) consecutive Readings		Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable	

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	■ Duplicated Collected Time: 8:07
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample With: □ Yes ■ No	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
7:50	10.06	clear	none	18.65	.437	.47	6.77	-55	61.6

pH 3.96
mS/cm 4.91
NTU 0.0
mg/100 10.04
% DO 118.1

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-113	57.93	21.78	36.15	9/23/25	0750

Site Location:	AKGWA#	Casing Diameter □4" ☒2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-1174		411.61	389.83	5.78	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ☒ Partly Cloudy □ Windy Temp. 68 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0710	5	21.78	100	0.0	18.10	2.09	1.81	6.61	-87	9.4
0715	10	22.96	100	0.5	18.01	2.00	0.59	6.60	-107	5.9
0720	15	24.11	100	1.0	17.94	2.00	0.56	6.59	-107	6.1
0725	20	24.98	100	1.5	17.93	1.97	2.9	6.64	-116	8.8
0730	25	25.37	100	2.0	17.85	1.96	1.90	6.70	-122	17.8
0735	30	25.80	100	2.5	17.93	1.94	1.94	6.73	-124	25.1
0740	35	25.95	100	3.0	17.95	1.93	0.15	6.73	-124	34.9
0745	40	26.05	100	3.5	17.83	1.92	0.10	6.72	-121	35.5
0750	45	26.39	100	4.0	17.84	1.92	0.05	6.72	-122	36.1
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ☒	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☒ Yes □ No	☒ Yes □ No	Filtered: □ Yes ☒ No	Split Sample □ Yes □ No With:	Semi-Annual ☒

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0750	26.39	Clear	None	17.84	1.92	0.05	6.72	-122	36.1

3.99 pH
4.81 mS/cm
0.0 NTU
10.81 mg/L DO
123.9% DO

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-10D	76.95	13.92	63.03	9.23.2025	11:00

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-8616		399.00	385.08	10.08	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■ Partly Cloudy □ Windy Temp. 77 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
10:35	0	13.92	100ml	0	24.41	3.30	3.13	6.60	-1	25.9
10:40	5	13.92	100ml	.5	23.47	3.45	1.35	6.46	-40	13.4
10:45	10	13.92	100ml	1	25.24	3.57	.78	6.39	-48	7.8
10:50	15	13.92	100ml	1.5	27.18	3.76	.41	6.32	-54	0.0
10:55	20	13.92	100ml	2	28.12	3.77	.21	6.32	-54	0.2
11:00	25	13.92	100ml	2.5	28.11	3.77	.17	6.32	-54	0.2
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ■ / Casing PVC ■	Field Blank Collected Time:	Duplicated Collected Time:
good	good	yess	yes		□	□
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
11:00	13.92	clear	none	28.11	3.77	.17	6.32	-54	0.2

3.99 pH
4.81 mS/cm
0.0 NTU
10.81 mg/L DO
123.9% DO

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CCR GROUNDWATER FIELD LOG **WILSON LANDFILL**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-4D	93.5	24.78	68.72	9.23.2025	9:25

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) 410.02	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-4811			385.24	10.99	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 72 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
8:50	0	24.78	100ml	0	20.46	3.74	2.95	6.31	-29	77.1
8:55	5	24.78	100ml	.5	20.06	4.40	.59	6.36	-34	262
9:00	10	24.78	100ml	1.0	20.17	4.83	.11	6.36	-35	242
9:05	15	24.78	100ml	1.5	20.30	5.04	0	6.35	-37	145
9:10	20	24.78	100ml	2.0	20.26	5.09	0	6.34	-38	125
9:15	25	24.78	100ml	2.5	20.02	5.09	0	6.33	-38	107
9:20	30	24.78	100ml	3.0	19.90	5.09	0	6.34	-39	97.8
9:25	35	24.78	100ml	3.5	20.01	5.08	0	6.33	-39	99.3
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
9:25	24.78	clear	none	20.01	5.08	0	6.33	-39	99.3

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CCR GROUNDWATER FIELD LOG — **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-104	40.5	8.19	32.31	9.23.25	0930

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) 392.87	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-2994			384.08	5.17	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 70 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp. (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0830	0	8.19	100	0	18.38	2.28	5.60	6.55	-26	26.3
0835	5	8.19	100	.5	18.37	2.34	0.00	6.52	-33	16.1
0840	10	8.19	100	1.0	18.33	2.32	0.00	6.52	-33	20.4
0845	15	8.19	100	1.5	18.34	2.23	0.00	6.55	-29	22.5
0850	20	8.19	100	2.0	18.41	2.07	0.00	6.60	-26	30.2
0855	25	8.19	100	2.5	18.44	2.06	0.00	6.60	-26	35.0
0900	30	8.19	100	3.0	18.70	2.06	0.00	6.60	-27	210
0905	35	8.19	100	3.5	18.44	2.07	0.00	6.60	-27	48.9
0910	40	8.19	100	4.0	18.44	2.08	0.00	6.60	-28	69.7
0915	45	8.19	100	4.5	18.46	2.10	0.00	6.59	-28	87.8
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample With: □ Yes □ No	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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CCR GROUNDWATER FIELD LOG **Wilson Landfill**

Site Name:	Well No..	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-104**	**40.5**				

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) **392.87**	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	**8007-2994**					

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0920	50	8.19	100	5.0	18.57	2.10	0.00	6.58	-29	98.5
0925	55	8.19	100	5.5	18.54	2.11	0.00	6.57	-31	121
0930	60	8.19	100	6.0	18.49	2.11	0.00	6.57	-31	120
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0930	8.19	Clear	none	18.49	2.11	0.00	6.57	-31	120

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-112	54.01	18.55	35.46	9/23/25	0940
Site Location:	**AKGWA#**	**Casing Diameter** ☐4" ☑~~2~~" Conversion fact. 4"-0.67 2"-0.16	**Measuring Point (ft.)**	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO #**
Ohio Co, KY	8007-8614		403.82	385.27	5.67	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☐ Windy Temp. 70° (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0855	5	18.63	100	0.0	17.97	1.22	1.60	6.97	12	37.5
0900	10	18.67	100	0.5	18.03	1.23	1.32	6.96	9	33.9
0905	15	18.67	100	1.0	18.72	1.27	0.46	6.93	3	23.1
0910	20	18.~~72~~ 67	100	1.5	18.69	1.29	0.22	6.94	0	35.6
0915	25	18.~~78~~ 67	100	2.0	18.78	1.33	0.16	6.95	-1	23.7
0920	30	18.67	100	2.5	18.68	1.37	0.01	6.95	-1	14.1
0925	35	18.67	100	3.0	18.67	1.37	0.00	6.97	-2	13.8
0930	40	18.67	100	3.5	18.69	1.36	0.10	6.96	-2	7.9
0935	45	18.67	100	4.0	18.75	1.36	0.00	6.96	-3	8.6
0940	50	18.67	100	4.5	18.70	1.36	0.00	6.96	-3	8.2
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☐ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0940	18.67	Clear	None	18.70	1.36	0.00	6.96	-3	8.2

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-114	50.32	14.38	35.94	9.23.25	1025

Site Location:	AKGWA#	Casing Diameter ☐4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-8613		404.18	389.80	5.75	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☐Partly Cloudy ☐ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1005	0	14.38	100	0	19.75	0.997	5.14	6.86	-60	19.9
1010	5	14.38	100	0.5	19.40	0.982	0.61	6.86	-60	9.0
1015	10	14.38	100	1.0	19.03	0.971	0.02	6.89	-58	3.7
1020	15	16.93	100	1.5	19.05	0.959	0.00	6.88	-56	2.0
1025	20	16.93	100	2.0	19.09	0.948	0.00	6.90	-57	4.6
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ■	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
good	good	■ Yes ☐ No	■ Yes ☐ No	Filtered: ☐ Yes ■ No	Split Sample ☐ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1025	16.93	Clear	none	19.09	0.948	0.00	6.90	-57	4.6

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CCR GROUNDWATER FIELD LOG — **Wilson Landfill**

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-102	36.5	12.94	23.56	9-23-25	1150

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO#
Ohio Co, KY	8007-2995		399.71	386.77	3.77	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■ Partly Cloudy □ Windy Temp. 81 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1110	0	12.94	100	0	18.43	1.22	3.03	6.57	-42	5.9
1115	5	12.94	100	0.5	18.51	1.20	0.00	6.60	-31	3.3
1120	10	12.94	100	1.0	20.53	1.19	0.00	6.60	-31	2.6
1125	15	16.50	100	1.5	21.73	1.19	0.00	6.60	-34	4.6
1130	20	16.50	100	2.0	18.82	1.20	0.00	6.60	-45	7.5
1135	25	16.50	100	2.5	18.64	1.18	0.00	6.62	-42	6.7
1140	30	16.50	100	3.0	18.57	1.18	0.00	6.63	-43	6.0
1145	35	16.50	100	3.5	18.39	1.17	0.00	6.62	-44	6.3
1150	40	16.50	100	4.0	18.32	1.17	0.00	6.61	-46	6.0
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg /l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU
1150	16.50	Clear	none	18.32	1.17	0.00	6.61	-46	6.0

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-111	98.31	81.12	17.19	9/23/25	1205

Site Location:	AKGWA#	Casing Diameter ☐4" ☐2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8007-8615		466.06	384.94	2.75	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☐ Windy Temp. 76 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1130	5	81.17	100	0.0	21.83	3.54	2.67	6.80	-25	20.3
1135	10	81.17	100	0.5	20.85	3.60	1.20	6.76	-25	17.0
1140	15	81.17	100	1.0	21.35	3.50	0.52	6.73	-23	14.1
1145	20	81.17	100	1.5	20.18	3.58	0.41	6.72	-22	11.5
1150	25	81.17	100	2.0	20.30	3.54	0.30	6.72	-21	8.3
1155	30	81.17	100	2.5	20.34	3.54	0.32	6.72	-20	6.1
1200	35	81.17	100	3.0	20.27	3.54	0.26	6.72	-20	5.3
1205	40	81.17	100	3.5	20.35	3.54	0.23	6.72	-19	4.8
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☐ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1205	81.17	Clear	None	20.35	3.54	0.23	6.72	-19	4.8

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Cal 4.00 pH
4.84 mS/cm
10.14 mg/L DO
0.0 NTU
114.1 % DO

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-1	37.48	19.18	18.3	9.24.25	0705
Site Location:	**AKGWA#**	**Casing Diameter** ■4" □2" Conversion fact. 4"-0.67 2"-0.16	**Measuring Point (ft.)**	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO #**
Ohio Co, KY	8002-9621		443.89	424.71	~~12.60~~ 12.26	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 69 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0650	0	19.18	100	0	17.81	3.53	1.80	5.87	3	30.5
0655	5	19.18	100	0.5	17.35	3.07	0.00	5.95	-20	42.3
~~0700~~	10	19.18	100	1.0	17.17	3.05	0.00	5.93	-19	46.4
0705	15	19.18	100	1.5	17.29	3.03	0.00	5.92	-19	49.8
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump			
good	good	■ Yes □ No	■ Yes □ No	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
				Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0705	19.18	Clear	none	17.29	3.03	0.00	5.92	-19	49.8

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pH 3.93
ms/cm 4.99
NTU 0.1
mg/L DO 9.41
% DO 105.1

Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-5	75.0	55.85	19.15	9/24/25	0740

Site Location:	AKGWA#	Casing Diameter ☐4" ☑2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8005-3477		469.14	413.29	~~30.64~~ 3.06	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☐ Windy Temp. 68 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0700	0	55.83	100	0.0	18.61	4.43	8.35	6.28	13	11.8
0705	5	55.80	100	0.5	18.82	4.54	2.26	6.26	8	11.0
0710	10	55.80	100	1.0	19.19	4.62	1.39	6.25	5	13.9
0715	15	55.80	100	1.5	19.36	4.65	1.51	6.24	2	11.8
0720	20	55.80	100	2.0	19.53	4.68	1.31	6.24	1	10.5
0725	25	55.80	100	2.5	19.67	4.70	0.67	6.24	-2	7.8
0730	30	55.80	100	3.0	19.76	4.71	0.67	6.24	-4	4.3
0735	35	55.80	100	3.5	19.78	4.72	0.68	6.24	-5	3.4
0740	40	55.80	100	4.0	19.83	4.72	0.66	6.24	-6	2.5
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☑ Field Blank Collected Time: 0815	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☐ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0740	55.80	Clear	none	19.83	4.72	0.66	6.24	-6	2.5

3.99 pH
5.03 mS/cm
0.0 NTU
9.99 mg/L DO
114 % DO

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-8**	**63.46**	44.25	19.21	9.24.2025	7:50
Site Location:	**AKGWA#**	**Casing Diameter** □4" ■2" Conversion fact. 4"-0.67 2"-0.16	**Measuring Point (ft.)**	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO #**
Ohio Co, KY	**8005-3475**	**471.60**	427.35	3.07		

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 69 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
6:50	0	44.25	100ml	0	19.43	1.92	4.08	6.35	-31	1000
6:55	5	44.25	100ml	.5	18.41	1.93	1.29	6.34	-43	1000
7:00	10	44.25	100ml	1	18.16	1.93	.50	6.32	-49	1000
7:05	15	44.25	100ml	1.5	18.13	1.92	.26	6.32	-52	1000
7:10	20	44.25	100ml	2	18.18	1.92	0	6.32	-54	781
7:15	25	44.25	100ml	2.5	18.18	1.92	0	6.32	-54	537
7:20	30	44.25	100ml	3	18.31	1.92	0	6.32	-54	412
7:25	35	44.25	100ml	3.5	1834	1.92	0	6.33	-54	370
7:30	40	44.25	100ml	4	18.30	1.92	0	6.33	-54	321
7:35	45	44.25	100ml	4.5	18.22	1.92	0	6.33	-54	298
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
7:50	44.25	Cloudy	none	18.37	1.91	0	6.32	-54	183

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-8**	**63.46**				

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	**8005-3475**		**471.60**			

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
7:40	50	44.25	100ml	5	18.31	1.92	0	6.32	-54	254
7:45	55	44.25	100ml	5.5	18.31	1.91	0	6.32	-53	206
7:50	60	44.25	100ml	6	18.37	1.91	0	6.32	-54	183
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC □	□ Field Blank Collected Time:	□ Duplicated Collected Time:
		□ Yes □ No	□ Yes □ No	Filtered: □ Yes □ No	Split Sample □ Yes □ No With:	Semi-Annual □

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-7	50.00	40.19	9.81	9.24.25	0850

Site Location:	AKGWA#	Casing Diameter ☐4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8005-3479		426.14	385.95	1.57	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ■Partly Cloudy ☐ Windy Temp. 70 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
0805	0	40.19	100	0	18.12	2.87	0.00	6.29	-25	323
0810	5	40.19	100	0.5	18.18	2.86	0.00	6.30	-26	193
0815	10	40.19	100	1.0	18.30	2.86	0.00	6.30	-27	141
0820	15	40.19	100	1.5	18.37	2.87	0.00	6.30	-28	108
0825	20	40.19	100	2.0	18.40	2.87	0.00	6.29	-28	89.4
0830	25	40.19	100	2.5	18.49	2.87	0.00	6.29	-28	75.7
0835	30	40.19	100	3.0	18.52	2.88	0.00	6.29	-29	58.5
0840	35	40.19	100	3.5	17.95	2.89	0.00	6.30	-30	55.1
0845	40	40.19	100	4.0	17.74	2.86	0.00	6.29	-28	55.5
0850	45	40.19	100	4.5	17.66	2.86	0.00	6.31	-28	55.0
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ■	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
good	good	■ Yes ☐ No	■ Yes ☐ No	Filtered: ☐ Yes ■ No	Split Sample ☐ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
0850	40.19	clear	none	17.66	2.86	0.00	6.31	-28	55.0

3.99 pH
5.03 mS/cm
0.0 NTU
9.99 mg/L DO
114% DO

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-6	53.50	41.76	11.74	9.24.2025	9:55

Site Location:	AKGWA#	Casing Diameter □4" ■2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8005-3476		433.06	391.3	1.87	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■ Partly Cloudy □ Windy Temp. 71 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
8:55	0	41.76	100ml	0	20.77	3.31	8.52	6.48	22	229
9:00	5	41.76	100ml	.5	19.78	3.39	2.60	6.33	0	147
9:05	10	41.76	100ml	1	19.38	3.42	1.02	6.29	-5	126
9:10	15	41.76	100ml	1.5	19.25	3.43	.45	6.28	-7	120
9:15	20	41.76	100ml	2	19.26	3.43	0	6.27	-8	86.6
9:20	25	41.76	100ml	2.5	19.27	3.43	0	6.26	-8	60.2
9:25	30	41.76	100ml	3	19.20	3.43	0	6.27	-9	45.2
9:30	35	41.76	100ml	3.5	19.24	3.44	0	6.26	-9	31.4
9:35	40	41.76	100ml	4	19.32	3.43	0	6.26	-9	24.5
9:40	45	41.76	100ml	4.5	19.34	3.44	0	6.26	-9	21.5
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
9:55	41.76	Clear	none	19.42	3.43	0	6.27	-10	12.2

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	**MW-6**	**53.50**				

Site Location:	AKGWA#	Casing Diameter □4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	**8005-3476**		**433.06**			

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
9:45	50	41.76	100ml	5	19.41	3.43	0	6.26	-9	15.4
9:50	55	41.76	100ml	5.5	19.45	3.44	0	6.26	-9	13.9
9:55	60	41.76	100ml	6	19.42	3.43	0	6.27	-10	12.2
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☐	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
		☐ Yes ☐ No	☐ Yes ☐ No	Filtered: ☐ Yes ☐ No	Split Sample ☐ Yes ☐ No With:	Semi-Annual ☐

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-4	32.53	23.72	8.77	9.24.25	1045

Site Location:	AKGWA#	Casing Diameter ■4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.) 408.82	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8002-9624			385.06	5.88	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear □ Partly Cloudy □ Windy Temp._____(F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1010	0	23.72	100	0	18.94	2.43	0.00	6.16	-27	9.8
1015	5	23.72	100	0.5	18.86	2.41	0.00	6.16	-28	7.6
1020	10	23.72	100	1.0	18.92	2.40	0.00	6.17	-29	7.3
1025	15	23.72	100	1.5	19.00	2.39	0.00	6.17	-31	5.5
1030	20	23.72	100	2.0	19.14	239	0.00	6.17	-33	5.0
1035	25	23.72	100	2.5	19.28	2.38	0.00	6.17	-34	3.2
1040	30	23.72	100	3.0	19.38	2.38	0.00	6.17	-35	3.1
1045	35	23.72	100	3.5	19.45	2.38	0.00	6.17	-36	3.2
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes □ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1045	23.72	Clear	none	19.45	2.38	0.00	6.17	-36	3.2

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-10	22.42	13.64	8.78	9/24/25	1135

Site Location:	AKGWA#	Casing Diameter	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8005-3478	☐4" ☑2" Conversion fact. 4"-0.67 2"-0.16	398.91	385.27	1.40	

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☑ Partly Cloudy ☐ Windy Temp. 74 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1115	0	16.55	100	0.0	20.66	3.63	0.84	5.95	-26	2.0
1120	5	16.51	100	0.5	20.89	3.63	0.18	5.92	-26	3.4
1125	10	17.28	100	1.0	20.85	3.62	0.09	5.91	-18	7.9
1130	15	17.78	100	1.5	20.79	3.63	0.11	5.91	-10	7.3
1135	20	18.10	100	2.0	20.75	3.64	0.17	5.91	-7	7.8
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS ☐ Casing PVC ☑	☐ Field Blank Collected Time:	☐ Duplicated Collected Time:
Good	Good	☑ Yes ☐ No	☑ Yes ☐ No	Filtered: ☐ Yes ☑ No	Split Sample ☐ Yes ☐ No With:	Semi-Annual ☑

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1135	18.10	Clear	None	20.75	3.64	0.17	5.91	-7	7.8

3.99 pH
5.03 mS/cm
0.0 NTU
9.99 mg/L DO
1147.00

Big Rivers ELECTRIC CORPORATION

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-3	37.45	26.0	11.45	9.24.2025	11:40

Site Location:	AKGWA#	Casing Diameter ■4" □2" Conversion fact. 4"-0.67 2"-0.16	Measuring Point (ft.)	Groundwater Elevation (ft.)	Well Vol. (Gal.)	PO #
Ohio Co, KY	8002-9623		411.12	385.12	7.67	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 73 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
11:00	0	26.0	100ml	0	21.51	1.96	6.81	6.72	109	78.7
11:05	5	26.0	100ml	.5	20.59	1.95	2.95	6.58	105	122
11:10	10	26.0	100ml	1	20.25	1.93	1.53	6.52	94	134
11:15	15	26.0	100ml	1.5	20.25	1.89	.45	6.50	76	104
11:20	20	26.0	100ml	2	20.26	1.88	.18	6.47	67	91.1
11:25	25	26.0	100ml	2.5	20.17	1.88	0	6.47	60	83.7
11:30	30	26.0	100ml	3	20.09	1.87	0	6.48	55	75.3
11:35	35	26.0	100ml	3.5	20.08	1.86	0	6.46	54	73.2
11:40	40	26.0	100ml	4	20.09	1.87	0	6.47	52	69.8
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump	Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	■ Duplicated Collected Time: 11:58
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
11:40	26.0	dirty	none	20.09	1.87	0	6.47	52	69.8

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Groundwater Field Log

Wilson Landfill

Site Name:	Well No.	Total Depth (ft.)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date:	Time:
Wilson LF	MW-2	37.46	18.32	19.14	9.24.25	1200
Site Location:	**AKGWA#**	**Casing Diameter** ■4" □2" Conversion fact. 4"-0.67 2"-0.16	**Measuring Point (ft.)**	**Groundwater Elevation (ft.)**	**Well Vol. (Gal.)**	**PO#**
Ohio Co, KY	8002-9622		417.11	398.79	12.82	

□ Rain □ Sleet/Freezing Rain □ Snow □ Fog □ Clear ■Partly Cloudy □ Windy Temp. 74 (F°)

Time	ET (min)	Depth to Water (ft.)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond. (mS)	DO Mg/L	pH (SU)	eH/ORP (mV)	Turbidity (NTU)
1130	0	18.32	100	0	21.86	0.914	4.25	6.52	-97	43.0
1135	5	18.32	100	0.5	20.11	0.891	0.00	6.36	-99	32.8
1140	10	18.32	100	1.0	19.93	0.891	0.00	6.34	-103	27.7
1145	15	19.71	100	1.5	19.96	0.880	0.00	6.34	-105	21.7
1150	20	19.71	100	20	19.97	0872	0.00	6.35	-104	17.2
1155	25	19.71	100	2.5	20.00	0.866	0.00	6.36	-104	16.1
1200	30	19.71	100	3.0	20.19	0.864	0.00	6.37	-104	17.3
For three (3) consecutive Readings			Required Purge	Actual Purge	+/- 3% (°C)	+/- 3%	+/- 10% <0.5mg/l stable	+/- .10 (SU)	+/- 10 mV	+/- 10% unless <5 NTU consider stable

Well Condition	Pad Condition	Lock Functioning	Bladder Pump			
				Casing SS □ Casing PVC ■	□ Field Blank Collected Time:	□ Duplicated Collected Time:
good	good	■ Yes □ No	■ Yes □ No	Filtered: □ Yes ■ No	Split Sample □ Yes ■ No With:	Semi-Annual ■

Sample Time	Depth to Water	Color	Odor	Temp. (C°)	Sp. Cond. (mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity NTU)
1200	19.71	Clear	none	20.19	0.864	0.00	6.37	-104	17.3

Appendix C – Analytical Summary Tables

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-5

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE												
			4/4/2016	5/20/2016	8/25/2016	10/4/2016	2/15/2017	5/17/2017	8/16/2017	9/28/2017	10/12/2017	4/13/2018	7/12/2018	10/3/2018	6/30/2019
			Baseline Events									Assessment	Re-sample	Assessment	
Boron			0.387 JB	0.282 JB	0.386 J	0.367 JB	0.839 J	0.981 JB	1.17	0.81 J	1.27		0.667 J	0.755 JB	ND D2 U
Calcium			673	472	509	464	471 B	514 B	480	493	480 B		504	471	670 D1
Chloride			49.3 B	60.2 JB	73.5	89.8	160 B	169 B	180	158 B	261		69.3 B	94 B	159 D
Fluoride	4.0 mg/L	MCL	ND J	ND J	ND	0.838	ND J	ND J	ND JB	ND J	2.88		ND J	ND J	ND U
Sulfate			1630	1950	1670 B	1570 B	1620	1530	2040 B	1860 B	1730 B		1520	1640 B	2060 D
pH (Field Measurement)			6.59	6.34	7.17	6.93	5.94	6.92	6.77	6.46	7.18	6.67	6.13	6.25	6.39
Total Dissolved Solids			2840	2960	2940	2930	3000	3100	3220	3090	3040		3210	3200	3440
APPENDIX IV CONSTITUENTS															
Antimony	0.006 mg/L	MCL	ND	ND	ND J	ND JB	ND	ND JB	ND JB	ND J	NA	ND JB	ND J	NA	ND U
Arsenic	0.0144 mg/L	Background	0.00524 J	0.00523	0.00577 B	ND J	ND J	ND JB	ND J	ND J	NA	ND J	ND J	ND J	0.0025
Barium	2.0 mg/L	MCL	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	NA	ND J	ND J	NA	0.01
Beryllium	0.004 mg/L	MCL	ND	ND J	ND J	ND J	ND	ND J	ND J	ND	NA	ND	NA	NA	ND U
Cadmium	0.005 mg/L	MCL	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND U
Chromium	0.1 mg/L	MCL	ND	ND J	0.00309 B	ND J	ND	ND J	ND J	ND	NA	ND J	ND	NA	ND U
Cobalt	0.009 mg/L	Background	0.00909 J	0.00829	0.00659	0.00664	0.00518	0.0057	ND J	0.0051	NA	0.00873	0.00672	0.0066	0.009
Fluoride	4.0 mg/L	MCL	ND J	ND J	ND	0.838	ND J	ND J	ND JB	ND J	NA	ND J	ND J	ND J	ND U
Lead	0.015 mg/L	CCR Rule Value	ND	ND	ND J	ND JB	ND J	ND J	ND J	ND J	NA	ND J	ND J	NA	ND U
Lithium	0.040 mg/L	CCR Rule Value	0.0243 J	0.0283 J	0.0374 J	0.0338 J	0.0432	0.042 J	0.0489 J	0.0398	NA	0.0370 J	0.0375 J	0.0382 J	0.03
Mercury	0.002 mg/L	MCL	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND U
Molybdenum	0.1 mg/L	CCR Rule Value	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	NA	ND J	ND J	ND J	0.004 J
Radium 226 Radium 228	5.0 pCi/L	MCL	0.645	0.915	0.714	1.19	1.01	0.967	1.22	1.01	NA	0.783	0.711	1.23	1.8
Selenium	0.05 mg/L	MCL	ND	ND J	ND J	ND J	ND J	ND JB	ND J	ND	NA	ND J	ND J	NA	ND U
Thallium	0.002 mg/L	MCL	ND	ND J	ND	ND J	ND	ND J	ND J	ND	NA	ND	ND	NA	ND U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = compound was found in the blank and sample.
CCR = coal combustion residuals
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
pCi/L = picocuries per liter

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-5

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																					
			11/6/2019		4/22/2020		10/13/2020		5/13/2021		9/30/2021		4/27/2022		9/26/2022		4/25/2023		10/2/2023		4/17/2024		10/1/2024	
			Assessment																					
Boron			ND	D2 U	0.66		0.69		0.68		0.70		0.75		0.73	M2	0.75		0.75	M2	0.86	M1, M2	0.88	
Calcium			541	D1	600	D1	571	D1	662	D1	582	D1	614	D1	580	D1,M3	635	D1	573	D1,M3	642	D1, M3	620	D1
Chloride			98.2	D	208	D	199	D	185	D	303	D	221		216	D,J+	92.7	D2	320	D	764	D, M2, J-	275	D
Fluoride	4.0 mg/L	MCL	ND	U	<0.20		<0.20		<0.20		<0.20		<0.20	U	<0.20	U,M1,UR	<0.20	V1, U	<0.20	U	<0.20	M2, Y5, U, J-	<0.20	U
Sulfate			1490	D	2820	D	1800	D	2010	D	2420	D	1710	D, J	1970	D	4710		1950	D,J	4520	D, M2	1790	D
pH (Field Measurement)			6.44		6.71		5.95		6.38		6.19		6.20		4.76		6.47		6.24		6.30		6.32	
Total Dissolved Solids			3290		3460		3770		3790		3830		3480		3580		3650		3680		3320	Y1	3000	
APPENDIX IV CONSTITUENTS																								
Antimony	0.006 mg/L	MCL	ND	U	<0.005		<0.005		<0.005		<0.005		<0.005	U	<0.005	U,M2,V1	<0.005	U	<0.005	U	<0.005	U, JU	<0.005	U
Arsenic	0.0144 mg/L	Background	0.0023		0.0025		0.0029		0.0027		0.0026		0.0026		0.0026	M2	0.0050		0.0028		0.0030	M1, J+	0.0026	
Barium	2.0 mg/L	MCL	0.010		0.011		0.011		0.011		0.010		0.011		0.01	M2	0.011		0.011		0.011		0.010	
Beryllium	0.004 mg/L	MCL	ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U,M2,V1	<0.002	U	<0.0020	U	<0.0040	D2, U, UJ	<0.0020	U
Cadmium	0.005 mg/L	MCL	ND	U	<0.0010		<0.0010		<0.0010		<0.0010		<0.0010	U	<0.0010	U,M2	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U
Chromium	0.1 mg/L	MCL	ND	U	<0.0020		<0.0020		0.0010	B, J	<0.0020		<0.0020	U	<0.0020	U,M2	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U
Cobalt	0.009 mg/L	Background	0.008		0.008		0.010		0.008		0.008		0.007		0.008	M2	0.007		0.005		0.006	J-	0.005	
Fluoride	4.0 mg/L	MCL	ND	U	<0.20		<0.20		<0.20		<0.20		<0.20	U	<0.20	U,M1,UR	<0.20	V1, U	<0.20	U	<0.20	M2, Y5, U,J-	<0.20	U
Lead	0.015 mg/L	CCR Rule Value	ND	U	<0.002		<0.002		<0.002		<0.002		<0.002	U	<0.002	U,M2	<0.002	U	<0.002	U	<0.002	U	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.03		0.03		0.03		0.03		0.03		0.03		0.03	M2	0.03		0.04		0.04	D2, J-	0.04	
Mercury	0.002 mg/L	MCL	ND	U	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	U	<0.0005	U,M2, UJ	<0.000005	U	<0.000005	UJ	<0.000005	U, UJ	<0.000005	
Molybdenum	0.1 mg/L	CCR Rule Value	0.004	J	0.004	J	0.004	J	0.003	J	0.004	J	0.003	J	0.004	M2,J	0.003	J	0.004	J	0.004	J	0.005	J
Radium 226 + Radium 228	5.0 pCi/L	MCL	0.434		1.22		1.70		1.29		1.62		0.900	J	1.38	J	1.04	J	1.93	J	1.37	J	1.79	
Selenium	0.05 mg/L	MCL	ND	U	<0.003		<0.003		<0.003		<0.003		<0.003	U	<0.003	U,M2	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U,M2	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
J+ = Qualified as estimated potential high bias during data review.
M1 = Matrix spike recovery was high; the method control sample recovery was acceptable.
M2 = Matrix spike recovery was low; the method control sample recovery was acceptable.
M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
MCL = maximum contaminant level
ND = not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.
UJ = Non-detect result was qualified as estimated at the reporting limit during data review.
UR = Non-detect result was rejected during data review.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-5

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE			
			4/29/2025		9/24/2025	
			Assessment			
Boron			0.96	M1	1.30	D1, M2
Calcium			789	D1, M3	704	D1, M3
Chloride			276	D	470	D
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	U
Sulfate			1580	D, M1	1930	D
pH (Field Measurement)			6.40		6.24	
Total Dissolved Solids			3540		4670	
APPENDIX IV CONSTITUENTS						
Antimony	0.006 mg/L	MCL	<0.005	M1, U	<0.005	U
Arsenic	0.0144 mg/L	Background	0.0032		0.0030	
Barium	2.0 mg/L	MCL	0.013		0.012	
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U
Chromium	0.1 mg/L	MCL	0.0006	J	<0.0020	L1, U
Cobalt	0.009 mg/L	Background	0.006		<0.004	L1, U
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	U
Lead	0.015 mg/L	CCR Rule Value	0.0007	J	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.04	M1	0.05	
Mercury	0.002 mg/L	MCL	<0.000005	M2, Y2, U	<0.000005	U
Molybdenum	0.1 mg/L	CCR Rule Value	0.005	J	0.004	L1, J
Radium 226	5.0 pCi/L	MCL	1.19		1.19	
Radium 228						
Selenium	0.05 mg/L	MCL	<0.003	U	0.001	J
Thallium	0.002 mg/L	MCL	<0.0020	U	<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = Coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
J- = Qualified as estimated potential low bias during data review.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-6

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																					
			4/5/2016		5/19/2016		8/25/2016		10/4/2016		2/15/2017		5/18/2017		8/16/2017		9/29/2017		10/12/2017		4/13/2018		7/12/2018		10/4/2018	
			Baseline Events																		Assessment		Re-sample		Assessment	
Boron			0.255	JB	0.243	JB	0.27	J	0.228	JB	0.293		0.265	JB	0.298	J	0.328	J	0.286	J			0.250	J	0.272	JB
Calcium			534		466		470		445		414	B	490	B	477		459		438	B			478	J	426	
Chloride			3.65	B	5.09	B	4.1	B	4.63		4.93		4.37	B	5.49	B	5.36	B	5.6				4.79	B	6.16	B
Fluoride	4.0 mg/L	MCL	ND	J	ND	JB	ND		ND		ND	J	ND	J	ND	JB	ND	J	2.96				ND	J	ND	J
Sulfate			1560		1710		1660	B	1790	B	1610		1570		1840	B	1630	B	1670	B			1730		1590	B
pH (Field Measurement)			6.40		6.26		6.56		6.64		6.09		6.35		6.36		6.29		6.4		6.15		6.07		6.08	
Total Dissolved Solids			2740		2780		2790		2800		2620		2820		2950		2900		2920				2920		3050	
APPENDIX IV CONSTIUENTS																										
Antimony	0.006 mg/L	MCL	ND		ND	J	ND	J	ND	JB	ND	J	ND	JB	ND	JB	ND	JB			ND	JB	ND	J	NA	
Arsenic	0.0144 mg/L	Background	ND	J	0.00736		ND	JB	0.00534		0.0123		ND	B	0.00598		0.00632				ND	J	0.00683		0.00592	
Barium	2.0 mg/L	MCL	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J			ND	J	ND	J	NA	
Beryllium	0.004 mg/L	MCL	ND		ND		ND		ND	J	ND		ND		ND		ND				ND		NA		NA	
Cadmium	0.005 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		4		NA	
Chromium	0.1 mg/L	MCL	ND		ND	J	ND	B	ND		ND		ND		ND		ND	J			ND	J	ND		NA	
Cobalt	0.009 mg/L	Background	0.00728	J	0.00713		0.0074		0.00688		0.0054		0.0059		0.00578		0.00686				0.00742		0.00672		0.00666	
Fluoride	4.0 mg/L	MCL	ND	J	ND	J	ND		ND		ND	J	ND	J	ND	JB	ND	J			ND	J	ND	J	ND	J
Lead	0.015 mg/L	CCR Rule Value	ND		ND	J	ND	J	ND	JB	ND	J	ND	J	ND	J	ND	J			ND	J	ND	J	NA	
Lithium	0.040 mg/L	CCR Rule Value	0.0326	J	0.0419	J	0.0494	J	0.0459	J	0.0508		0.0455	J	0.0495	J	0.0472	J			0.0470	J	0.0496	J	0.0463	J
Mercury	0.002 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		0.000161	J F1			ND		NA		NA	
Molybdenum	0.1 mg/L	CCR Rule Value	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J			ND	J	ND	J	ND	J
Radium 226 + Radium 228	5.0 pCi/L	MCL	0.596		0.581		0.519		0.847		0.919		0.892		0.82		0.639				0.900		0.795		1.44	
Selenium	0.05 mg/L	MCL	ND		ND		ND		ND	J	ND		ND		ND		ND				ND		ND		NA	
Thallium	0.002 mg/L	MCL	ND		ND	J	ND	J	ND	J	ND		ND		ND		ND	J			ND	J	ND		NA	

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = compound was found in the blank and sample.
CCR = coal combustion residuals
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
pCi/L = picocuries per liter

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-6

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																					
			6/30/2019		11/6/2019		4/22/2020		10/13/2020		5/13/2021		9/30/2021		4/27/2022		9/26/2022		4/25/2023		10/3/2023		4/16/2024		9/30/2024	
			Assessment																							
Boron			ND	D2 U	ND	D2 U	0.31		0.34		0.43		0.51		0.52	M2	0.58		0.87		0.71		1.37	D1	1.00	D1, M2
Calcium			433	D1	482	D1	511	D1	483	D1	568	D1	473	D1	484	D1, M2	505	D1	461	D1	504	D1	525	D1	475	D1, M3
Chloride			8.2		16.3		10.2		18.9		16.4		33.0	D	16.5		24.4	D	10.9	D2, J	33.7		56.5		46.3	
Fluoride	4.0 mg/L	MCL	ND	U	ND	U	0.21		<0.20		0.20		<0.20		<0.20	U	<0.20	U	<0.20	V1, U	<0.20	U	0.23		0.21	
Sulfate			2040	D	1280	D	2370	D1	1750	D	1730	D	2200	D	1470	D	1710	D	432	D2, J	3140	D	4420	D	1500	D
pH (Field Measurement)			6.39		6.29		6.21		6.72		7.22		6.13		6.44		4.76		6.45		6.31		6.67		6.56	
Total Dissolved Solids			2700		3170		2750		3030		3020		3120		2790		2920		2300		2820		2520		2640	
APPENDIX IV CONSTIUENTS																										
Antimony	0.006 mg/L	MCL	ND	U	ND	U	<0.005		<0.005		<0.005		<0.005		<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	0.0046		0.0060		0.0050		0.0054		0.0047		0.0051		0.0046		0.0049		0.0050		0.0054		0.0052		0.0049	
Barium	2.0 mg/L	MCL	0.010		0.012		0.012		0.013		0.012		0.012		0.011		0.012		0.012		0.014		0.011		0.011	
Beryllium	0.004 mg/L	MCL	ND	U	ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	D2, U	<0.0020	U
Cadmium	0.005 mg/L	MCL	ND	U	ND	U	<0.0010		<0.0010		<0.0010		<0.0010		<0.0010	U	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U
Chromium	0.1 mg/L	MCL	ND	U	ND	U	<0.0020		0.0007	J	0.0007	B,J	<0.0020		<0.0020	U	<0.0020	U	0.0008	J	<0.0020	U	<0.0020	U	<0.0020	U
Cobalt	0.009 mg/L	Background	0.008		0.008		0.009		0.009		0.008		0.008		0.008		0.008		0.007		0.007		0.006		0.007	
Fluoride	4.0 mg/L	MCL	ND	U	ND	U	0.21		<0.20		0.20		<0.20		<0.20	U	<0.20	U	<0.20	V1, U	<0.20	U	0.23		0.21	
Lead	0.015 mg/L	CCR Rule Value	ND	U	0.0005	J	0.0005	J	0.0006	J	<0.002		<0.002		<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.04		0.04		0.04		0.04		0.04		0.05		0.04	J-	0.04		0.04		0.04		0.05	D2	0.04	
Mercury	0.002 mg/L	MCL	ND	U	ND	U	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	U	<0.0005	U	<0.000005	U	<0.000005	U	<0.000005	U	<0.000005	U, M2
Molybdenum	0.1 mg/L	CCR Rule Value	0.006	J	0.007	J	0.006	J	0.007	J	0.006	J	0.007	J	0.006	J	0.007	J	0.006	J	0.007	J	0.008	J	0.007	J
Radium 226 Radium 228	5.0 pCi/L	MCL	0.8		1.42		0.804		0.568		0.758		0.610		1.49		0.84	J	1.64	J	1.98	J	0.95	J	0.853	
Selenium	0.05 mg/L	MCL	ND	U	ND	U	<0.003		<0.003		<0.003		<0.003		<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	ND	U	ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J- = Qualified as estimated potential low bias during data review.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
NA = not analyzed
ND = Not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-6

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE			
			4/29/2025		9/24/2025	
			Assessment			
Boron			0.80		1.55	D1
Calcium			542	D1	525	D1
Chloride			29.9		83.7	
Fluoride	4.0 mg/L	MCL	<0.20	U	0.20	
Sulfate			1650	D	1660	D
pH (Field Measurement)			6.4		6.27	
Total Dissolved Solids			2630		2600	
APPENDIX IV CONSTIUENTS						
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	0.0044		0.0056	
Barium	2.0 mg/L	MCL	0.012		0.012	
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	<0.0010	U	0.0001	J
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U
Cobalt	0.009 mg/L	Background	0.009		0.008	
Fluoride	4.0 mg/L	MCL	<0.20	U	0.20	
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	0.0009	J
Lithium	0.040 mg/L	CCR Rule Value	0.04		0.04	
Mercury	0.002 mg/L	MCL	<0.000005	U	<0.000005	U
Molybdenum	0.1 mg/L	CCR Rule Value	0.006	J	0.006	J
Radium 226	5.0 pCi/L	MCL	1.55		1.50	
Radium 228						
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	<0.0020	U	<0.0020	U

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B = Compound was found in the blank and sample.
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J- = Qualified as estimated potential low bias during data review.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-7

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																					
			4/4/2016		5/19/2016		8/25/2016		10/6/2016		2/15/2017		5/18/2017		8/16/2017		9/29/2017		10/12/2017		4/13/2018		7/12/2018		10/4/2018	
			Baseline Events																		Assessment		Re-sample		Assesmment	
Boron			0.241	JB	0.165	JB	0.277	J	0.203	JB	0.293	J	0.232	JB	0.263	J	0.28	J	0.245	J			0.324	J	0.395	JB
Calcium			364		241		287		251		262	B	273	B	268		269		259	B			297		271	
Chloride			3.47	B	5.31	B	5.67	B	5.65	B	6.15		6.91	B	7.91	B	7.54	B	7.77				17.1	B	21.9	B
Fluoride	4.0 mg/L	MCL	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	JB	ND	J	1.43				ND	J	ND	J
Sulfate			759		784		813	B	822		850		877		940	B	1780	B	910	B			837		888	B
pH (Field Measurement)			6.53		6.29		6.60		7.33		5.60		6.55		6.49		6.32		6.50		6.26		6.18		6.23	
Total Dissolved Solids			1450		1450		1520		1560		1540		1550		1600		1590		1610				1720		1750	
APPENDIX IV CONSTIUENTS																								
Antimony	0.006 mg/L	MCL	ND		ND		ND	J	ND	JB	ND		ND	JB	ND	JB	ND	JB			ND	JB	ND	J	NA	
Arsenic	0.0144 mg/L	Background	ND		ND	J	ND	JB	ND	J	ND	J	ND	JB	ND	J	ND	J			ND	J	ND	J	ND	J
Barium	2.0 mg/L	MCL	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J			ND	J	ND	J	NA	
Beryllium	0.004 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		NA		NA	
Cadmium	0.005 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		NA		NA	
Chromium	0.1 mg/L	MCL	ND		ND	J	0.00304	B	ND		ND		ND		ND		ND				ND	J	ND		NA	
Cobalt	0.009 mg/L	Background	0.0084	J	0.0058		0.0062		0.00483	J	0.00531		0.00358	J	0.00395	J	0.00454	J			0.00468	J	0.00365	J	0.00346	J
Fluoride	4.0 mg/L	MCL	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	JB	ND	J			ND	J	ND	J	ND	J
Lead	0.015 mg/L	CCR Rule Value	ND		ND		ND		ND	J	ND		ND		ND		ND				ND		ND	J	NA	
Lithium	0.040 mg/L	CCR Rule Value	0.0241	J	0.0241	J	0.0305	J	0.0263	J	0.0318	J	0.0277	J	0.0291	J	0.0278				0.0261	J	0.0271	J	0.0273	J
Mercury	0.002 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		NA		NA	
Molybdenum	0.1 mg/L	CCR Rule Value	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J			ND	J	ND	J	ND	J
Radium 226 Radium 228	5.0 pCi/L	MCL	0.727		0.558		0.613		0.66		ND		0.817		0.852		0.779				0.572		0.697		0.935	
Selenium	0.05 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		ND		NA	
Thallium	0.002 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		ND		NA	

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-7

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																			
			6/27/2019		11/7/2019		4/22/2020		10/13/2020		5/13/2021		9/30/2021		4/27/2022		9/27/2022		4/25/2023		10/3/2023		4/16/2024		10/1/2024	
			Assessment																					
Boron			1.75	B	1.41	D2	1.58	D1	2.26	D1	2.71	D1	2.37	D1	3.05	D1	2.93	D1	2.85	D1	3.01	D1	5.23	D1	3.33	D1
Calcium			329		331	D1	369	D1	350	D1	475	D1	383	D1	420	D1	449	D1	464	D1	343	D1	453	D1	405	D1
Chloride			32.0		30.1		40.0		45.0	D	90.7	D	96.1	D	120	D	17.4	D	94.5		76		389	D	104	
Fluoride	4.0 mg/L	MCL	0.222		0.21		0.27		0.22		0.28		0.26		0.22		<1.00	U	0.25		0.23		0.25		0.25	
Sulfate			1030		809	D	1310	D1	1050	D	885	D	2420	D	1950	D	1350	D1	2300	D, M3	1630	D	3400	D	1070	D
pH (Field Measurement)			6.66		6.59		6.90		6.02		6.52		6.30		6.47		6.58		6.55		6.3		6.79		6.48	
Total Dissolved Solids			1820		1890		1910		1950		2240		2230		2310		2290		2540		2230		1760	H2, J	2260	
APPENDIX IV CONSTIUENTS																										
Antimony	0.006 mg/L	MCL	0.000242	JB	ND	U	<0.005		<0.005		<0.005		<0.005		<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	0.00423	J	0.0034		0.0075		0.0036		0.0039		0.0041		0.0040		0.0034		0.0037		0.004		0.0036		0.0040	
Barium	2.0 mg/L	MCL	0.0164	JB	0.013		0.025		0.013		0.014		0.013		0.013		0.012		0.012		0.016		0.014		0.012	
Beryllium	0.004 mg/L	MCL	ND		ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	ND		ND	U	<0.0010		<0.0010		<0.0010		<0.0010		<0.0010		<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U
Chromium	0.1 mg/L	MCL	0.0247	B	ND	U	0.0053		<0.0020		0.0008	B, J	0.0007	J	0.0006	J	<0.0020	U	0.0013	J	0.0011	J	<0.0020	U	<0.0020	U
Cobalt	0.009 mg/L	Background	0.00236	JB	ND	U	0.006		<0.004		<0.004		<0.004		<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U
Fluoride	4.0 mg/L	MCL	0.222		0.21		0.27		0.22		0.28		0.26		0.22		<1.00	U	0.25		0.23		0.25		0.25	
Lead	0.015 mg/L	CCR Rule Value	0.000348	J	ND	U	0.004		<0.002		<0.002		<0.002		<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.0323	J	0.02		0.03		0.03		0.03		0.03		0.19		0.03		0.02		0.03		0.04	D2	0.03	
Mercury	0.002 mg/L	MCL	ND		ND	U	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	U	<0.0005	U	<0.000005	U	<0.000005	U	<0.000005	U	<0.000005	U
Molybdenum	0.1 mg/L	CCR Rule Value	0.0142		0.006	J	0.003	J	0.005	J	0.005	J	0.006	J	0.006	J	0.006	J	0.006	J	0.005	J	0.006	J	0.005	J
Radium 226 Radium 228	5.0 pCi/L	MCL	0.597		0.864		1.05		0.967		0.224		1.23		0.605	J	2.16	J	0.924	J	0.593	J	1.08	J	0.570	
Selenium	0.05 mg/L	MCL	0.000427	J	ND	U	<0.003		<0.003		<0.003		<0.003		<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	ND		ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
**Monitoring Well MW-7 Radium 226/228 sample collected 9/27/2022 was lost by laboratory and was resampled on 11/1/2022.
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
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MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-7

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE			
			4/29/2025		9/24/2025	
			Assessment			
Boron			6.87	D1	3.28	D1
Calcium			545	D1	429	D1
Chloride			222	D	158	D
Fluoride	4.0 mg/L	MCL	0.22		0.24	
Sulfate			1310	D	1190	D
pH (Field Measurement)			6.54		6.31	
Total Dissolved Solids			2240		2720	
APPENDIX IV CONSTIUENTS						
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	0.0050		0.0037	
Barium	2.0 mg/L	MCL	0.015		0.012	
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U
Chromium	0.1 mg/L	MCL	0.0006	J	0.0006	J
Cobalt	0.009 mg/L	Background	<0.004	U	<0.004	U
Fluoride	4.0 mg/L	MCL	0.22		0.24	
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.03		0.03	
Mercury	0.002 mg/L	MCL	<0.000005	U	<0.000005	U
Molybdenum	0.1 mg/L	CCR Rule Value	0.005	J	0.004	J
Radium 226 + Radium 228	5.0 pCi/L	MCL	1.83		1.07	
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	<0.0020	U	<0.0020	U

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pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-8

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																			
			4/4/2016		5/19/2016		8/25/2016		10/3/2016		2/15/2017		5/17/2017		8/15/2017		9/28/2017		10/12/2017		4/13/2018		7/12/2018		10/3/2018	
			Baseline Events																		Assessment		Re-sample		Assessment	
Boron			ND	JB	ND	JB	ND	J	ND	JB	ND	J	ND	JB	ND	J	ND	J	ND	J			ND	J	0.0388	JB
Calcium			329		242		237		226		213	B	225	B	230		214		216	B			245		207	
Chloride			4.12	B	5.48	B	4.38	B	4.69		4.7		4.19	B	4.68	B	4.82	B	4.44				3.83	B	4.80	B
Fluoride	4.0 mg/L	MCL	ND	J	ND	J	ND	J	ND	JB	ND	J	ND	J	ND	JB	ND	J	1.210				ND	J	ND	J
Sulfate			876		910		872	B	854	B	779	B	877		964	B	900	B	894	B			887		799	B
pH (Field Measurement)			6.47		6.34		6.64		6.63		4.91		6.47		6.44		6.35		6.50		6.28		6.08		6.25	
Total Dissolved Solids			1530		1590		1550		1520		1450		1560		1590		1520		1560				1690		1560	
APPENDIX IV CONSTIUENTS																										
Antimony	0.006 mg/L	MCL	ND		ND		ND	J	ND	JB	ND		ND	JB	ND	JB	ND	J			ND	JB	ND	J	NA	
Arsenic	0.0144 mg/L	Background	0.00931	J	0.00698		0.00709	B	0.00581		0.00799		0.0072	B	0.00548		0.00515				0.00525		0.00558		0.00757	
Barium	2.0 mg/L	MCL	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J			ND	J	ND	J	NA	
Beryllium	0.004 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		NA		NA	
Cadmium	0.005 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		NA		NA	
Chromium	0.1 mg/L	MCL	ND		ND	J	ND	JB	ND		ND		ND		ND		ND				ND	J	ND	J	NA	
Cobalt	0.009 mg/L	Background	ND		0.00156	J	0.00118	J	0.0015	J	0.0011	J	0.000739	J	0.000943	J	0.00102	J			0.000800	J	0.00113	J	0.000849	J
Fluoride	4.0 mg/L	MCL	ND	J	ND	J	ND	J	ND	JB	ND	J	ND	J	ND	JB	ND	J			ND	J	ND	J	ND	J
Lead	0.015 mg/L	CCR Rule Value	ND		ND		ND		ND		ND		ND		ND		ND				ND		ND	J	NA	
Lithium	0.040 mg/L	CCR Rule Value	ND		ND		0.0116	J	0.012	J	0.0142	J	0.0103	J	0.0137	J	ND				ND		0.0125	J	0.0129	J
Mercury	0.002 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		NA		NA	
Molybdenum	0.1 mg/L	CCR Rule Value	0.0187	J	0.0142		0.0145		0.0151		0.0185		0.0137		0.0166		0.0153				0.0123		0.0129		0.0137	
Radium 226 + Radium 228	5.0 pCi/L	MCL	1.12		1.31		0.741		1.12		0.854		1.07		1.04		0.901				0.802		1.29		1.69	
Selenium	0.05 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND	J	ND				ND		ND	J	NA	
Thallium	0.002 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		ND		NA	

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-8

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																					
			6/30/2019		11/5/2019		4/22/2020		10/13/2020		5/13/2021		9/30/2021		4/27/2022		9/26/2022		4/26/2023		10/2/2023		4/16/2024		9/30/2024	
			Assessment																							
Boron			ND	D2,U	ND	D2,M2,U	<0.10		<0.10		<0.10		<0.10		<0.10	U	<0.10	U	<0.10	U	<1.00	D1, U	<0.10	U	<0.10	U
Calcium			248	D1	240	D1 M3	255	D1	249	D1	349	D1	231	D1	239	D1	228	D1	218	D1	214	D1	218	D1	220	D1
Chloride			4.1		4.7		3.6		3.7		3.8		3.9	M2	3.7		3.7	H2	4.2	D2	3.7		5		4.0	
Fluoride	4.0 mg/L	MCL	0.2		0.27		0.27		0.23		0.30		0.28	M2	0.25		<1.00	D,U	<2.00	D2,V1,U	0.25		0.29		0.27	
Sulfate			920	D	1480	D	1010	D	992	D	980	D	2180	D,M2,Y2	1330	D	935	D1	721	D2, J-	1140	D	1800	D	711	D
pH (Field Measurement)			6.30		6.30		6.18		6.55		6.84		6.35		6.28		4.67		6.41		6.63		6.3		6.66	
Total Dissolved Solids			1640		1570		1500		1680		1750		1630		1470		1420		1110		1640		1270		1440	
APPENDIX IV CONSTIUENTS																										
Antimony	0.006 mg/L	MCL	ND	U	ND	U	<0.005		<0.005		<0.005		<0.005		<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	0.0054		0.0056		0.0056		0.0144		0.0052		0.0053		0.0102		0.0053		0.0047		0.0056		0.0039		0.0060	
Barium	2.0 mg/L	MCL	0.024		0.022		0.024		0.070		0.023		0.023		0.050		0.022		0.018		0.021		0.014		0.022	
Beryllium	0.004 mg/L	MCL	ND	U	ND	M2,U	<0.0020		<0.0020		<0.0020		<0.0020		0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	ND	U	ND	U	<0.0010		0.0004	J	<0.0010		<0.0010		0.0003	J	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U
Chromium	0.1 mg/L	MCL	ND	U	0.0009	J	0.0008	J	0.0224		0.0011	B, J	0.0018	J	0.0155		0.0015	J	0.0008	J	0.0016	J	0.0008	J	0.0031	
Cobalt	0.009 mg/L	Background	ND	U	ND	U	<0.004		0.015		<0.004		<0.004		0.009		<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U
Fluoride	4.0 mg/L	MCL	0.2		0.27		0.27		0.23		0.30		0.28	M2	0.25		<1.00	D,U	<2.00	D2,V1,U	0.25		0.29		0.27	
Lead	0.015 mg/L	CCR Rule Value	ND	U	0.0005	J	<0.002		0.012		<0.002		0.0008	J	0.007		0.0007	J	<0.002	U	0.0006	J	<0.002	U	0.001	J
Lithium	0.040 mg/L	CCR Rule Value	0.009	J	0.009	J	0.009	J	0.02		0.008	J	0.01	V1,J	0.02		0.01	J	0.008	J	0.009	J	0.01	D2, J	0.009	J
Mercury	0.002 mg/L	MCL	ND	U	ND	U	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	U	<0.0005	U	<0.000005	U	<0.000005	U	<0.000005	U	3.8	J
Molybdenum	0.1 mg/L	CCR Rule Value	0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01	
Radium 226 Radium 228	5.0 pCi/L	MCL	2.8		0.946		1.07		2.94		0.968		0.859		1.52		1.67	J	1.66	J	1.08	J	1.18	J	0.300	
Selenium	0.05 mg/L	MCL	ND	U	ND	U	<0.003		<0.003		<0.003		<0.003		<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	ND	U	0.0001	J	<0.0020		<0.0020		<0.0020		<0.0020		0.0001	J	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = Coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
H2 = Initial analysis within holding time. Reanalysis was past holding time.
J- = Qualified as estimated potential low bias during data review.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
M2 = Matrix spike recovery was low; the method control sample recovery was acceptable.
M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
MCL = maximum contaminant level
NA = not analyzed
ND = Not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-8

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	4/28/2025		9/24/2025	
Boron			<0.10	U	<0.10	U
Calcium			236	D1	255	D1
Chloride			3.6		3.5	
Fluoride	4.0 mg/L	MCL	0.25		0.26	
Sulfate			815	D	812	D
pH (Field Measurement)			6.58		6.32	
Total Dissolved Solids			1680		1540	
APPENDIX IV CONSTIUENTS						
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	0.0059		0.0053	
Barium	2.0 mg/L	MCL	0.023		0.019	
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U
Chromium	0.1 mg/L	MCL	0.0017	J	0.0008	J
Cobalt	0.009 mg/L	Background	<0.004	U	<0.004	U
Fluoride	4.0 mg/L	MCL	0.25		0.26	
Lead	0.015 mg/L	CCR Rule Value	0.0006	J	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.009	J	0.01	J
Mercury	0.002 mg/L	MCL	<0.000005	U	<0.000005	U
Molybdenum	0.1 mg/L	CCR Rule Value	0.01		0.01	
Radium 226	5.0 pCi/L	MCL	1.78		1.85	
Radium 228						
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	<0.0020	U	<0.0020	U

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B = Compound was found in the blank and sample.
CCR = Coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
J- = Qualified as estimated potential low bias during data review.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-10

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																					
			4/5/2016		5/18/2016		8/25/2016		10/6/2016		2/17/2017		5/18/2017		8/18/2017		10/2/2017		10/13/2017		4/14/2018		7/13/2018		10/5/2018	
			Baseline Events																		Assessment		Re-sample		Assessment	
Boron			0.291	JB	0.217	JB	0.205	J	0.166	JB	0.229	J	0.163	JB	0.196	J	0.181	J	0.251	J			0.144	J	0.286	JB
Calcium			497		390		404		369		440	B	390	B	368		379	B	347	B			378	J	334	
Chloride			53.7	B	85.7	JB	53		44	B	44	B	47.4	B	43.5	B	63.3		83				48.2	B	59.2	B
Fluoride	4.0 mg/L	MCL	ND	JB	ND	J	ND		ND	J	ND	J	ND	J	ND	JB	ND	J	2.8				ND	J	ND	J
Sulfate			2090		2210		2000	B	2030		1980	B	2070		2320	B	2250	B	2080	B			2010		1850	B
pH (Field Measurement)			6.03		5.82		6.05		6.91		4.62		5.88		5.83		5.84		6.00		5.90		5.68		5.44	
Total Dissolved Solids			2980		3300		3240		3230		3050		3240		3200		3300		3120				3270		3120	
APPENDIX IV CONSTIUENTS																										
Antimony	0.006 mg/L	MCL	ND		ND		ND	J	ND	JB	ND		ND	JB	0.00396	B	ND	JB			ND	JB	ND	J	NA	
Arsenic	0.0144 mg/L	Background	ND	J	ND	J	ND	JB	ND	J	ND	J	ND	JB	ND	J	ND	JB			ND	J	ND	J	ND	J
Barium	2.0 mg/L	MCL	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J	ND	J			ND	J	ND	J	NA	
Beryllium	0.004 mg/L	MCL	ND		ND	J	ND		ND		ND		ND		ND		ND				ND		NA		NA	
Cadmium	0.005 mg/L	MCL	ND		ND		ND		ND		ND	J	ND	J	ND		ND				ND		NA		NA	
Chromium	0.1 mg/L	MCL	ND		ND	J	ND	JB	ND		ND		ND		ND		ND	J			ND	J	ND		NA	
Cobalt	0.009 mg/L	Background	0.158		0.113		0.126		0.108		0.0836		0.0602		0.121		0.139				0.0412		0.0704		0.114	
Fluoride	4.0 mg/L	MCL	ND	J	ND	J	ND		ND	J	ND	J	ND	J	ND	JB	ND	J			ND	J	ND	J	ND	J
Lead	0.015 mg/L	CCR Rule Value	ND		ND	J	ND	J	ND	J	ND	J	ND		ND		ND	J			ND	J	ND	J	NA	
Lithium	0.040 mg/L	CCR Rule Value	ND		ND		0.0141	J	0.0149	J	0.0133	J	0.0109	J	0.0129	J	0.0124	J			ND		0.0102	J	0.0147	J
Mercury	0.002 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND		ND				ND		NA		NA	
Molybdenum	0.1 mg/L	CCR Rule Value	ND		ND		ND		ND		ND		ND		ND	J	ND				ND		ND		ND	
Radium 226 + Radium 228	5.0 pCi/L	MCL	ND		ND		ND		ND		ND		0.384		0.372		0.506				0.721		0.472		0.625	
Selenium	0.05 mg/L	MCL	ND		ND		ND		ND		ND		ND		ND	J	ND	JB			ND		ND		NA	
Thallium	0.002 mg/L	MCL	ND		ND	J	ND	J	ND		ND		ND		ND	J	ND				ND		ND		NA	

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WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)

MW-10

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																					
			6/30/2019		11/4/2019		4/22/2020		10/13/2020		5/13/2021		10/1/2021		4/27/22022		9/27/2022		4/26/2023		10/3/2023		4/16/2024		9/30/2024	
			Assessment																							
Boron			ND	D2 U	ND	U D2	0.28		0.39		0.31		0.70		0.43		0.60		0.66		0.47		0.35		0.46	
Calcium			369	D1	409	D1	415	D1	404	D1	401	D1	396	D1	391	D1	483	D1	448	D1	411	D1	410	D1	437	D1
Chloride			80.1	D	143	D	68.6	D	89.2	D	73.2	D	98.8	D	57.9		61.1		16.5	D2	59.2		61.5		62.3	
Fluoride	4.0 mg/L	MCL	ND	U	ND	U	<0.20		<0.20		<0.20		<0.20		<0.20	U	<0.20	U	<0.2	U	<0.20	U	<0.20	U	<0.20	U
Sulfate			2440	D	553	D	3580	D	1380	D	1240	D	1360	D	1420	D	2660	D1	536	D2	4180	D	2090	A-01,D	1960	D
pH (Field Measurement)			6.01		5.53		6.26		6.16		6.59		5.84		6.25		6.1		5.98		5.71		5.89		5.92	
Total Dissolved Solids			2980		2960		3170		3290		3300		3310		3160		3220		3100		3180		2540		3210	
APPENDIX IV CONSTIUENTS																										
Antimony	0.006 mg/L	MCL	ND	U	ND	U	<0.005		<0.005		<0.005		<0.005		<0.005	U	<0.005	U,V1	<0.005	U	<0.005	U	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	0.0009	J	0.0025		0.0011		0.0009	J	0.0013		0.0036		0.0009	J	0.0034		0.0006	J	0.002		0.0013		0.0025	
Barium	2.0 mg/L	MCL	0.009		0.01		0.008		0.010		0.010		0.009		0.004		0.010		0.009		0.009		0.007		0.009	
Beryllium	0.004 mg/L	MCL	ND	U	ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U,V1	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	0.0001	J	ND	U	<0.0010		<0.0010		<0.0010		<0.0010		0.0001	J	<0.0010	U	<0.001	U	<0.0010	U	0.0001	J	0.0001	J
Chromium	0.1 mg/L	MCL	ND	U	ND	U	<0.0020		0.0007	J	0.0010	B, J	<0.0020		0.0008	J	0.0006	J	<0.002	U	<0.0020	U	<0.0020	U	0.0006	J
Cobalt	0.009 mg/L	Background	0.110		0.108		0.082		0.078		0.064		0.092		0.022		0.108		0.116		0.064		0.066		0.082	
Fluoride	4.0 mg/L	MCL	ND	U	ND	U	<0.20		<0.20		<0.20		<0.20		<0.20	U	<0.20	U	<0.2	U	<0.20	U	<0.20	U	<0.20	U
Lead	0.015 mg/L	CCR Rule Value	ND	U	ND	U	<0.002		<0.002		<0.002		<0.002		<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.009	J	ND	U	0.006	J	0.008	J	0.006	J	0.008	J	0.006	J	0.009	V1,J	0.009	J	0.009	J	0.01	D2, J	0.007	J
Mercury	0.002 mg/L	MCL	ND	U	ND	U	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	U	<0.0005	U	<0.000005	UJ	<0.000005	U	0.0000034	J	4.1	J
Molybdenum	0.1 mg/L	CCR Rule Value	ND	U	0.003	J	<0.01		<0.01		<0.01		<0.01		<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U
Radium 226 Radium 228	5.0 pCi/L	MCL	1.2		0.11		0.414		0.944		1.40		0.378		0.924	J	2.5	J	1.2	J	0.915	J+	0.298	J	0.705	
Selenium	0.05 mg/L	MCL	ND	U	ND	U	<0.003		<0.003		<0.003		<0.003		<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	ND	U	0.0001	J	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = Coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
J+ = Qualified as estimated potential high bias during data review.
MCL = maximum contaminant level
NA = not analyzed
ND = Not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)

MW-10

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE			
			4/29/2025		9/24/2025	
			Assessment			
Boron			0.39		0.42	
Calcium			471	D1	481	D1
Chloride			51.1		82.4	
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	U
Sulfate			1710	D	2150	D
pH (Field Measurement)			5.98		5.91	
Total Dissolved Solids			1910		2950	
APPENDIX IV CONSTIUENTS						
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	0.0016		0.0043	
Barium	2.0 mg/L	MCL	0.008		0.010	
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	0.0001	J	<0.0010	U
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U
Cobalt	0.009 mg/L	Background	0.079		0.089	
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	U
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.007	J	0.007	J
Mercury	0.002 mg/L	MCL	<0.000005	U	<0.000005	U
Molybdenum	0.1 mg/L	CCR Rule Value	<0.01	U	<0.01	U
Radium 226	5.0 pCi/L	MCL	2.080		1.46	
Radium 228						
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	<0.0020	U	<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = Coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
J+ = Qualified as estimated potential high bias during data review.
MCL = maximum contaminant level
NA = not analyzed
ND = Not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-4D

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																							
			11/2/2018		6/28/2019		11/8/2019		4/22/2020		10/13/2020		5/12/2021		9/29/2021		4/27/2022		9/27/2022		4/26/2023		10/2/2023		4/17/2024	
			Characterization																							
Boron			6.60		8.09	D2	9.11	D2	10.2	D1	9.39	D1	9.29	D1	8.69	D1,M1	10.3	D1	11.3	D1	9.48	D1	8.76	D1	7	D1
Calcium			607		635	D1	628	D1	714	D1	659	D1	711	D1	608	D1,M3	678	D1	740	D1	721	D1	968	D1	633	D1
Chloride			676	B	826	D	537	D	1280.0	D	1210	D	819	D	1570	D	1110	D	781	D	289	D2	934	D	1250	D
Fluoride	4.0 mg/L	MCL	ND	J	ND	DU	0.21		0.26		0.23		0.26		0.26		<0.20	U	<0.20	U	<2.00	D2,U	0.22		0.25	
Sulfate			1720	B	1330	D	1100	D	2650	D	1260	D	1670	D	985	D	2260		2380	D1	641	D2	2460	D	4540	D
pH (Field Measurement)			6.05		6.46		6.34		6.31		6.47		6.22		6.28		7.34		6.59		6.46		6.18		6.11	
Total Dissolved Solids			4180		4140		3500		4690		4410		4670		4580	C6	4210		4100		3590		4200		3750	
APPENDIX IV CONSTITUENTS																										
Antimony	0.006 mg/L	MCL	ND	JB	ND	U	ND	U	<0.005		<0.005		<0.005		<0.005		<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	ND	JB	0.0032		0.0032		0.0039		0.0037		0.0031		0.0029		0.003		0.0028		0.0045		0.0033		0.0037	
Barium	2.0 mg/L	MCL	ND	J	0.016		0.016		0.016		0.018		0.016		0.013		0.015		0.015		0.021		0.015		0.013	
Beryllium	0.004 mg/L	MCL	ND	J	ND	U	ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0040	D2, U
Cadmium	0.005 mg/L	MCL	ND		ND	U	ND	U	<0.0010		<0.0010		<0.0010		<0.0010		<0.0010	U	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U
Chromium	0.1 mg/L	MCL	0.00591	B	0.0006	J	ND	U	<0.0020		0.0010	J	0.0009	B, J	<0.0020		0.0013	J	<0.0020	U	0.0010	J	<0.0020	U	<0.0020	U
Cobalt	0.009 mg/L	Background	0.0122		0.010		0.015		0.010		0.012		0.009		0.010		0.009		0.011		0.022		0.025		0.058	
Fluoride	4.0 mg/L	MCL	ND	J	ND	DU	0.21		0.26		0.23		0.26		0.26		<0.20	U	<0.20	U	<2.00	D2,U	0.22		0.25	
Lead	0.015 mg/L	CCR Rule Value	ND	J	ND	U	ND	U	<0.002		0.0005	J	<0.002		<0.002		<0.002	U	<0.002	U	0.0006	J	<0.002	U	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.181		0.14		0.14		0.16		0.17		0.16		0.13	M1	0.18		0.17		0.12		0.16		0.15	D2
Mercury	0.002 mg/L	MCL	ND		ND	U	ND	U	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	U	<0.0005	U	<0.000005	UJ	<0.000005	UJ	0.0000025	J, JU
Molybdenum	0.1 mg/L	CCR Rule Value	0.0185		0.007	J	0.01		0.02		0.01		0.006	J	0.007	J	0.007	J	0.007	J	0.008	J	0.008	J	0.007	J
Radium 226 Radium 228	5.0 pCi/L	MCL	1.58		2.7		1.86		0.851		1.71		1.07		1.05		1.07	J	1.83	J	1.22	J	1.98	J	1.65	J
Selenium	0.05 mg/L	MCL	ND	J	0.001	J	0.001	J	0.001	J	<0.003		0.001	J	0.001	J	0.001	J	0.001	J	0.001	J	0.001	J	<0.003	U
Thallium	0.002 mg/L	MCL	ND	J	ND	U	ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U	0.0001	J	<0.0020		<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = compound was found in the blank and sample.
CCR = coal combustion residuals
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-4D

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																	
			10/1/2024		4/28/2025		9/23/2025													
			Characterization																	
Boron			8.05	D1	3.14	D1	6.38	D1												
Calcium			644	D1	554	D1	696	D1												
Chloride			479	D	244	D	549	D												
Fluoride	4.0 mg/L	MCL	0.25		0.23		0.26													
Sulfate			1790	D	1610	D	1880	D												
pH (Field Measurement)			6.36		6.3		6.33													
Total Dissolved Solids			3890		2200		2810													
APPENDIX IV CONSTITUENTS																				
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U	<0.005	U												
Arsenic	0.0144 mg/L	Background	0.0044		0.0029		0.0058													
Barium	2.0 mg/L	MCL	0.020		0.014		0.015													
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U	<0.0020	U												
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U	0.0001	J												
Chromium	0.1 mg/L	MCL	0.0013	J	<0.0020	U	0.0011	J												
Cobalt	0.009 mg/L	Background	0.035		0.068		0.023													
Fluoride	4.0 mg/L	MCL	0.25		0.23		0.26													
Lead	0.015 mg/L	CCR Rule Value	0.0009	J	<0.002	U	0.001	J												
Lithium	0.040 mg/L	CCR Rule Value	0.16		0.07		0.15													
Mercury	0.002 mg/L	MCL	15.4		<0.000005	U	<0.000005	U												
Molybdenum	0.1 mg/L	CCR Rule Value	0.01		0.005	J	0.008	J												
Radium 226 Radium 228	5.0 pCi/L	MCL	1.55		2.12		1.42													
Selenium	0.05 mg/L	MCL	0.001	J	<0.003	U	0.001	J												
Thallium	0.002 mg/L	MCL	0.0001	J	<0.0020	U	0.0002	J												

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
CCR = coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
M1 = Matrix spike recovery was high; the method control sample recovery was acceptable.
MCL = maximum contaminant level
ND = Not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.
UJ = Non-detect result was qualified as estimated at the reporting limit during data review.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-102

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																					
			11/2/2018		6/27/2019		11/8/2019		4/22/2020		10/13/2020		5/12/2021		9/29/2021		4/28/2022		9/29/2022		4/25/2023		10/2/2023	
			Characterization																					
Boron			ND	J	0.108	JB	ND	D2,M4,U	<0.10		<0.10		<0.10		<0.10		<0.10	M1,M2,J+	<0.10	U	<0.10	U	<0.10	U
Calcium			81.3		80.9		85.1	D2	94.5	D1	86.8	D2	82.8	D	84.1	D1	88.4	M1,D1	97.8	D1	84.9	D1	85.5	D1
Chloride			33.3	B	33.3		35.3		33.1		32.9	D2	39.7	D	36.2	M2	34.2		31.8	H2	14.8	D2	31.2	
Fluoride	4.0 mg/L	MCL	ND	J	0.343		0.36		0.34		0.30		0.33		0.33		0.29		0.29		0.32		0.3	
Sulfate			265	B	279		307	D	259	D	261	D	308	D	433	D,M2	245	D	302	H2	150	D2	405	D
pH (Field Measurement)			6.58		6.7		6.61		6.48		6.33		6.49		6.58		6.59		6.67		6.84		7.42	
Total Dissolved Solids			781		760		728		724		836		734		818		792		1040		808		808	
APPENDIX IV CONSTITUENTS																								
Antimony	0.006 mg/L	MCL	ND	JB	0.000101	JB	ND	U	<0.005		<0.005		<0.005		<0.005		<0.005	U	<0.005	U	<0.005	U	<0.005	U
Arsenic	0.0144 mg/L	Background	ND	JB	0.00414	J	0.0031		0.0047		0.0036		0.0038		0.0042		0.0042		0.0038		0.0037		0.0049	
Barium	2.0 mg/L	MCL	ND	J	0.0596	JB	0.059		0.051		0.058		0.053		0.049		0.047		0.046		0.046		0.051	
Beryllium	0.004 mg/L	MCL	ND		0.000134	J	ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U,V1	<0.002	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	ND		ND		ND	U	<0.0010		<0.0010		<0.0010		<0.0010		<0.0010	U	<0.0010	U	<0.001	U	0.0002	J
Chromium	0.1 mg/L	MCL	0.00321	B	0.00140	JB	0.0006	J	<0.0020		<0.0020		0.0011	B,J	<0.0020		<0.002	U	<0.002	U	0.0006	J	0.0024	
Cobalt	0.009 mg/L	Background	0.00263	J	0.00286	JB	ND	U	<0.004		<0.004		<0.004		<0.004		<0.004	U	<0.004	U	<0.004	U	0.004	
Fluoride	4.0 mg/L	MCL	ND	J	0.343		0.36		0.34		0.30		0.33		0.33		0.29		0.29		0.32		0.3	
Lead	0.015 mg/L	CCR Rule Value	ND	J	0.000164	J	ND	U	<0.002		<0.002		<0.002		<0.002		<0.002	U	<0.002	U	<0.002	U	0.002	
Lithium	0.040 mg/L	CCR Rule Value	ND		ND		ND	U	<0.02		<0.02		<0.02		<0.02		<0.02	U	<0.02	U,V1	<0.02	U	<0.02	U
Mercury	0.002 mg/L	MCL	ND		ND		ND	U	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	U	<0.0005	U	<0.000005	U	<0.000005	U
Molybdenum	0.1 mg/L	CCR Rule Value	0.0111		0.00112	J	0.002	J	<0.01		<0.01		<0.01		<0.01		<0.01	U	<0.01	U	<0.01	U	<0.01	U
Radium 226 Radium 228	5.0 pCi/L	MCL	1.22		0.187	U	0.425		0.084		0.741		0.497		0.899		1.14	J	0.652	J	0.313	J	0.821	J
Selenium	0.05 mg/L	MCL	ND		ND		ND	U	<0.003		<0.003		<0.003		<0.003		<0.003	U	<0.003	U	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	ND		ND		ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	V1,U	<0.0020	U	<0.002	U	0.0002	J

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
D1 = Sample required dilution due to high concentration of target analyte
D2 = Sample required dilution due to matrix interference
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-102

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE															
			4/16/2024		9/30/2024		4/28/2025		9/23/2025									
			Characterization															
Boron			<0.10	U	<0.10	U, M2	<0.10	U	<0.10	U, M2								
Calcium			93.3	D1	90.2	D1, M3	82.0	D1	90.5	D1, M1								
Chloride			34.0		31.9		31.9		32.1									
Fluoride	4.0 mg/L	MCL	0.32		0.32		0.29		0.30									
Sulfate			836	D	300	D	304	D	311	D								
pH (Field Measurement)			6.94		6.96		6.75		6.61									
Total Dissolved Solids			1060		868		800		828									
APPENDIX IV CONSTITUENTS																		
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U	<0.005	U	<0.005	U								
Arsenic	0.0144 mg/L	Background	0.0041		0.0041		0.0047		0.0029									
Barium	2.0 mg/L	MCL	0.042		0.039		0.043		0.040									
Beryllium	0.004 mg/L	MCL	<0.0040	U	<0.0020	U	<0.0020	U	<0.0020	U								
Cadmium	0.005 mg/L	MCL	0.0003	J	<0.0010	U	<0.0010	U	<0.0010	U								
Chromium	0.1 mg/L	MCL	0.0007	J	0.0010	J	<0.0020	U	<0.0020	U								
Cobalt	0.009 mg/L	Background	<0.004	U	<0.004	U	<0.004	U	<0.004	U								
Fluoride	4.0 mg/L	MCL	0.32		0.32		0.29		0.30									
Lead	0.015 mg/L	CCR Rule Value	0.0007	J	<0.002	U	<0.002	U	<0.002	U								
Lithium	0.040 mg/L	CCR Rule Value	<0.04	D2, V1, U	<0.02	U	<0.02	U	<0.02	U								
Mercury	0.002 mg/L	MCL	0.0000024	J	<0.000005	U, V1	<0.000005	U	<0.000005	U								
Molybdenum	0.1 mg/L	CCR Rule Value	<0.01	U	<0.01	U	<0.01	U	<0.01	U								
Radium 226 Radium 228	5.0 pCi/L	MCL	1.260	J	0.811		1.45		0.824									
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U	<0.003	U	<0.003	U								
Thallium	0.002 mg/L	MCL	0.0004	J	<0.0020	U	<0.0020	U	<0.0020	U								

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
CCR = coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
H2 = Initial analysis within holding time. Reanalysis was past holding time.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
J+ =Qualified as estimated potential high bias during data review.
M1 = Matrix spike recovery was high; the method control sample recovery was acceptable.
M2 = Matrix spike recovery was low; the method control sample recovery was acceptable.
MCL = maximum contaminant level
ND = Not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-104

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																			
			11/2/2018		6/27/2019		11/8/2019		4/22/2020		10/13/2020		5/12/2021		9/29/2021		4/28/2022		9/30/2022		4/25/2023		10/2/2023	
			Characterization																					
Boron			ND	J	0.0765	JB	ND	U D2	<0.10		<0.10		<0.10		<0.10		<0.10	U	<0.10	M2,U	<0.10	U	<0.10	M2,U
Calcium			227		221		257	D1	258	D1	267	D1	273	D	271	D1	312	D1	426	D1,M3	319	D1	296	D1,M3
Chloride			11.8	B	12.7		13.2		13.0		11.4		13.5		12.1		12.2		10.8		10.7		11.2	M2,J-
Fluoride	4.0 mg/L	MCL	ND	J	0.129	J	ND	U	<0.20		<0.20		<0.20		<0.20		<0.20	U	<0.20	U	<0.20	U	<0.20	M2,UJ
Sulfate			639	JB	513		587	D M1	662	D	628	D	690	D	1290	D	630	U	1070		1710	D	1080	D, M3
pH (Field Measurement)			6.43		6.87		6.64		6.50		6.41		6.44		6.51		6.24		6.77		6.81		8.55	
Total Dissolved Solids			1410		1360		1490		1380		1590		1460		1610		1550		1640		1620		1760	
APPENDIX IV CONSTITUENTS																								
Antimony	0.006 mg/L	MCL	ND	JB	0.000173	JB	ND	U	<0.005		<0.005		<0.005		<0.005		<0.005	U	<0.005	UJ	<0.005	U	<0.005	M2, U
Arsenic	0.0144 mg/L	Background	ND	JB	0.00174	J	0.0027		0.0010		0.0006	J	0.0005	J	0.0007	J	0.0004	J	0.0006	M2, J	0.0010		0.0027	
Barium	2.0 mg/L	MCL	ND	J	0.0734	JB	0.064		0.050		0.047		0.035		0.034		0.031		0.034	M2,J-	0.034		0.046	
Beryllium	0.004 mg/L	MCL	ND	J	0.000142	J	ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	UJ	<0.002	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	ND		ND		ND	U	<0.0010		<0.0010		<0.0010		<0.0010		<0.0010	U	<0.0010	M2,UJ	<0.001	U	<0.0010	U
Chromium	0.1 mg/L	MCL	0.00361	B	0.0178	B	0.0037		0.0007	J	<0.0020		0.0010	B, J	<0.0020		<0.0020	U	<0.0020	M2,U	0.0009	J	0.0043	
Cobalt	0.009 mg/L	Background	0.00388	J	0.00164	JB	ND	U	<0.004		<0.004		<0.004		<0.004		<0.004	U	<0.004	M2,U	<0.004	U	<0.004	U
Fluoride	4.0 mg/L	MCL	ND	J	0.129	J	ND	U	<0.20		<0.20		<0.20		<0.20		<0.20	U	<0.20	U	<0.20	U	<0.20	M2,UJ
Lead	0.015 mg/L	CCR Rule Value	ND	J	0.000785	J	0.002		<0.002		<0.002		<0.002		<0.002		<0.002	U	<0.002	M2,UJ	<0.002	U	0.003	
Lithium	0.040 mg/L	CCR Rule Value	0.0326	J	0.0261	J	0.03		0.02		0.03		0.02		0.02		0.02		0.02	M2,J-	0.03		0.03	
Mercury	0.002 mg/L	MCL	ND		ND		ND	U	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	U	<0.0005	U	<0.000005	U	<0.000005	U
Molybdenum	0.1 mg/L	CCR Rule Value	0.0124		0.00319	J	ND	U	0.003	J	<0.01		<0.01		<0.01		<0.01	U	<0.01	M2,U	<0.01	U	<0.01	U
Radium 226 + Radium 228	5.0 pCi/L	MCL	2.16		0.952		1.24		0.823		1.88		1.15		1.78		1.32	J	1.83	J	1.72	J	2.01	J-
Selenium	0.05 mg/L	MCL	ND		ND		ND	U	<0.003		<0.003		<0.003		<0.003		<0.003	U	<0.003	M2,U	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	ND		ND		ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	M2,UJ	<0.002	U	<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J- = Qualified as estimated potential low bias during data review.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
M1 = Matrix spike recovery was high; the method control sample recovery was acceptable.
M2 = Matrix spike recovery was low; the method control sample recovery was acceptable.
M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit.
UJ = Non-detect result was qualified as estimated at the reporting limit during data review.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-104

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE													
			4/16/2024		9/30/2024		4/28/2025		9/23/2025							
			Characterization													
Boron			<0.10	U	<0.10	M2,U	<0.10	U	<0.10	U						
Calcium			288	D1	327	D1,M3	99.6	D1	361	D1						
Chloride			12.4		11.4		12.2		11.4							
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	U	<0.20	U	<0.20	U						
Sulfate			1920	D	904	D	890	D	909	D						
pH (Field Measurement)			6.99		6.88		6.65		6.57							
Total Dissolved Solids			1150		2070		1220		1880							
APPENDIX IV CONSTITUENTS																
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U	<0.005	U	<0.005	U						
Arsenic	0.0144 mg/L	Background	0.0004	J	0.0004	J	0.0005	J	0.0010							
Barium	2.0 mg/L	MCL	0.028		0.031		0.028		0.030							
Beryllium	0.004 mg/L	MCL	<0.0040	U	<0.0020	U	<0.0020	U	<0.0020	U						
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U						
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U	<0.0020	U	0.0013	J						
Cobalt	0.009 mg/L	Background	<0.004	U	<0.004	U	<0.004	U	<0.004	U						
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	U	<0.20	U	<0.20	U						
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U	<0.002	U	0.001	J						
Lithium	0.040 mg/L	CCR Rule Value	0.03	D2, V1, J	0.03		0.03		0.03							
Mercury	0.002 mg/L	MCL	0.0000145	J-	<0.000005	U, V1	<0.000005	U	<0.000005	U						
Molybdenum	0.1 mg/L	CCR Rule Value	<0.01	U	<0.01	U	<0.01	U	<0.01	U						
Radium 226 Radium 228	5.0 pCi/L	MCL	1.41	J	1.50		1.39		0.783							
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U	<0.003	U	<0.003	U						
Thallium	0.002 mg/L	MCL	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U						

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
CCR = coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J- = Qualified as estimated potential low bias during data review.
J = Result is less than the Reporting Limit but greater than or equal to the method detection limit and the concentration is an approximate value.
M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
MCL = maximum contaminant level
ND = Not detected at or above method detection limit
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-105

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																
			11/2/2018		6/27/2019		11/7/2019		4/22/2020		10/13/2020		5/12/2021		9/29/2021		4/28/2022	
			Characterization															
Boron			ND	J	0.348	JB	ND	D2,M4,U	0.33		0.37		0.36		0.34		WELL ABANDONED	
Calcium			124		58.6		72.0	D2,M1	60.4	D1	49.2	D2	59.7	D1	59.4	D1		
Chloride			10.5	B	9.34		10.1		9.5		8.7		9.0		9.1			
Fluoride	4.0 mg/L	MCL	ND	J	0.638		0.55		0.67		0.61		0.60		0.61			
Sulfate			216	JB	37.6		73.7	D	91.8	D	75.4	D	157	D	176	D		
pH (Field Measurement)			6.75		7.70		7.51		7.78		8.02		7.21		7.27			
Total Dissolved Solids			747		548		612		398		550		644		626			
APPENDIX IV CONSTITUENTS																		
Antimony	0.006 mg/L	MCL	ND	JB	0.000186	JB	ND	U	<0.005		<0.005		<0.005		<0.005			
Arsenic	0.0144 mg/L	Background	ND	JB	0.00186	J	ND	U	<0.0010		<0.0010		<0.0010		<0.0010			
Barium	2.0 mg/L	MCL	0.207		0.288	B	0.326		0.255		0.256		0.267		0.260			
Beryllium	0.004 mg/L	MCL	ND	J	0.000398	J	ND	U	<0.0020		<0.0020		<0.0020		<0.0020			
Cadmium	0.005 mg/L	MCL	ND		ND		ND	U	<0.0010		<0.0010		<0.0010		<0.0010			
Chromium	0.1 mg/L	MCL	0.00388	B	0.00784	B	ND	U	<0.0020		<0.0020		0.0011	B, J	<0.0020			
Cobalt	0.009 mg/L	Background	0.00488	J	0.00435	JB	ND	U	<0.004		<0.004		<0.004		<0.004			
Fluoride	4.0 mg/L	MCL	ND	J	0.638		0.55		0.67		0.61		0.60		0.61			
Lead	0.015 mg/L	CCR Rule Value	ND	J	0.00326	J	ND	U	<0.002		<0.002		<0.002		<0.002			
Lithium	0.040 mg/L	CCR Rule Value	0.0141	J	0.0278	J	0.03	M1	0.02		0.02		0.02		0.02			
Mercury	0.002 mg/L	MCL	ND		ND		ND	U	<0.0005		<0.0005		<0.0005		<0.0005			
Molybdenum	0.1 mg/L	CCR Rule Value	0.0131		0.00231	J	0.002	J	0.002	J	0.002	J	0.002	J	0.002	J		
Radium 226 / Radium 228	5.0 pCi/L	MCL	1.08		0.558	U	0.829		1.15		1.30		2.14		0.380			
Selenium	0.05 mg/L	MCL	ND		ND		ND	U	<0.003		<0.003		<0.003		<0.003			
Thallium	0.002 mg/L	MCL	ND		0.0000510	J	ND	U	<0.0020		<0.0020		<0.0020		<0.0020			

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = compound was found in the blank and sample.
CCR = coal combustion residuals
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
M1 = Matrix spike recovery was high; the method control sample recovery was acceptable.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit

WILSON LANDFILL - CCR ANALYTICAL SUMMARY
MW-105R

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE															
			4/28/2022		9/29/2022		4/25/2023		10/2/2023		4/16/2024		9/30/2024		4/28/2025		9/23/2025			
			Characterization																	
Boron			<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U		
Calcium			214	D1	204	D1	196	D1	182	D1	198	D1	190	D1	183	D1	205	D1		
Chloride			12.2	J+	11.5		11.2		11.9		11.8		13.0		11.9		12.1			
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	UJ	0.20		<0.20	U	0.21		<0.20	U	<0.20	U	<0.20	U		
Sulfate			439	D,M1,J+	410.0	D,J-	769	D	428	D	899	D	342	D1	333	D	339	D		
pH (Field Measurement)			6.38		6.71		6.84		6.17		6.96		6.98		6.78		6.63			
Total Dissolved Solids			1800		1010		1440		1060		1010		1020		1810		1030			
APPENDIX IV CONSTITUENTS																				
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U,V1	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U		
Arsenic	0.0144 mg/L	Background	0.0016		0.0011		0.0008	J	0.0036		0.0016		0.0021		0.0017		0.0009	J		
Barium	2.0 mg/L	MCL	0.033		0.032		0.025		0.033		0.021		0.020		0.020		0.018			
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U,V1	<0.002	U	<0.0020	U	<0.0040	U, D2	<0.0020	U	<0.0020	U	<0.0020	U		
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U		
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		
Cobalt	0.009 mg/L	Background	<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U		
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	UJ	0.20		<0.20	U	0.21		<0.20	U	<0.20	U	<0.20	U		
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U	<0.002	U	<0.002	U	0.002		<0.002	U	0.003		0.001	J		
Lithium	0.040 mg/L	CCR Rule Value	0.03		0.03		0.03		0.03		0.03	D2, M2, V1, J, J-	0.03		0.03		0.03			
Mercury	0.002 mg/L	MCL	<0.0005	U	<0.0005	U	<0.000005	U	<0.000005	U	0.0000038	J	<0.000005	U, V1	<0.000005	U	<0.000005	U		
Molybdenum	0.1 mg/L	CCR Rule Value	0.005	J	0.002	J	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U		
Radium 226 + Radium 228	5.0 pCi/L	MCL	1.86	J	1.35	J	2.49	J	1.85	J	2.53	J	2.33		1.75		1.07			
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U		
Thallium	0.002 mg/L	MCL	0.0001	V1,J	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = compound was found in the blank and sample.
CCR = coal combustion residuals
D1 = Sample required dilution due to high concentration of target analyte.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
J+ = Potential high bias
M1 = Matrix spike recovery was high; the method control sample recovery was acceptable.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit.
UJ = Non-detect result was qualified as estimated at the reporting limit during data review.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-110

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																					
			11/2/2018		6/27/2019		11/7/2019		4/22/2020		10/13/2020		5/12/2021		9/29/2021		4/28/2022		9/28/2022		4/25/2023		10/2/2023		4/16/2024	
			Characterization																					
Boron			ND	J	0.0716	JB	ND	U D2	<0.10		<0.10		<0.10		<0.10		<0.10	U	<0.10	U	<0.10	U	<0.10	M2,U	<0.10	U
Calcium			33.8		38.9		47.6	D2	39.9	D1	37.9	D2	39.7	D1	33.8	D1	40.7	D1	38.3	D1	37.7	D1	39.3	D1, M1	47.1	D1
Chloride			14.4	B	11.1		10.0		11.5		10.5		11.2		10.9		11.4		9.7		11.3		9.7		11.7	
Fluoride	4.0 mg/L	MCL	ND	J	0.229		0.23		0.28		0.24		0.26		0.27		0.23		0.24		0.27		0.24		0.28	
Sulfate			102	B	70.0		61.2	D	71.7	D	56	D	75.2	D	101	D	94.6	D	68.4		77.7		68.4		82.5	
pH (Field Measurement)			6.93		6.92		6.83		6.89		6.87		6.43		6.88		6.19		6.65		6.71		6.84		6.39	
Total Dissolved Solids			333		296		348		208		278		302		260		2590		270		336		278		316	
APPENDIX IV CONSTITUENTS																								
Antimony	0.006 mg/L	MCL	ND	JB	0.000130	JB	ND	U	<0.005		<0.005		<0.005		<0.005		<0.005	U	<0.005	U,V1	<0.005	U	<0.005	U	0.003	J
Arsenic	0.0144 mg/L	Background	ND	JB	0.00118	J	ND	U	0.0019		0.0011		0.0010		0.0018		0.0029		0.0015		0.0023		0.0040	J	0.0062	J
Barium	2.0 mg/L	MCL	ND	J	0.0535	JB	0.051		0.051		0.053		0.054		0.046		0.057		0.050		0.057		0.068		0.076	J
Beryllium	0.004 mg/L	MCL	ND		ND		ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.0020	U	<0.0020	U,V1	<0.002	U	<0.0020	U	<0.0020	U
Cadmium	0.005 mg/L	MCL	ND		ND		ND	U	<0.0010		<0.0010		<0.0010		<0.0010		<0.0010	U	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U
Chromium	0.1 mg/L	MCL	0.00967	B	0.00217	JB	ND	U	0.0007	J	<0.0020		0.0009	B,J	<0.0020		<0.0020	U	<0.0020	U	<0.002	U	0.0016	J	<0.0020	U
Cobalt	0.009 mg/L	Background	0.00240	J	0.000827	JB	ND	U	<0.004		<0.004		<0.004		<0.004		<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U
Fluoride	4.0 mg/L	MCL	ND	J	0.229		0.23		0.28		0.24		0.26		0.27		0.23		0.24		0.27		0.24		0.28	
Lead	0.015 mg/L	CCR Rule Value	ND	J	0.000539	J	ND	U	<0.002		<0.002		<0.002		<0.002		<0.002	U	<0.002	U	<0.002	U	0.001	J	<0.002	U
Lithium	0.040 mg/L	CCR Rule Value	0.0122	J	ND		0.006	J	<0.02		<0.02		<0.02		<0.02		<0.02	U	<0.02	V1,U	<0.02	U	0.005	J	<0.02	U
Mercury	0.002 mg/L	MCL	ND		ND		ND	U	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	U	<0.0005	U	<0.000005	U	0.0000026	J	<0.000005	U
Molybdenum	0.1 mg/L	CCR Rule Value	ND	J	ND		ND	U	<0.01		<0.01		<0.01		<0.01		<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U
Radium 226 Radium 228	5.0 pCi/L	MCL	1.19		0.816		1.10		1.53		1.49		1.37		1.36		0.594	J	1.69	J	0.546	J	1.41	J	1.54	J
Selenium	0.05 mg/L	MCL	ND		ND		ND	U	<0.003		<0.003		<0.003		<0.003		<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Thallium	0.002 mg/L	MCL	ND		ND		ND	U	<0.0020		<0.0020		<0.0020		<0.0020		<0.002	V1,U	<0.002	U	<0.002	U	<0.0020	U	<0.0020	U

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
D2 = Sample required dilution due to matrix interference.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY (continued)
MW-110

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE															
			9/30/2024		4/28/2025		9/23/2025											
			Characterization															
Boron			<0.10	U	<0.10	U	<0.10	U										
Calcium			39.8	D1	54.2	D1	3.83											
Chloride			10.2		10.4		9.9											
Fluoride	4.0 mg/L	MCL	0.26		0.24		0.31											
Sulfate			69.1		72.0		66.0											
pH (Field Measurement)			6.73		5.77		6.77											
Total Dissolved Solids			304		288		272											
APPENDIX IV CONSTITUENTS																		
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U	<0.005	U										
Arsenic	0.0144 mg/L	Background	0.0042		0.0023		0.0027											
Barium	2.0 mg/L	MCL	0.063		0.059		0.057											
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U	<0.0020	U										
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U	<0.0010	U										
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U	0.0006	J										
Cobalt	0.009 mg/L	Background	<0.004	U	<0.004	U	<0.004	U										
Fluoride	4.0 mg/L	MCL	0.26		0.24		0.31											
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U	<0.002	U										
Lithium	0.040 mg/L	CCR Rule Value	<0.02	U	<0.02	U	<0.02	U										
Mercury	0.002 mg/L	MCL	<0.000005	U, V1	<0.000005	U	<0.000005	U										
Molybdenum	0.1 mg/L	CCR Rule Value	<0.01	U	<0.01	U	<0.01	U										
Radium 226 Radium 228	5.0 pCi/L	MCL	1.48		2.54		1.73											
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U	<0.003	U										
Thallium	0.002 mg/L	MCL	<0.0020	U	<0.0020	U	<0.0020	U										

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
CCR = coal combustion residuals
D = Results reported from dilution.
D1 = Sample required dilution due to high concentration of target analyte.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
M1 = Matrix spike recovery was high; the method control sample recovery was acceptable.
M2 = Matrix spike recovery was low; the method control sample recovery was acceptable.
MCL = maximum contaminant level
ND = Not detected at or above method detection limit.
pCi/L = picocuries per liter
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-10D

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																			
			4/27/2022		9/27/2022		4/24/2023		10/2/2023		4/17/2024		10/2/2024		4/28/2025		9/23/2025					
			Characterization																			
Boron			3.16	D2	3.11	D1	2.62	D1,M3	2.65	D1	2.73	D1	2.92	D1	2.90	M1, D1	4.03					
Calcium			482	D1	548	D1	553	D1,M3	523	D1	562	D1	544	D1	523	D1, M3	569					
Chloride			145	D	195	D	36.2	D2	208	D	419	D	168	D	145	D	255	D				
Fluoride	4.0 mg/L	MCL	0.41		0.35		0.47		0.41		0.38		0.45		0.50		0.54					
Sulfate			1150	D	1920.0	D1	389	D2	2240	D	4080	D	1580	D	1480	D	1640	D				
pH (Field Measurement)			7.11		6.67		6.44		6.37		6.50		6.22		6.32		6.32					
Total Dissolved Solids			1070		2660		2510		2870		2330		2240		2400		3150					
APPENDIX IV CONSTITUENTS																						
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	M1, U	<0.005	U				
Arsenic	0.0144 mg/L	Background	0.0029		0.0036		0.0025		0.0032		0.0025		0.0017		0.0023		0.0028					
Barium	2.0 mg/L	MCL	0.016		0.018		0.017		0.019		0.016		0.017		0.022		0.018					
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U,V1	<0.002	U	<0.0020	U	<0.0040	U	<0.0020	U	<0.0020	U	<0.0020	U				
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U				
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	L1, U				
Cobalt	0.009 mg/L	Background	0.005		<0.0040	U	0.004		<0.0040	U	0.009		0.010		0.020	M1	0.013					
Fluoride	4.0 mg/L	MCL	0.41		0.35		0.47		0.41		0.38		0.45		0.5		0.54					
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U				
Lithium	0.040 mg/L	CCR Rule Value	0.07		0.07		0.06	J-,M2	0.09		0.08	D2	0.08		0.07	M1	0.08					
Mercury	0.002 mg/L	MCL	<0.0005	U	<0.0005	U	<0.000005	U	<0.000005	U	<0.000005	U	17.2		<0.000005	U	<0.000005	U				
Molybdenum	0.1 mg/L	CCR Rule Value	0.009	J	0.004	J	0.006	J	0.004	J	0.004	J	0.004	J	0.008	M1, J	0.005	L1, J				
Radium 226 Radium 228	5.0 pCi/L	MCL	1.63		1.39	J	0.465	J	1.37	J	1.85	J	1.75		2.10		1.37					
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U				
Thallium	0.002 mg/L	MCL	<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U				

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = compound was found in the blank and sample.
CCR = coal combustion residuals
D2 = Sample required dilution due to matrix interference.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
J- =Qualified as estimated potential low bias during data review.
M2 = Matrix spike recovery was low; the method control sample recovery was acceptable.
M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - CCR ANALYTICAL SUMMARY
MW-111

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE																	
			4/28/2022		9/30/2022		4/24/2023		10/2/2023		4/16/2024		9/30/2024		4/28/2025		9/23/2025			
			Characterization																	
Boron			0.23		0.22		0.23		0.21		0.22		0.20		0.21		0.21			
Calcium			627	D1	637	D1	552	D1	510	D1	532	D1	542	D1	638	D1	487	D1		
Chloride			3.8		3.7	M2,J-	<10.0	D2, U	3.3		3.9		3.6		3.6		3.3			
Fluoride	4.0 mg/L	MCL	<0.20	U	0.24	M2,J-	0.27		0.24		0.28		<0.20	U	0.27		0.29			
Sulfate			1800	D,H2	2640	D,M2	399	D2	3210	D	4500	D	1740	D	1960	D	1720	D		
pH (Field Measurement)			6.43		6.59		7.24		6.24		6.17		6.39		6.51		6.72			
Total Dissolved Solids			304		3300		3220		3770		3330		2340		2960		2700			
APPENDIX IV CONSTITUENTS																				
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	V1,U	<0.005	U	<0.005	U	0.003000	J	<0.005	U	<0.005	U	<0.005	U		
Arsenic	0.0144 mg/L	Background	0.0027		0.0026		0.0024		0.0024		0.0024		0.0024		0.0024		0.0025			
Barium	2.0 mg/L	MCL	0.021		0.019		0.018		0.019		0.018		0.015		0.016		0.016			
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U		
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		
Cobalt	0.009 mg/L	Background	0.01100		0.011000		0.011		0.012		0.012		0.013		0.012		0.014			
Fluoride	4.0 mg/L	MCL	<0.20	U	0.24	M2,J-	0.27		0.24		0.28		<0.20	U	0.27		0.29			
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U		
Lithium	0.040 mg/L	CCR Rule Value	0.04		0.03		0.03		0.04		0.04		0.03		0.04		0.04			
Mercury	0.002 mg/L	MCL	<0.0005	U	<0.0005	UJ	<0.000005	U	<0.000005	U	<0.000005	U	<0.000005	U, V1	<0.000005	U	<0.000005	M2, U		
Molybdenum	0.1 mg/L	CCR Rule Value	0.003	J	0.003	J	0.003	J	0.003	J	0.003	J	0.003	J	0.003	J	0.002	J		
Radium 226 Radium 228	5.0 pCi/L	MCL	1.51	J	1.65	J	0.913	J	1.18	J	1.12	J	0.705		1.81		2.39			
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U		
Thallium	0.002 mg/L	MCL	0.0001	V1,U	0.0001	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
D2 = Sample required dilution due to matrix interference.
H2 = Initial analysis within holding time. Reanalysis was past holding time.
J- = Qualified as estimated potential low bias during data review.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
M2 = Matrix spike recovery was low; the method control sample recovery was acceptable.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit.
UJ = Non-detect result was qualified as estimated at the reporting limit during data review.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-112

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE															
			4/28/2022		9/30/2022		4/24/2023		10/2/2023		4/16/2024		10/2/2024		4/28/2025		9/23/2025			
			Characterization																	
Boron			0.15		0.15		0.14		0.14		0.12		0.13		0.11		0.13			
Calcium			250	D1	283	D1	246	D1	243	D1	223	D1	241	D1	195	D1	229	D1		
Chloride			51.7		3.6	H2,J-	<5.0	D2, U	3.3		3.1		3.1		2.0		2.6			
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	U	<0.20	U	<0.20	U	0.2		<0.20	U	<0.20	U	0.20			
Sulfate			512	D	602	D	157	D2	748	D	1000	D	498	D1	344	D	534	D		
pH (Field Measurement)			6.35		6.82		6.19		6.28		6.88		6.70		6.79		6.96			
Total Dissolved Solids			1040	J-, H2	1180		1000		1270		988		932		836		1080			
APPENDIX IV CONSTITUENTS																				
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U,V1	<0.005	U	<0.005	U	0.003	J	<0.005	U	<0.005	U	<0.005	U		
Arsenic	0.0144 mg/L	Background	0.0013		0.0019		0.0015		0.0017		0.0017		0.0017		0.0010		0.0017			
Barium	2.0 mg/L	MCL	0.028		0.032		0.027		0.031		0.024		0.027		0.024		0.030			
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U,V1	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U		
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		
Cobalt	0.009 mg/L	Background	0.004		0.005		0.005		0.005		0.005		0.005		<0.004	U	0.005			
Fluoride	4.0 mg/L	MCL	<0.20	U	<0.20	U	<0.20	U	<0.20	U	0.2		<0.20	U	<0.20	U	0.20			
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U		
Lithium	0.040 mg/L	CCR Rule Value	0.01	J	0.01	V1,J	0.01	J	0.01	J	0.01	J	0.01	J	0.01	J	0.01	J		
Mercury	0.002 mg/L	MCL	<0.0005	U	<0.0005	U	<0.000005	U	<0.000005	Y1,U	<0.000005	U	<0.000005	U, V1	<0.000005	U	<0.000005	U		
Molybdenum	0.1 mg/L	CCR Rule Value	0.002	J	0.002	J	0.002	J	0.002	J	0.002	J	0.002	J	0.002	J	0.002	J		
Radium 226 Radium 228	5.0 pCi/L	MCL	0.173	J	1.22	J	0.753	J	1.14	J	0.769	J	1.58		2.00		1.24			
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U		
Thallium	0.002 mg/L	MCL	<0.0020	V1,U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
H2 = Initial analysis within holding time. Reanalysis was past holding time.
J- = Potential low bias
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-113

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE															
			4/28/2022		9/28/2022		4/24/2023		10/2/2023		4/16/2024		9/30/2024		4/28/2025		9/23/2025			
			Characterization																	
Boron			<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U		
Calcium			206	D1	256	D1	219	D1	186	D1	226	D1	207	D1	239	D1	201	D1		
Chloride			35.0		37.6		12.3	D2	39.8		36.9		40.8		37.0		37.7			
Fluoride	4.0 mg/L	MCL	0.22		<0.20	U	<0.20	U	0.22		0.22		<0.20	U	<0.20	U	0.20			
Sulfate			557	D, M1	1070.0	D	228	D2	1190	D	1890	D	827	D1	768	D	736	D		
pH (Field Measurement)			6.17		6.62		7.25		6.32		6.67		6.52		6.36		6.72			
Total Dissolved Solids			1200		1660		1650		1780		1340		1410		1450		1950			
APPENDIX IV CONSTITUENTS																				
Antimony	0.006 mg/L	MCL	0.002	J	<0.005	U	<0.005	U	<0.005	U	0.003	J	<0.005	U	<0.005	U	<0.005	U		
Arsenic	0.0144 mg/L	Background	0.0116		0.0229		0.0278		0.0291		0.0213		0.0175		0.0133		0.0117			
Barium	2.0 mg/L	MCL	0.053		0.029		0.022		0.020		0.020		0.017		0.018		0.017			
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U,V1	<0.002	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U		
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	0.0006	J	<0.0020	U	<0.0020	U		
Cobalt	0.009 mg/L	Background	0.037		0.018		0.006		<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U		
Fluoride	4.0 mg/L	MCL	0.22		<0.20	U	<0.20	U	0.22		0.22		<0.20	U	<0.20	U	0.20			
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U		
Lithium	0.040 mg/L	CCR Rule Value	0.04		0.03		0.03		0.05		0.04		0.04		0.04		0.04			
Mercury	0.002 mg/L	MCL	<0.0005	U	<0.0005	U	<0.000005	UJ	<0.000005	M2,UJ	<0.000005	U	<0.000005	U, V1	<0.000005	U	<0.000005	U		
Molybdenum	0.1 mg/L	CCR Rule Value	0.02		0.007	J	0.003	J	0.003	J	0.002	J	0.002	J	<0.01	U	<0.01	U		
Radium 226 Radium 228	5.0 pCi/L	MCL	0.976	J	0.969	J	1.60	J	2.89	J	3.12	J	2.74		1.62		1.16			
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U		
Thallium	0.002 mg/L	MCL	<0.02	V1,U	<0.02	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = compound was found in the blank and sample.
CCR = coal combustion residuals
D = Results reported from dilution.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
M2 = Matrix spike recovery was low; the method control sample recovery was acceptable.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit.
UJ = Non-detect result was qualified as estimated at the reporting limit during data review.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

WILSON LANDFILL - GROUNDWATER ANALYTICAL SUMMARY
MW-114

APPENDIX III CONSTITUENTS	GWPS	GWPS Criteria	DATE													
			4/28/2022		9/28/2022		4/24/2023		10/2/2023		4/16/2024		9/30/2024		4/28/2025		9/23/2025			
			Characterization																	
Boron			<0.10	U	<0.10	U	<0.10	M2, U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U		
Calcium			115	D1	130	D1	106	D1, M3	115	D1	103	D1	105	D1	109	D1	105	D1		
Chloride			40.0		31.6		28.0	D2	32.1		34.4		37.0		34.8		36.0			
Fluoride	4.0 mg/L	MCL	0.22		0.22		0.25		0.23		0.27		0.20		0.22		0.25			
Sulfate			138	D	151.0		132	D2	162		157		174		160		164			
pH (Field Measurement)			6.69		6.71		7.83		5.55		7.25		7.01		6.97		6.90			
Total Dissolved Solids			1510		864		1150		632		724		924		568		666			
APPENDIX IV CONSTITUENTS																				
Antimony	0.006 mg/L	MCL	<0.005	U	<0.005	U,V1	<0.005	U	<0.005	U	0.003000	J	<0.005	U	<0.005	U	<0.005	U		
Arsenic	0.0144 mg/L	Background	0.0025		0.0048		0.002		0.0031		0.0015		0.0017		0.0009	J	0.0015			
Barium	2.0 mg/L	MCL	0.067		0.062		0.053		0.070		0.045		0.049		0.038		0.045			
Beryllium	0.004 mg/L	MCL	<0.0020	U	<0.0020	U,V1	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		
Cadmium	0.005 mg/L	MCL	<0.0010	U	<0.0010	U	<0.001	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U	<0.0010	U		
Chromium	0.1 mg/L	MCL	<0.0020	U	<0.0020	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		
Cobalt	0.009 mg/L	Background	<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U	<0.004	U		
Fluoride	4.0 mg/L	MCL	0.22		0.22		0.25		0.23		0.27		0.20		0.22		0.25			
Lead	0.015 mg/L	CCR Rule Value	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U	<0.002	U		
Lithium	0.040 mg/L	CCR Rule Value	0.02		0.02		0.02	M1	0.02		0.02		0.02		0.02		0.02			
Mercury	0.002 mg/L	MCL	<0.0005	U	<0.0005	U	<0.000005	U	<0.000005	U	<0.000005	U	<0.000005	U, V1	<0.000005	U	<0.000005	U		
Molybdenum	0.1 mg/L	CCR Rule Value	0.007	JU	0.004	J	0.004	J	0.003	J	0.002	J	0.002	J	0.002	J	<0.01	U		
Radium 226 Radium 228	5.0 pCi/L	MCL	1.86	J	1.22	J	2.04	J	3.17	J	2.23	J	2.53		1.37		1.07			
Selenium	0.05 mg/L	MCL	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U	<0.003	U		
Thallium	0.002 mg/L	MCL	<0.002	V1,U	<0.002	U	<0.002	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U	<0.0020	U		

*All results listed in milligrams per liter (mg/L) unless otherwise noted by the Groundwater Protection Standard (GWPS).
B = Compound was found in the blank and sample.
CCR = coal combustion residuals
D = Results reported from dilution.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
M1 = Matrix spike recovery was high; the method control sample recovery was acceptable.
M2 = Matrix spike recovery was low; the method control sample recovery was acceptable.
M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
MCL = maximum contaminant level
NA = not analyzed
ND = not detected at or above method detection limit.
U = Target analyte was analyzed for, but was below detection limit.
V1 = Continuing calibration verification (CCV) recovery was above method acceptable limits. This target analyte not detected in the sample.

Appendix D – Laboratory Analytical Reports

Pace Analytical Services, LLC
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Certificate of Analysis
5044390

Brian Edwards
Big Rivers Electric Corporation Wilson Station
PO Box 20015
Owensboro, KY 42304

Customer ID: 44-100168
Report Printed: 06/04/2025 09:31

Project Name:	Wilson Groundwater Wells 092-00004	Workorder:	5044390

Dear Brian Edwards

Enclosed are the analytical results for samples received by the laboratory 04/30/2025 14:14.

The results relate to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services LLC Kentucky - Madisonville - 825 Industrial Road, Madisonville, KY 42431

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

#460210 Madisonville, KY
#460291 Pikeville, KY
#E871136 Englewood, OH

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Rob Whittington, Project Manager

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
5044390-09	MW4D/	Groundwater	04/28/2025 10:20	04/30/2025 14:14	Travis Sneed
5044390-10	Mercury Field Blank MW-4D/	Water	04/28/2025 10:20	04/30/2025 14:14	Travis Sneed
5044390-11	MW5/	Groundwater	04/29/2025 07:35	04/30/2025 14:14	Ashley Hall
5044390-12	Mercury Field Blank MW-5/	Water	04/29/2025 07:35	04/30/2025 14:14	Ashley Hall
5044390-13	MW6/	Groundwater	04/29/2025 14:30	04/30/2025 14:14	Ashley Hall
5044390-14	Mercury Field Blank MW-6/	Water	04/29/2025 14:30	04/30/2025 14:14	Ashley Hall
5044390-15	MW7/	Groundwater	04/29/2025 12:35	04/30/2025 14:14	Dave Medley
5044390-16	Mercury Field Blank MW-7/	Water	04/29/2025 12:35	04/30/2025 14:14	Dave Medley
5044390-17	MW8/	Groundwater	04/28/2025 13:35	04/30/2025 14:14	Travis Sneed
5044390-18	Mercury Field Blank MW-8/	Water	04/28/2025 13:35	04/30/2025 14:14	Travis Sneed
5044390-19	MW10/	Groundwater	04/29/2025 08:05	04/30/2025 14:14	Dave Medley
5044390-20	Mercury Field Blank MW-10/	Water	04/29/2025 08:05	04/30/2025 14:14	Dave Medley
5044390-21	MW-10D/	Groundwater	04/28/2025 12:30	04/30/2025 14:14	Dave Medley
5044390-22	Mercury Field Blank MW-10D/	Water	04/28/2025 12:30	04/30/2025 14:14	Dave Medley
5044390-23	MW102/	Groundwater	04/28/2025 08:55	04/30/2025 14:14	Ashley Hall
5044390-24	Mercury Field Blank MW-102/	Water	04/28/2025 08:55	04/30/2025 14:14	Ashley Hall
5044390-25	MW104/	Groundwater	04/28/2025 10:25	04/30/2025 14:14	Dave Medley
5044390-26	Mercury Field Blank MW-104/	Water	04/28/2025 10:25	04/30/2025 14:14	Dave Medley
5044390-27	MW-105R/	Groundwater	04/28/2025 10:15	04/30/2025 14:14	Ashley Hall
5044390-28	Mercury Field Blank MW-105R/	Water	04/28/2025 10:15	04/30/2025 14:14	Ashley Hall
5044390-29	MW110/	Groundwater	04/28/2025 08:10	04/30/2025 14:14	Travis Sneed
5044390-30	Mercury Field Blank MW-110/	Water	04/28/2025 08:10	04/30/2025 14:14	Travis Sneed
5044390-31	MW-111/	Groundwater	04/28/2025 12:15	04/30/2025 14:14	Travis Sneed
5044390-32	Mercury Field Blank MW-111/	Water	04/28/2025 12:15	04/30/2025 14:14	Travis Sneed
5044390-33	MW-112/	Groundwater	04/28/2025 12:30	04/30/2025 14:14	Ashley Hall
5044390-34	Mercury Field Blank MW-112/	Water	04/28/2025 12:30	04/30/2025 14:14	Ashley Hall
5044390-35	MW-113/	Groundwater	04/28/2025 07:35	04/30/2025 14:14	Dave Medley
5044390-36	Mercury Field Blank MW-113/	Water	04/28/2025 07:35	04/30/2025 14:14	Dave Medley

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SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
5044390-37	MW-114/	Groundwater	04/28/2025 14:40	04/30/2025 14:14	Dave Medley
5044390-38	Mercury Field Blank MW-114/	Water	04/28/2025 14:40	04/30/2025 14:14	Dave Medley
5044390-39	Well Duplicate 1/	Groundwater	04/28/2025 08:27	04/30/2025 14:14	Travis Sneed
5044390-40	Mercury Field Blank Well Dup-1/	Water	04/28/2025 08:27	04/30/2025 14:14	Travis Sneed
5044390-43	Field Blank/	Water	04/29/2025 10:55	04/30/2025 14:14	Ashley Hall
5044390-44	Mercury Field Blank/	Water	04/29/2025 10:55	04/30/2025 14:14	Ashley Hall

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LabNumber	Measurement	Value
5044390-01	Field Conductance	3570
	Field pH	6.01
	Field Temp (C)	17.68
5044390-03	Field Conductance	742
	Field pH	6.77
	Field Temp (C)	20.44
5044390-05	Field Conductance	1970
	Field pH	6.61
	Field Temp (C)	21.26
5044390-07	Field Conductance	3350
	Field pH	6.44
	Field Temp (C)	20.60
5044390-09	Field Conductance	3770
	Field pH	6.30
	Field Temp (C)	19.11
5044390-11	Field Conductance	4320
	Field pH	6.40
	Field Temp (C)	18.55
5044390-13	Field Conductance	3260
	Field pH	6.40
	Field Temp (C)	21.22
5044390-15	Field Conductance	3320
	Field pH	6.54
	Field Temp (C)	21.80
5044390-17	Field Conductance	1960
	Field pH	6.58
	Field Temp (C)	19.41
5044390-19	Field Conductance	3430
	Field pH	5.98
	Field Temp (C)	20.05
5044390-21	Field Conductance	3120
	Field pH	6.32
	Field Temp (C)	19.88
5044390-23	Field Conductance	1300
	Field pH	6.75
	Field Temp (C)	15.98
5044390-25	Field Conductance	2190
	Field pH	6.65
	Field Temp (C)	19.99
5044390-27	Field Conductance	1390
	Field pH	6.78
	Field Temp (C)	15.75
5044390-29	Field Conductance	493
	Field pH	5.77
	Field Temp (C)	16.07
5044390-31	Field Conductance	3660
	Field pH	6.51
	Field Temp (C)	20.39
5044390-33	Field Conductance	1210
	Field pH	6.79
	Field Temp (C)	16.56
5044390-35	Field Conductance	2090
	Field pH	6.36
	Field Temp (C)	17.31
5044390-37	Field Conductance	989
	Field pH	6.97
	Field Temp (C)	23.65

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5044390-39	Field Conductance	493
	Field pH	5.77
	Field Temp (C)	16.07
5044390-41	Field Conductance	1970
	Field pH	6.61
	Field Temp (C)	21.26
5044390-43	Field Conductance	3350
	Field pH	6.44
	Field Temp (C)	20.60

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-09**
Description: **MW4D**

Sample Collection Date Time: 04/28/2025 10:20
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Arsenic	**0.0029**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Barium	**0.014**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Boron	**3.14**	D1	mg/L	1.00	1.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 19:53	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Calcium	**554**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/01/2025 19:56	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Cobalt	**0.068**		mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Iron	**68.2**	D1	mg/L	1.00	0.500	SW846 6010 B	05/01/2025 11:00	05/01/2025 19:53	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Lithium	**0.07**		mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Magnesium	**197**	D1	mg/L	20.0	9.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 19:56	MRWD
Molybdenum	**0.005**	J	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Nickel	**0.117**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Potassium	**19.5**	D1	mg/L	5.00	2.20	SW846 6010 B	05/01/2025 11:00	05/01/2025 19:53	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Sodium	**192**	D1	mg/L	26.0	10.0	SW846 6010 B	05/01/2025 11:00	05/01/2025 19:56	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS
Zinc	**0.12**		mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:17	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 12:58	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**234**		mg/L	4	4	2320 B-2011	05/05/2025 14:53	05/05/2025 14:53	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 14:53	05/05/2025 14:53	DJK
Total Alkalinity	**234**		mg/L	4	4	2320 B-2011	05/05/2025 14:53	05/05/2025 14:53	DJK
Chemical Oxygen Demand	**24**		mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**4160**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 09:00	05/01/2025 13:34	AED
Total Dissolved Solids	**2200**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**0.9**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 20:26	05/08/2025 20:26	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**244**	D	mg/L	10.0	7.2	EPA 300.0 REV 2.1	05/01/2025 15:10	05/01/2025 15:10	CDD
Fluoride	**0.23**		mg/L	0.20	0.18	EPA 300.0 REV 2.1	05/01/2025 14:48	05/01/2025 14:48	CDD
Sulfate	**1610**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 15:10	05/01/2025 15:10	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2190**	D	mg/L	207	99.5	2340 B-1997	05/01/2025 11:00	05/01/2025 19:56	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-10**
Description: **Mercury Field Blank MW-4D**

Sample Collection Date Time: 04/28/2025 10:20
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 11:36	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-11**
Description: **MW5**

Sample Collection Date Time: 04/29/2025 07:35
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	M1, U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Arsenic	**0.0032**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Barium	**0.013**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Boron	**0.96**	M1	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/01/2025 19:59	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Calcium	**789**	D1, M3	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:06	MRWD
Chromium	**0.0006**	J	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Cobalt	**0.006**		mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Iron	**8.51**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/01/2025 19:59	MRWD
Lead	**0.0007**	J	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Lithium	**0.04**	M1	mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Magnesium	**374**	D1, M3	mg/L	20.0	9.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:06	MRWD
Molybdenum	**0.005**	J	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Nickel	**0.005**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Potassium	**9.82**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/01/2025 19:59	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Sodium	**138**	D1, M3	mg/L	26.0	10.0	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:06	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS
Zinc	**0.01**	M1, J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:24	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	M2, Y2, U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/01/2025 09:41	05/01/2025 14:57	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**485**		mg/L	4	4	2320 B-2011	05/05/2025 14:58	05/05/2025 14:58	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 14:58	05/05/2025 14:58	DJK
Total Alkalinity	**485**	M3	mg/L	4	4	2320 B-2011	05/05/2025 14:58	05/05/2025 14:58	DJK
Chemical Oxygen Demand	**45**		mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**4960**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**3540**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**2.2**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 20:47	05/08/2025 20:47	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**276**	D	mg/L	10.0	7.2	EPA 300.0 REV 2.1	05/01/2025 16:35	05/01/2025 16:35	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	05/01/2025 16:14	05/01/2025 16:14	CDD
Sulfate	**1580**	D, M1	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 16:35	05/01/2025 16:35	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**3510**	D	mg/L	207	99.5	2340 B-1997	05/01/2025 11:00	05/01/2025 20:06	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-12**
Description: **Mercury Field Blank MW-5**

Sample Collection Date Time: 04/29/2025 07:35
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 10:09	05/02/2025 16:32	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-13**
Description: **MW6**

Sample Collection Date Time: 04/29/2025 14:30
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Arsenic	**0.0044**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Barium	**0.012**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Boron	**0.80**		mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:09	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Calcium	**542**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:15	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Cobalt	**0.009**		mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Iron	**6.05**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:09	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Lithium	**0.04**		mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Magnesium	**258**	D1	mg/L	20.0	9.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:15	MRWD
Molybdenum	**0.006**	J	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Nickel	**0.016**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Potassium	**8.29**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:09	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Sodium	**39.8**	D1	mg/L	2.60	1.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:12	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS
Zinc	**0.01**	J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:54	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 15:04	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**502**		mg/L	4	4	2320 B-2011	05/05/2025 15:06	05/05/2025 15:06	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 15:06	05/05/2025 15:06	DJK
Total Alkalinity	**502**		mg/L	4	4	2320 B-2011	05/05/2025 15:06	05/05/2025 15:06	DJK
Chemical Oxygen Demand	**11**	J	mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**3760**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**2630**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**1.8**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 21:01	05/08/2025 21:01	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**29.9**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/01/2025 16:57	05/01/2025 16:57	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	05/01/2025 16:57	05/01/2025 16:57	CDD
Sulfate	**1650**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 17:18	05/01/2025 17:18	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2410**	D	mg/L	207	99.5	2340 B-1997	05/01/2025 11:00	05/01/2025 20:15	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-14**
Description: **Mercury Field Blank MW-6**

Sample Collection Date Time: 04/29/2025 14:30
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 10:09	05/02/2025 16:40	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-15**
Description: **MW7**

Sample Collection Date Time: 04/29/2025 12:35
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Arsenic	**0.0050**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Barium	**0.015**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Boron	**6.87**	D1	mg/L	1.00	1.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:31	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Calcium	**545**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:34	MRWD
Chromium	**0.0006**	J	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Iron	**6.89**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:28	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Lithium	**0.03**		mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Magnesium	**214**	D1	mg/L	20.0	9.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:34	MRWD
Molybdenum	**0.005**	J	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Nickel	**0.007**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Potassium	**7.86**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:28	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Sodium	**70.9**	D1	mg/L	2.60	1.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:31	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS
Zinc	**0.01**	J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 20:57	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 13:06	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**354**		mg/L	4	4	2320 B-2011	05/05/2025 15:15	05/05/2025 15:15	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 15:15	05/05/2025 15:15	DJK
Total Alkalinity	**354**		mg/L	4	4	2320 B-2011	05/05/2025 15:15	05/05/2025 15:15	DJK
Chemical Oxygen Demand	**27**		mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**3640**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**2240**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**1.6**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 21:20	05/08/2025 21:20	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**222**	D	mg/L	10.0	7.2	EPA 300.0 REV 2.1	05/01/2025 18:01	05/01/2025 18:01	CDD
Fluoride	**0.22**		mg/L	0.20	0.18	EPA 300.0 REV 2.1	05/01/2025 17:40	05/01/2025 17:40	CDD
Sulfate	**1310**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 18:01	05/01/2025 18:01	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2240**	D	mg/L	207	99.5	2340 B-1997	05/01/2025 11:00	05/01/2025 20:34	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-16**
Description: **Mercury Field Blank MW-7**

Sample Collection Date Time: 04/29/2025 12:35
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 11:44	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-17**
Description: **MW8**

Sample Collection Date Time: 04/28/2025 13:35
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Arsenic	**0.0059**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Barium	**0.023**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:37	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Calcium	**236**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:44	MRWD
Chromium	**0.0017**	J	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Copper	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Iron	**27.2**	D1	mg/L	1.00	0.500	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:40	MRWD
Lead	**0.0006**	J	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Lithium	**0.009**	J	mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Magnesium	**134**	D1	mg/L	20.0	9.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:44	MRWD
Molybdenum	**0.01**		mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Nickel	**0.004**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Potassium	**2.81**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:37	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Sodium	**30.9**	D1	mg/L	2.60	1.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:40	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS
Zinc	**0.01**	J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:05	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 13:13	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**254**		mg/L	4	4	2320 B-2011	05/05/2025 15:19	05/05/2025 15:19	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 15:19	05/05/2025 15:19	DJK
Total Alkalinity	**254**		mg/L	4	4	2320 B-2011	05/05/2025 15:19	05/05/2025 15:19	DJK
Chemical Oxygen Demand	**41**		mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**2120**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**1680**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**2.8**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 21:34	05/08/2025 21:34	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**3.6**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/01/2025 18:23	05/01/2025 18:23	CDD
Fluoride	**0.25**		mg/L	0.20	0.18	EPA 300.0 REV 2.1	05/01/2025 18:23	05/01/2025 18:23	CDD
Sulfate	**815**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 18:44	05/01/2025 18:44	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**1140**	D	mg/L	207	99.5	2340 B-1997	05/01/2025 11:00	05/01/2025 20:44	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-18**
Description: **Mercury Field Blank MW-8**

Sample Collection Date Time: 04/28/2025 13:35
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 12:06	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-19**
Description: **MW10**

Sample Collection Date Time: 04/29/2025 08:05
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Arsenic	**0.0016**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Barium	**0.008**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Boron	**0.39**		mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:47	MRWD
Cadmium	**0.0001**	J	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Calcium	**471**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:53	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Cobalt	**0.079**		mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Copper	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Iron	**24.8**	D1	mg/L	1.00	0.500	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:50	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Lithium	**0.007**	J	mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Magnesium	**263**	D1	mg/L	20.0	9.00	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:53	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Nickel	**0.038**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Potassium	**3.94**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:47	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Sodium	**157**	D1	mg/L	26.0	10.0	SW846 6010 B	05/01/2025 11:00	05/01/2025 20:53	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS
Zinc	**0.02**		mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 21:12	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 15:11	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**171**		mg/L	4	4	2320 B-2011	05/05/2025 15:25	05/05/2025 15:25	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 15:25	05/05/2025 15:25	DJK
Total Alkalinity	**171**		mg/L	4	4	2320 B-2011	05/05/2025 15:25	05/05/2025 15:25	DJK
Chemical Oxygen Demand	**36**		mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**3850**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**1910**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**1.9**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 21:50	05/08/2025 21:50	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**51.1**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/01/2025 19:06	05/01/2025 19:06	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	05/01/2025 19:06	05/01/2025 19:06	CDD
Sulfate	**1710**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 19:27	05/01/2025 19:27	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2260**	D	mg/L	207	99.5	2340 B-1997	05/01/2025 11:00	05/01/2025 20:53	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-20**
Description: **Mercury Field Blank MW-10**

Sample Collection Date Time: 04/29/2025 08:05
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 10:09	05/02/2025 16:47	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-21**
Description: **MW-10D**

Sample Collection Date Time: 04/28/2025 12:30
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	M1, U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Arsenic	**0.0023**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Barium	**0.022**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Boron	**2.90**	M1, D1	mg/L	1.00	1.00	SW846 6010 B	05/01/2025 11:00	05/06/2025 13:47	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Calcium	**523**	D1, M3	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:12	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Cobalt	**0.020**	M1	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Copper	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Iron	**30.3**	D1, M1	mg/L	1.00	0.500	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:03	AIS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Lithium	**0.07**	M1	mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Magnesium	**131**	D1, M3	mg/L	20.0	9.00	SW846 6010 B	05/01/2025 11:00	05/06/2025 13:53	AIS
Molybdenum	**0.008**	M1, J	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Nickel	**0.031**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Potassium	**10.5**	M1, D1	mg/L	5.00	2.20	SW846 6010 B	05/01/2025 11:00	05/06/2025 13:47	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Sodium	**94.7**	D1, M3	mg/L	2.60	1.00	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:03	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS
Zinc	**0.03**	M1	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:04	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 15:19	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**177**		mg/L	4	4	2320 B-2011	05/05/2025 15:58	05/05/2025 15:58	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 15:58	05/05/2025 15:58	DJK
Total Alkalinity	**177**		mg/L	4	4	2320 B-2011	05/05/2025 15:58	05/05/2025 15:58	DJK
Chemical Oxygen Demand	**13**		mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**3550**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**2400**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**0.9**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 23:16	05/08/2025 23:16	HMF

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**145**	D	mg/L	10.0	7.2	EPA 300.0 REV 2.1	05/01/2025 20:53	05/01/2025 20:53	CDD
Fluoride	**0.50**		mg/L	0.20	0.18	EPA 300.0 REV 2.1	05/01/2025 20:32	05/01/2025 20:32	CDD
Sulfate	**1480**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 20:53	05/01/2025 20:53	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**1840**	D	mg/L	207	99.5	2340 B-1997	05/01/2025 11:00	05/06/2025 13:53	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-22**
Description: **Mercury Field Blank MW-10D**

Sample Collection Date Time: 04/28/2025 12:30
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 10:09	05/02/2025 16:55	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-23**
Description: **MW102**

Sample Collection Date Time: 04/28/2025 08:55
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Arsenic	**0.0047**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Barium	**0.043**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/06/2025 14:48	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Calcium	**82.0**	D1	mg/L	5.00	2.50	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:06	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Iron	**4.87**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/05/2025 13:57	AIS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Lithium	ND	U	mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Magnesium	**39.4**	D1	mg/L	2.00	0.900	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:01	AIS
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Nickel	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Potassium	**1.23**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/06/2025 14:48	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Sodium	**131**	D1	mg/L	26.0	10.0	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:15	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS
Zinc	**0.01**	J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:11	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 15:26	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**292**		mg/L	4	4	2320 B-2011	05/05/2025 16:02	05/05/2025 16:02	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 16:02	05/05/2025 16:02	DJK
Total Alkalinity	**292**		mg/L	4	4	2320 B-2011	05/05/2025 16:02	05/05/2025 16:02	DJK
Chemical Oxygen Demand	**8**	J	mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**1440**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**800**		mg/L	100	100	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**1.2**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 23:30	05/08/2025 23:30	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**31.9**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/01/2025 21:15	05/01/2025 21:15	CDD
Fluoride	**0.29**		mg/L	0.20	0.18	EPA 300.0 REV 2.1	05/01/2025 21:15	05/01/2025 21:15	CDD
Sulfate	**304**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 21:36	05/01/2025 21:36	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**367**	D	mg/L	20.7	9.95	2340 B-1997	05/01/2025 11:00	05/06/2025 15:01	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-24**
Description: **Mercury Field Blank MW-102**

Sample Collection Date Time: 04/28/2025 08:55
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 10:09	05/02/2025 17:02	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-25**
Description: **MW104**

Sample Collection Date Time: 04/28/2025 10:25
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Arsenic	**0.0005**	J	mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Barium	**0.028**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/06/2025 14:51	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Calcium	**99.6**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:19	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Iron	**2.33**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:00	AIS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Lithium	**0.03**		mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/02/2025 17:35	HJS
Magnesium	**99.1**	D1	mg/L	2.00	0.900	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:04	AIS
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Nickel	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Potassium	**2.80**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/06/2025 14:51	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Sodium	**83.4**	D1	mg/L	2.60	1.00	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:09	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS
Zinc	ND	U	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:37	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 13:28	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**407**		mg/L	4	4	2320 B-2011	05/05/2025 16:08	05/05/2025 16:08	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 16:08	05/05/2025 16:08	DJK
Total Alkalinity	**407**		mg/L	4	4	2320 B-2011	05/05/2025 16:08	05/05/2025 16:08	DJK
Chemical Oxygen Demand	**10**	J	mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**2460**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**1220**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**0.8**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 23:44	05/08/2025 23:44	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**12.2**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/01/2025 21:58	05/01/2025 21:58	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	05/01/2025 21:58	05/01/2025 21:58	CDD
Sulfate	**890**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 22:19	05/01/2025 22:19	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**657**	D	mg/L	133	66.1	2340 B-1997	05/01/2025 11:00	05/06/2025 15:04	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-26**
Description: **Mercury Field Blank MW-104**

Sample Collection Date Time: 04/28/2025 10:25
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 12:13	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-27**
Description: **MW-105R**

Sample Collection Date Time: 04/28/2025 10:15
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Arsenic	**0.0017**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Barium	**0.020**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/06/2025 13:44	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Calcium	**183**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/06/2025 13:57	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Copper	**0.059**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Iron	**2.59**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:31	AIS
Lead	**0.003**		mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Lithium	**0.03**		mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/02/2025 17:38	HJS
Magnesium	**58.7**	D1	mg/L	2.00	0.900	SW846 6010 B	05/01/2025 11:00	05/06/2025 13:50	AIS
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Nickel	**0.009**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Potassium	**2.22**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/06/2025 13:44	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Sodium	**39.7**	D1	mg/L	2.60	1.00	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:41	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS
Zinc	**0.07**		mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:44	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 15:41	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**402**		mg/L	4	4	2320 B-2011	05/05/2025 16:14	05/05/2025 16:14	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 16:14	05/05/2025 16:14	DJK
Total Alkalinity	**402**		mg/L	4	4	2320 B-2011	05/05/2025 16:14	05/05/2025 16:14	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**1540**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**1810**		mg/L	100	100	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**0.9**		mg/L	0.5	0.2	5310 C-2014	05/08/2025 23:57	05/08/2025 23:57	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**11.9**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/01/2025 22:41	05/01/2025 22:41	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	05/01/2025 22:41	05/01/2025 22:41	CDD
Sulfate	**333**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/01/2025 23:02	05/01/2025 23:02	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**700**	D	mg/L	133	66.1	2340 B-1997	05/01/2025 11:00	05/06/2025 13:57	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-28**
Description: **Mercury Field Blank MW-105R**

Sample Collection Date Time: 04/28/2025 10:15
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 13:49	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-29**
Description: **MW110**

Sample Collection Date Time: 04/28/2025 08:10
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Arsenic	**0.0023**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Barium	**0.059**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/06/2025 14:55	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Calcium	**54.2**	D1	mg/L	5.00	2.50	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:07	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Iron	**4.58**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:34	AIS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Lithium	ND	U	mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/02/2025 17:40	HJS
Magnesium	**27.1**	D1	mg/L	2.00	0.900	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:07	AIS
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Nickel	**0.001**	J	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Potassium	**0.60**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/06/2025 14:55	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Sodium	**29.2**	D1	mg/L	2.60	1.00	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:44	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS
Zinc	ND	U	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:52	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 15:49	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**144**		mg/L	4	4	2320 B-2011	05/05/2025 16:20	05/05/2025 16:20	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 16:20	05/05/2025 16:20	DJK
Total Alkalinity	**144**		mg/L	4	4	2320 B-2011	05/05/2025 16:20	05/05/2025 16:20	DJK
Chemical Oxygen Demand	**10**	J	mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**538**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**288**		mg/L	50	50	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**1.5**		mg/L	0.5	0.2	5310 C-2014	05/09/2025 00:11	05/09/2025 00:11	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**10.4**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/01/2025 23:24	05/01/2025 23:24	CDD
Fluoride	**0.24**		mg/L	0.20	0.18	EPA 300.0 REV 2.1	05/01/2025 23:24	05/01/2025 23:24	CDD
Sulfate	**72.0**		mg/L	1.0	1.0	EPA 300.0 REV 2.1	05/01/2025 23:24	05/01/2025 23:24	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**247**	D	mg/L	20.7	9.95	2340 B-1997	05/01/2025 11:00	05/06/2025 15:07	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-30**
Description: **Mercury Field Blank MW-110**

Sample Collection Date Time: 04/28/2025 08:10
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 13:56	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-31**
Description: **MW-111**

Sample Collection Date Time: 04/28/2025 12:15
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Arsenic	**0.0024**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Barium	**0.016**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Boron	**0.21**		mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/06/2025 14:58	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Calcium	**638**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:10	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Cobalt	**0.012**		mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Iron	**13.4**	D1	mg/L	1.00	0.500	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:47	AIS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Lithium	**0.04**		mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/02/2025 17:42	HJS
Magnesium	**324**	D1	mg/L	20.0	9.00	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:10	AIS
Molybdenum	**0.003**	J	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Nickel	**0.016**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Potassium	**6.99**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/06/2025 14:58	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Sodium	**73.1**	D1	mg/L	2.60	1.00	SW846 6010 B	05/01/2025 11:00	05/05/2025 14:47	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS
Zinc	**0.01**	J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 22:59	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 13:36	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**568**		mg/L	4	4	2320 B-2011	05/05/2025 16:24	05/05/2025 16:24	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 16:24	05/05/2025 16:24	DJK
Total Alkalinity	**568**		mg/L	4	4	2320 B-2011	05/05/2025 16:24	05/05/2025 16:24	DJK
Chemical Oxygen Demand	**21**		mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**4160**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**2960**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**2.8**		mg/L	0.5	0.2	5310 C-2014	05/09/2025 00:33	05/09/2025 00:33	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**3.6**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/02/2025 00:49	05/02/2025 00:49	CDD
Fluoride	**0.27**		mg/L	0.20	0.18	EPA 300.0 REV 2.1	05/02/2025 00:49	05/02/2025 00:49	CDD
Sulfate	**1960**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/02/2025 01:11	05/02/2025 01:11	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2930**	D	mg/L	207	99.5	2340 B-1997	05/01/2025 11:00	05/06/2025 15:10	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-32**
Description: **Mercury Field Blank MW-111**

Sample Collection Date Time: 04/28/2025 12:15
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 12:21	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-33**
Description: **MW-112**

Sample Collection Date Time: 04/28/2025 12:30
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Arsenic	**0.0010**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Barium	**0.024**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Boron	**0.11**		mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:09	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Calcium	**195**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:32	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Iron	**0.936**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:09	AIS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Lithium	**0.01**	J	mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/02/2025 17:45	HJS
Magnesium	**44.2**	D1	mg/L	2.00	0.900	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:26	AIS
Molybdenum	**0.002**	J	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Nickel	**0.005**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Potassium	**3.60**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:09	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Sodium	**9.63**		mg/L	0.26	0.10	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:09	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS
Zinc	**0.004**	J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:29	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 15:56	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**310**		mg/L	4	4	2320 B-2011	05/05/2025 16:32	05/05/2025 16:32	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 16:32	05/05/2025 16:32	DJK
Total Alkalinity	**310**	M3	mg/L	4	4	2320 B-2011	05/05/2025 16:32	05/05/2025 16:32	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**1350**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**836**		mg/L	100	100	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**2.2**		mg/L	0.5	0.2	5310 C-2014	05/09/2025 00:48	05/09/2025 00:48	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**2.0**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/02/2025 01:32	05/02/2025 01:32	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	05/02/2025 01:32	05/02/2025 01:32	CDD
Sulfate	**344**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/02/2025 01:54	05/02/2025 01:54	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**668**	D	mg/L	133	66.1	2340 B-1997	05/01/2025 11:00	05/06/2025 15:32	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-34**
Description: **Mercury Field Blank MW-112**

Sample Collection Date Time: 04/28/2025 12:30
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 14:19	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-35**
Description: **MW-113**

Sample Collection Date Time: 04/28/2025 07:35
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Arsenic	**0.0133**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Barium	**0.018**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:12	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Calcium	**239**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:13	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Iron	**7.56**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:12	AIS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Lithium	**0.04**		mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/02/2025 17:59	HJS
Magnesium	**123**	D1	mg/L	20.0	9.00	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:13	AIS
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Nickel	**0.005**		mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Potassium	**2.54**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:12	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Sodium	**162**	D1	mg/L	26.0	10.0	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:31	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS
Zinc	**0.006**	J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:32	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 16:04	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**410**		mg/L	4	4	2320 B-2011	05/05/2025 16:38	05/05/2025 16:38	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 16:38	05/05/2025 16:38	DJK
Total Alkalinity	**410**		mg/L	4	4	2320 B-2011	05/05/2025 16:38	05/05/2025 16:38	DJK
Chemical Oxygen Demand	**15**		mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**2420**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**1450**		mg/L	250	250	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**3.2**		mg/L	0.5	0.2	5310 C-2014	05/09/2025 01:02	05/09/2025 01:02	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**37.0**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/02/2025 02:15	05/02/2025 02:15	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	05/02/2025 02:15	05/02/2025 02:15	CDD
Sulfate	**768**	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	05/02/2025 02:36	05/02/2025 02:36	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**1100**	D	mg/L	207	99.5	2340 B-1997	05/01/2025 11:00	05/06/2025 15:13	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-36**
Description: **Mercury Field Blank MW-113**

Sample Collection Date Time: 04/28/2025 07:35
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 14:26	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-37**
Description: **MW-114**

Sample Collection Date Time: 04/28/2025 14:40
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Arsenic	**0.0009**	J	mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Barium	**0.038**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:15	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Calcium	**109**	D1	mg/L	50.0	25.0	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:36	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Iron	**0.857**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:15	AIS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Lithium	**0.02**		mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/02/2025 18:01	HJS
Magnesium	**28.1**	D1	mg/L	2.00	0.900	SW846 6010 B	05/01/2025 11:00	05/06/2025 15:29	AIS
Molybdenum	**0.002**	J	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Nickel	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Potassium	**1.80**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:15	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Sodium	**80.0**	D1	mg/L	2.60	1.00	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:25	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS
Zinc	**0.004**	J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:40	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 16:11	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**313**		mg/L	4	4	2320 B-2011	05/05/2025 16:45	05/05/2025 16:45	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 16:45	05/05/2025 16:45	DJK
Total Alkalinity	**313**		mg/L	4	4	2320 B-2011	05/05/2025 16:45	05/05/2025 16:45	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**1160**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**568**		mg/L	100	100	2540 C-2015	05/02/2025 16:17	05/02/2025 16:17	HAG
Total Organic Carbon	**0.6**		mg/L	0.5	0.2	5310 C-2014	05/09/2025 01:44	05/09/2025 01:44	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**34.8**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/02/2025 02:58	05/02/2025 02:58	CDD
Fluoride	**0.22**		mg/L	0.20	0.18	EPA 300.0 REV 2.1	05/02/2025 02:58	05/02/2025 02:58	CDD
Sulfate	**160**		mg/L	1.0	1.0	EPA 300.0 REV 2.1	05/02/2025 02:58	05/02/2025 02:58	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**388**	D	mg/L	133	66.1	2340 B-1997	05/01/2025 11:00	05/06/2025 15:36	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-38**
Description: **Mercury Field Blank MW-114**

Sample Collection Date Time: 04/28/2025 14:40
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 14:41	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-39**
Description: **Well Duplicate 1**

Sample Collection Date Time: 04/28/2025 08:27
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Arsenic	**0.0020**		mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Barium	**0.058**		mg/L	0.004	0.001	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 08:42	05/01/2025 16:50	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Calcium	**39.9**	D1	mg/L	5.00	2.50	SW846 6010 B	05/01/2025 08:42	05/01/2025 16:56	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Iron	**4.08**		mg/L	0.100	0.050	SW846 6010 B	05/01/2025 08:42	05/01/2025 16:50	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Lithium	ND	U	mg/L	0.02	0.005	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Magnesium	**19.8**	D1	mg/L	2.00	0.900	SW846 6010 B	05/01/2025 08:42	05/01/2025 16:56	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Nickel	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Potassium	**0.55**		mg/L	0.50	0.22	SW846 6010 B	05/01/2025 08:42	05/01/2025 16:50	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Sodium	**28.7**	D1	mg/L	26.0	10.0	SW846 6010 B	05/01/2025 08:42	05/01/2025 17:03	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS
Zinc	**0.005**	L1, J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 08:42	05/01/2025 16:55	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 16:26	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	**145**		mg/L	4	4	2320 B-2011	05/05/2025 16:50	05/05/2025 16:50	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/05/2025 16:50	05/05/2025 16:50	DJK
Total Alkalinity	**145**		mg/L	4	4	2320 B-2011	05/05/2025 16:50	05/05/2025 16:50	DJK
Chemical Oxygen Demand	**10**	J	mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**539**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	**270**		mg/L	50	50	2540 C-2015	05/02/2025 17:04	05/02/2025 17:04	HAG
Total Organic Carbon	**1.4**		mg/L	0.5	0.2	5310 C-2014	05/09/2025 01:57	05/09/2025 01:57	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**10.3**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/02/2025 03:41	05/02/2025 03:41	CDD
Fluoride	**0.23**		mg/L	0.20	0.18	EPA 300.0 REV 2.1	05/02/2025 03:41	05/02/2025 03:41	CDD
Sulfate	**71.4**		mg/L	1.0	1.0	EPA 300.0 REV 2.1	05/02/2025 03:41	05/02/2025 03:41	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**181**	D	mg/L	20.7	9.95	2340 B-1997	05/01/2025 08:42	05/01/2025 16:56	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-40**
Description: **Mercury Field Blank Well Dup-1**

Sample Collection Date Time: 04/28/2025 08:27
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/03/2025 07:30	05/03/2025 14:49	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-43**
Description: **Field Blank**

Sample Collection Date Time: 04/29/2025 10:55
Sample Received Date Time: 04/30/2025 14:14

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Arsenic	ND	U	mg/L	0.0010	0.0004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Barium	ND	U	mg/L	0.004	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:47	AIS
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Calcium	ND	V1, U	mg/L	0.50	0.25	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:47	AIS
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Iron	ND	V1, U	mg/L	0.100	0.050	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:47	AIS
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Lithium	ND	U	mg/L	0.02	0.005	SW846-6020 A	05/01/2025 11:00	05/02/2025 18:03	HJS
Magnesium	ND	V1, U	mg/L	0.200	0.090	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:47	AIS
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Nickel	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Potassium	ND	U	mg/L	0.50	0.22	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:47	AIS
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Sodium	ND	U	mg/L	0.26	0.10	SW846 6010 B	05/01/2025 11:00	05/05/2025 15:47	AIS
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS
Zinc	**0.004**	J	mg/L	0.02	0.004	SW846-6020 A	05/01/2025 11:00	05/01/2025 23:47	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	**10.2**		ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 12:28	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Bicarbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/06/2025 12:09	05/06/2025 12:09	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	05/06/2025 12:09	05/06/2025 12:09	DJK
Total Alkalinity	ND	U	mg/L	4		2320 B-2011	05/06/2025 12:09	05/06/2025 12:09	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	05/07/2025 10:03	05/07/2025 10:03	AKJ
Specific Conductance (Lab)	**2**		uS/cm @ 25.0 °C	1	1	2510 B-2011	05/01/2025 13:25	05/01/2025 13:34	AED
Total Dissolved Solids	ND	G1, U	mg/L	50	50	2540 C-2015	05/02/2025 17:04	05/02/2025 17:04	HAG
Total Organic Carbon	**0.4**	J	mg/L	0.5	0.2	5310 C-2014	05/09/2025 03:35	05/09/2025 03:35	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	06/02/2025 08:20	06/02/2025 08:21	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	06/02/2025 08:20	06/02/2025 08:21	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	ND	U	mg/L	0.5	0.4	EPA 300.0 REV 2.1	05/01/2025 14:04	05/01/2025 14:04	CLS3
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	05/01/2025 14:04	05/01/2025 14:04	CLS3
Sulfate	ND	U	mg/L	1.0	1.0	EPA 300.0 REV 2.1	05/01/2025 14:04	05/01/2025 14:04	CLS3

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	ND	U	mg/L	2.07	0.995	2340 B-1997	05/01/2025 11:00	05/05/2025 15:47	AIS

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ANALYTICAL RESULTS

Lab Sample ID: **5044390-44**
Description: **Mercury Field Blank**

Sample Collection Date Time: 04/29/2025 10:55
Sample Received Date Time: 04/30/2025 14:14

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	05/02/2025 08:12	05/02/2025 12:36	DER

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Notes for work order 5044390

- Samples collected by PACE personnel are done so in accordance with procedures set forth in PACE field services SOPs .
- Results contained in this report are only representative of the samples received.
- PACE does not provide interpretation of these results unless otherwise stated .
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Qualifiers

D	Results reported from dilution.
D1	Sample required dilution due to high concentration of target analyte.
D2	Sample required dilution due to matrix interference.
G1	Residue yield was less than the method required 2.5mg.
J	Estimated value.
L1	The associated blank spike recovery was above method acceptance limits.
M1	Matrix spike recovery was high; the method control sample recovery was acceptable.
M2	Matrix spike recovery was low; the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
U	Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).
V1	CCV recovery was above method acceptance limits. This target analyte not detected in the sample.
Y1	Sample RPD exceeded the method control limit.
Y2	MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.

Standard Qualifiers/Acronyms

MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
>	Greater than
<	Less than

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BED3276 - EPA 200.2										
Blank (BED3276-BLK1)										
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 16:40										
Boron	ND	0.10	mg/L							U
Calcium	ND	0.50	mg/L							U
Iron	ND	0.100	mg/L							U
Magnesium	ND	0.200	mg/L							U
Potassium	ND	0.50	mg/L							U
Sodium	ND	0.26	mg/L							U
Blank (BED3276-BLK2)										
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 16:48										
Molybdenum	ND	0.01	mg/L							U
Antimony	ND	0.005	mg/L							U
Arsenic	ND	0.0010	mg/L							U
Barium	ND	0.004	mg/L							U
Beryllium	ND	0.0020	mg/L							U
Cadmium	ND	0.0010	mg/L							U
Chromium	ND	0.0020	mg/L							U
Cobalt	ND	0.004	mg/L							U
Copper	ND	0.003	mg/L							U
Lead	ND	0.002	mg/L							U
Lithium	ND	0.02	mg/L							U
Nickel	ND	0.003	mg/L							U
Selenium	ND	0.003	mg/L							U
Thallium	ND	0.0020	mg/L							U
Zinc	0.008	0.02	mg/L							L1, J
LCS (BED3276-BS1)										
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 16:44										
Boron	0.13	0.10	mg/L	0.125		105	85-115			
Calcium	6.58	0.50	mg/L	6.25		105	85-115			
Iron	6.32	0.100	mg/L	6.25		101	85-115			
Magnesium	6.37	0.200	mg/L	6.25		102	85-115			
Potassium	6.51	0.50	mg/L	6.25		104	85-115			
Sodium	6.29	0.26	mg/L	6.25		101	85-115			

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BED3276 - EPA 200.2										
LCS (BED3276-BS2)										
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 16:51										
Antimony	0.071	0.005	mg/L	0.0625		113	85-115			
Molybdenum	0.06	0.01	mg/L	0.0625		104	85-115			
Arsenic	0.0644	0.0010	mg/L	0.0625		103	85-115			
Barium	0.065	0.004	mg/L	0.0625		104	85-115			
Beryllium	0.0653	0.0020	mg/L	0.0625		104	85-115			
Cadmium	0.0646	0.0010	mg/L	0.0625		103	85-115			
Chromium	0.0651	0.0020	mg/L	0.0625		104	85-115			
Cobalt	0.065	0.004	mg/L	0.0625		104	85-115			
Copper	0.065	0.003	mg/L	0.0625		104	85-115			
Lead	0.062	0.002	mg/L	0.0625		98.9	85-115			
Lithium	0.06	0.02	mg/L	0.0625		102	85-115			
Nickel	0.065	0.003	mg/L	0.0625		104	85-115			
Selenium	0.064	0.003	mg/L	0.0625		103	85-115			
Thallium	0.0622	0.0020	mg/L	0.0625		99.5	85-115			
Zinc	0.07	0.02	mg/L	0.0625		120	85-115			L1
Matrix Spike (BED3276-MS1) **Source: 5045708-01**										
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 18:34										
Boron	ND	1.00	mg/L	0.125	ND		80-120			D2, M2, U
Calcium	166	5.00	mg/L	6.25	154	185	80-120			D2, M3
Iron	8.50	1.00	mg/L	6.25	1.74	108	80-120			D2
Magnesium	40.1	2.00	mg/L	6.25	29.7	166	80-120			D2, M1
Potassium	10.8	5.00	mg/L	6.25	5.18	89.4	80-120			D2
Sodium	951	2.60	mg/L	6.25	955	NR	80-120			D2, M3
Matrix Spike (BED3276-MS2) **Source: 5045708-01**										
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 17:35										
Molybdenum	0.06	0.01	mg/L	0.0625	ND	100	80-120			
Antimony	0.072	0.005	mg/L	0.0625	ND	114	80-120			
Arsenic	0.0634	0.0010	mg/L	0.0625	ND	101	80-120			
Barium	0.152	0.004	mg/L	0.0625	0.088	102	80-120			
Beryllium	0.0639	0.0020	mg/L	0.0625	ND	102	80-120			
Cadmium	0.0589	0.0010	mg/L	0.0625	ND	94.3	80-120			
Chromium	0.0653	0.0020	mg/L	0.0625	ND	105	80-120			
Cobalt	0.061	0.004	mg/L	0.0625	ND	98.4	80-120			
Copper	0.058	0.003	mg/L	0.0625	ND	93.1	80-120			
Lead	0.057	0.002	mg/L	0.0625	ND	91.9	80-120			
Lithium	0.10	0.02	mg/L	0.0625	0.04	106	80-120			
Nickel	0.059	0.003	mg/L	0.0625	ND	94.4	80-120			
Selenium	0.057	0.003	mg/L	0.0625	ND	91.5	80-120			
Thallium	0.0577	0.0020	mg/L	0.0625	ND	92.4	80-120			
Zinc	0.06	0.02	mg/L	0.0625	0.004	84.8	80-120			

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BED3276 - EPA 200.2										
Matrix Spike Dup (BED3276-MSD1)	**Source: 5045708-01**									
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 18:37										
Boron	ND	1.00	mg/L	0.125	ND		80-120		20	D2, M2, U
Calcium	166	5.00	mg/L	6.25	154	185	80-120	0.0314	20	D2, M3
Iron	8.41	1.00	mg/L	6.25	1.74	107	80-120	1.05	20	D2
Magnesium	40.0	2.00	mg/L	6.25	29.7	164	80-120	0.242	20	D2, M1
Potassium	11.0	5.00	mg/L	6.25	5.18	93.8	80-120	2.56	20	D2
Sodium	951	2.60	mg/L	6.25	955	NR	80-120	0.0445	20	D2, M3
Matrix Spike Dup (BED3276-MSD2)	**Source: 5045708-01**									
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 17:39										
Antimony	0.070	0.005	mg/L	0.0625	ND	113	80-120	1.57	20	
Molybdenum	0.06	0.01	mg/L	0.0625	ND	97.4	80-120	3.00	20	
Arsenic	0.0624	0.0010	mg/L	0.0625	ND	99.8	80-120	1.67	20	
Barium	0.154	0.004	mg/L	0.0625	0.088	104	80-120	0.945	20	
Beryllium	0.0661	0.0020	mg/L	0.0625	ND	106	80-120	3.39	20	
Cadmium	0.0577	0.0010	mg/L	0.0625	ND	92.3	80-120	2.06	20	
Chromium	0.0644	0.0020	mg/L	0.0625	ND	103	80-120	1.43	20	
Cobalt	0.061	0.004	mg/L	0.0625	ND	96.9	80-120	1.54	20	
Copper	0.057	0.003	mg/L	0.0625	ND	90.5	80-120	2.77	20	
Lead	0.057	0.002	mg/L	0.0625	ND	90.6	80-120	1.45	20	
Lithium	0.11	0.02	mg/L	0.0625	0.04	113	80-120	3.76	20	
Nickel	0.058	0.003	mg/L	0.0625	ND	92.3	80-120	2.27	20	
Selenium	0.057	0.003	mg/L	0.0625	ND	90.8	80-120	0.805	20	
Thallium	0.0570	0.0020	mg/L	0.0625	ND	91.2	80-120	1.21	20	
Zinc	0.06	0.02	mg/L	0.0625	0.004	84.5	80-120	0.321	20	
Post Spike (BED3276-PS1)	**Source: 5045708-01**									
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 18:41										
Boron	587		ug/L	125	445	113	75-125			D2
Calcium	170000		ug/L	6250	154000	251	75-125			D2, M3
Iron	9000		ug/L	6250	1740	116	75-125			D2
Magnesium	41100		ug/L	6250	29700	182	75-125			D2, M1
Potassium	11400		ug/L	6250	5180	99.2	75-125			D2
Sodium	975000		ug/L	6250	955000	327	75-125			D2, M3

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Batch BED3276 - EPA 200.2										
Post Spike (BED3276-PS2) **Source: 5045708-01**										
Prepared: 5/1/2025 8:42, Analyzed: 5/1/2025 17:43										
Molybdenum	62.1		ug/L	62.5	0.17	99.1	75-125			
Antimony	72.2		ug/L	62.5	0.358	115	75-125			
Arsenic	63.9		ug/L	62.5	0.157	102	75-125			
Barium	158		ug/L	62.5	88.4	111	75-125			
Beryllium	66.9		ug/L	62.5	0.0321	107	75-125			
Cadmium	59.6		ug/L	62.5	0.0031	95.3	75-125			
Chromium	66.4		ug/L	62.5	0.345	106	75-125			
Cobalt	61.6		ug/L	62.5	0.082	98.5	75-125			
Copper	57.8		ug/L	62.5	0.174	92.1	75-125			
Lead	57.9		ug/L	62.5	0.008	92.6	75-115			
Lithium	107		ug/L	62.5	37.0	112	75-125			
Nickel	59.0		ug/L	62.5	0.507	93.6	75-125			
Selenium	58.6		ug/L	62.5	0.073	93.6	75-125			
Thallium	58.7		ug/L	62.5	0.0057	93.9	75-125			
Zinc	59.4		ug/L	62.5	4.42	88.0	75-125			
Batch BEE0060 - EPA 200.2										
Blank (BEE0060-BLK1)										
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 18:47										
Boron	ND	0.10	mg/L							U
Calcium	ND	0.50	mg/L							U
Iron	0.074	0.100	mg/L							J
Magnesium	ND	0.200	mg/L							U
Potassium	ND	0.50	mg/L							U
Sodium	ND	0.26	mg/L							U
Blank (BEE0060-BLK2)										
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 19:22										
Molybdenum	ND	0.01	mg/L							U
Antimony	ND	0.005	mg/L							U
Arsenic	ND	0.0010	mg/L							U
Barium	ND	0.004	mg/L							U
Beryllium	ND	0.0020	mg/L							U
Cadmium	ND	0.0010	mg/L							U
Chromium	ND	0.0020	mg/L							U
Cobalt	ND	0.004	mg/L							U
Copper	ND	0.003	mg/L							U
Lead	ND	0.002	mg/L							U
Lithium	ND	0.02	mg/L							U
Nickel	ND	0.003	mg/L							U
Selenium	ND	0.003	mg/L							U
Thallium	ND	0.0020	mg/L							U
Zinc	ND	0.02	mg/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0060 - EPA 200.2										
LCS (BEE0060-BS1)										
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 18:50										
Boron	0.13	0.10	mg/L	0.125		103	85-115			
Calcium	6.27	0.50	mg/L	6.25		100	85-115			
Iron	6.53	0.100	mg/L	6.25		105	85-115			
Magnesium	6.53	0.200	mg/L	6.25		104	85-115			
Potassium	6.22	0.50	mg/L	6.25		99.5	85-115			
Sodium	5.99	0.26	mg/L	6.25		95.8	85-115			
LCS (BEE0060-BS2)										
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 19:25										
Molybdenum	0.06	0.01	mg/L	0.0625		104	85-115			
Antimony	0.070	0.005	mg/L	0.0625		112	85-115			
Arsenic	0.0640	0.0010	mg/L	0.0625		102	85-115			
Barium	0.065	0.004	mg/L	0.0625		104	85-115			
Beryllium	0.0627	0.0020	mg/L	0.0625		100	85-115			
Cadmium	0.0644	0.0010	mg/L	0.0625		103	85-115			
Chromium	0.0645	0.0020	mg/L	0.0625		103	85-115			
Cobalt	0.064	0.004	mg/L	0.0625		102	85-115			
Copper	0.064	0.003	mg/L	0.0625		103	85-115			
Lead	0.061	0.002	mg/L	0.0625		97.3	85-115			
Lithium	0.06	0.02	mg/L	0.0625		100	85-115			
Nickel	0.064	0.003	mg/L	0.0625		102	85-115			
Selenium	0.063	0.003	mg/L	0.0625		101	85-115			
Thallium	0.0615	0.0020	mg/L	0.0625		98.4	85-115			
Zinc	0.06	0.02	mg/L	0.0625		103	85-115			
Matrix Spike (BEE0060-MS1) **Source: 5044390-11**										
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 21:09										
Boron	1.14	1.00	mg/L	0.125	ND	911	80-120			D2, M1
Calcium	659	5.00	mg/L	6.25	789	NR	80-120			D2, M3
Iron	15.4	1.00	mg/L	6.25	8.51	110	80-120			D2
Magnesium	281	2.00	mg/L	6.25	374	NR	80-120			D2, M3
Potassium	16.4	5.00	mg/L	6.25	9.82	106	80-120			D2
Sodium	118	2.60	mg/L	6.25	138	NR	80-120			D2, M3

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0060 - EPA 200.2										
Matrix Spike (BEE0060-MS2)	**Source: 5044390-11**									
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 21:23										
Molybdenum	0.07	0.10	mg/L	0.0625	ND	113	80-120			D2, J
Antimony	0.072	0.050	mg/L	0.0625	ND	116	80-120			D2
Arsenic	0.0646	0.0100	mg/L	0.0625	ND	103	80-120			D2
Barium	0.075	0.040	mg/L	0.0625	0.013	99.3	80-120			D2
Beryllium	0.0572	0.0200	mg/L	0.0625	ND	91.5	80-120			D2
Cadmium	0.0609	0.0100	mg/L	0.0625	ND	97.5	80-120			D2
Chromium	0.0612	0.0200	mg/L	0.0625	ND	98.0	80-120			
Cobalt	0.066	0.040	mg/L	0.0625	ND	106	80-120			D2
Copper	0.061	0.030	mg/L	0.0625	ND	98.1	80-120			D2
Lead	0.059	0.020	mg/L	0.0625	ND	94.9	80-120			D2
Lithium	0.10	0.20	mg/L	0.0625	ND	167	80-120			D2, M1, J
Nickel	0.066	0.030	mg/L	0.0625	ND	105	80-120			D2
Selenium	0.060	0.030	mg/L	0.0625	ND	96.1	80-120			D2
Thallium	0.0592	0.0200	mg/L	0.0625	ND	94.7	80-120			D2
Zinc	0.07	0.20	mg/L	0.0625	ND	114	80-120			D2, J
Matrix Spike Dup (BEE0060-MSD1)	**Source: 5044390-11**									
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 21:12										
Boron	1.16	1.00	mg/L	0.125	ND	926	80-120	1.64	20	D2, M1
Calcium	661	5.00	mg/L	6.25	789	NR	80-120	0.292	20	D2, M3
Iron	15.5	1.00	mg/L	6.25	8.51	111	80-120	0.628	20	D2
Magnesium	281	2.00	mg/L	6.25	374	NR	80-120	0.291	20	D2, M3
Potassium	16.7	5.00	mg/L	6.25	9.82	110	80-120	1.72	20	D2
Sodium	118	2.60	mg/L	6.25	138	NR	80-120	0.358	20	D2, M3
Matrix Spike Dup (BEE0060-MSD2)	**Source: 5044390-11**									
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 21:45										
Antimony	0.076	0.050	mg/L	0.0625	ND	121	80-120	4.64	20	D2, M1
Molybdenum	0.07	0.10	mg/L	0.0625	ND	117	80-120	3.25	20	D2, J
Arsenic	0.0695	0.0100	mg/L	0.0625	ND	111	80-120	7.22	20	D2
Barium	0.080	0.040	mg/L	0.0625	0.013	108	80-120	7.00	20	D2
Beryllium	0.0645	0.0200	mg/L	0.0625	ND	103	80-120	12.0	20	D2
Cadmium	0.0644	0.0100	mg/L	0.0625	ND	103	80-120	5.49	20	D2
Chromium	0.0654	0.0200	mg/L	0.0625	ND	105	80-120	6.50	20	
Cobalt	0.071	0.040	mg/L	0.0625	ND	113	80-120	6.38	20	D2
Copper	0.065	0.030	mg/L	0.0625	ND	105	80-120	6.47	20	D2
Lead	0.063	0.020	mg/L	0.0625	ND	100	80-120	5.52	20	D2
Lithium	0.11	0.20	mg/L	0.0625	ND	184	80-120	9.28	20	D2, M1, J
Nickel	0.069	0.030	mg/L	0.0625	ND	111	80-120	5.57	20	D2
Selenium	0.064	0.030	mg/L	0.0625	ND	102	80-120	5.86	20	D2
Thallium	0.0618	0.0200	mg/L	0.0625	ND	98.9	80-120	4.26	20	D2
Zinc	0.08	0.20	mg/L	0.0625	ND	125	80-120	9.34	20	D2, M1, J

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0060 - EPA 200.2										
Post Spike (BEE0060-PS1)	**Source: 5044390-11**									
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 21:15										
Boron	1120		ug/L	125	961	125	75-125			D2
Calcium	640000		ug/L	6250	789000	NR	75-125			D2, M3
Iron	15000		ug/L	6250	8510	104	75-125			D2
Magnesium	275000		ug/L	6250	374000	NR	75-125			D2, M3
Potassium	16200		ug/L	6250	9820	103	75-125			D2
Sodium	115000		ug/L	6250	138000	NR	75-125			D2, M3
Post Spike (BEE0060-PS2)	**Source: 5044390-11**									
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 21:49										
Molybdenum	71.4		ug/L	62.5	4.67	107	75-125			D2
Antimony	74.1		ug/L	62.5	0.261	118	75-125			D2
Arsenic	68.2		ug/L	62.5	3.15	104	75-125			D2
Barium	78.7		ug/L	62.5	12.9	105	75-125			D2
Beryllium	63.5		ug/L	62.5	0.0533	102	75-125			D2
Cadmium	64.8		ug/L	62.5	0.0470	104	75-125			D2
Chromium	64.6		ug/L	62.5	0.627	102	75-125			
Cobalt	69.9		ug/L	62.5	5.50	103	75-125			D2
Copper	64.6		ug/L	62.5	0.681	102	75-125			D2
Lead	62.0		ug/L	62.5	0.669	98.2	75-115			D2
Lithium	112		ug/L	62.5	37.6	119	75-125			D2
Nickel	68.9		ug/L	62.5	4.89	102	75-125			D2
Selenium	64.7		ug/L	62.5	0.831	102	75-125			D2
Thallium	63.1		ug/L	62.5	0.0359	101	75-125			D2
Zinc	73.3		ug/L	62.5	13.2	96.3	75-125			D2
Batch BEE0063 - EPA 200.2										
Blank (BEE0063-BLK1)										
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 21:56										
Molybdenum	ND	0.01	mg/L							U
Antimony	ND	0.005	mg/L							U
Arsenic	ND	0.0010	mg/L							U
Barium	ND	0.004	mg/L							U
Beryllium	ND	0.0020	mg/L							U
Cadmium	ND	0.0010	mg/L							U
Chromium	ND	0.0020	mg/L							U
Cobalt	ND	0.004	mg/L							U
Copper	ND	0.003	mg/L							U
Lead	ND	0.002	mg/L							U
Lithium	ND	0.02	mg/L							U
Nickel	ND	0.003	mg/L							U
Selenium	ND	0.003	mg/L							U
Thallium	ND	0.0020	mg/L							U
Zinc	ND	0.02	mg/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0063 - EPA 200.2										
Blank (BEE0063-BLK2)										
Prepared: 5/1/2025 11:00, Analyzed: 5/5/2025 13:34										
Boron	ND	0.10	mg/L							U
Calcium	ND	0.50	mg/L							U
Iron	ND	0.100	mg/L							U
Magnesium	ND	0.200	mg/L							U
Potassium	ND	0.50	mg/L							U
Sodium	ND	0.26	mg/L							U
LCS (BEE0063-BS1)										
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 22:00										
Molybdenum	0.07	0.01	mg/L	0.0625		106	85-115			
Antimony	0.069	0.005	mg/L	0.0625		111	85-115			
Arsenic	0.0642	0.0010	mg/L	0.0625		103	85-115			
Barium	0.065	0.004	mg/L	0.0625		104	85-115			
Beryllium	0.0633	0.0020	mg/L	0.0625		101	85-115			
Cadmium	0.0641	0.0010	mg/L	0.0625		102	85-115			
Chromium	0.0643	0.0020	mg/L	0.0625		103	85-115			
Cobalt	0.065	0.004	mg/L	0.0625		104	85-115			
Copper	0.066	0.003	mg/L	0.0625		105	85-115			
Lead	0.062	0.002	mg/L	0.0625		98.9	85-115			
Lithium	0.07	0.02	mg/L	0.0625		106	85-115			
Nickel	0.065	0.003	mg/L	0.0625		104	85-115			
Selenium	0.063	0.003	mg/L	0.0625		101	85-115			
Thallium	0.0624	0.0020	mg/L	0.0625		99.8	85-115			
Zinc	0.06	0.02	mg/L	0.0625		104	85-115			
LCS (BEE0063-BS2)										
Prepared: 5/1/2025 11:00, Analyzed: 5/5/2025 13:38										
Boron	0.11	0.10	mg/L	0.125		88.9	85-115			
Calcium	6.44	0.50	mg/L	6.25		103	85-115			
Iron	6.29	0.100	mg/L	6.25		101	85-115			
Magnesium	6.32	0.200	mg/L	6.25		101	85-115			
Potassium	5.53	0.50	mg/L	6.25		88.5	85-115			
Sodium	6.15	0.26	mg/L	6.25		98.5	85-115			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0063 - EPA 200.2										
Matrix Spike (BEE0063-MS1)	**Source: 5044390-21**									
Prepared: 5/1/2025 11:00, Analyzed: 5/1/2025 23:58										
Antimony	0.080	0.050	mg/L	0.0625	ND	128	80-120			D2, M1
Molybdenum	0.08	0.10	mg/L	0.0625	ND	125	80-120			D2, M1, J
Arsenic	0.0673	0.0100	mg/L	0.0625	ND	108	80-120			D2
Barium	0.092	0.040	mg/L	0.0625	0.022	112	80-120			D2
Beryllium	0.0691	0.0200	mg/L	0.0625	ND	111	80-120			D2
Cadmium	0.0677	0.0100	mg/L	0.0625	ND	108	80-120			D2
Chromium	0.0642	0.0200	mg/L	0.0625	ND	103	80-120			D2
Cobalt	0.087	0.040	mg/L	0.0625	ND	139	80-120			D2, M1
Copper	0.066	0.030	mg/L	0.0625	ND	106	80-120			D2
Lead	0.064	0.020	mg/L	0.0625	ND	103	80-120			D2
Lithium	0.17	0.20	mg/L	0.0625	0.07	164	80-120			D2, M1, J
Nickel	0.100	0.030	mg/L	0.0625	0.031	110	80-120			D2
Selenium	0.066	0.030	mg/L	0.0625	ND	105	80-120			D2
Thallium	0.0643	0.0200	mg/L	0.0625	ND	103	80-120			D2
Zinc	0.08	0.20	mg/L	0.0625	ND	129	80-120			D2, M1, J
Matrix Spike (BEE0063-MS2)	**Source: 5044390-21**									
Prepared: 5/1/2025 11:00, Analyzed: 5/5/2025 15:56										
Boron	3.12	1.00	mg/L	0.125	2.90	174	80-120			D2, M1
Calcium	564	5.00	mg/L	6.25	523	660	80-120			D2, M3
Iron	41.6	1.00	mg/L	6.25	30.3	181	80-120			D2, M1
Magnesium	126	2.00	mg/L	6.25	131	NR	80-120			D2, M3
Potassium	18.0	5.00	mg/L	6.25	10.5	120	80-120			D2, M1
Sodium	115	2.60	mg/L	6.25	94.7	331	80-120			D2, M3
Matrix Spike Dup (BEE0063-MSD1)	**Source: 5044390-21**									
Prepared: 5/1/2025 11:00, Analyzed: 5/2/2025 0:20										
Molybdenum	0.08	0.10	mg/L	0.0625	ND	122	80-120	2.48	20	D2, M1, J
Antimony	0.076	0.050	mg/L	0.0625	ND	122	80-120	5.27	20	D2, M1
Arsenic	0.0685	0.0100	mg/L	0.0625	ND	110	80-120	1.75	20	D2
Barium	0.091	0.040	mg/L	0.0625	0.022	110	80-120	1.50	20	D2
Beryllium	0.0645	0.0200	mg/L	0.0625	ND	103	80-120	6.94	20	D2
Cadmium	0.0648	0.0100	mg/L	0.0625	ND	104	80-120	4.30	20	D2
Chromium	0.0642	0.0200	mg/L	0.0625	ND	103	80-120	0.0612	20	D2
Cobalt	0.087	0.040	mg/L	0.0625	ND	139	80-120	0.0872	20	D2, M1
Copper	0.066	0.030	mg/L	0.0625	ND	106	80-120	0.366	20	D2
Lead	0.063	0.020	mg/L	0.0625	ND	100	80-120	2.63	20	D2
Lithium	0.16	0.20	mg/L	0.0625	0.07	151	80-120	4.89	20	D2, M1, J
Nickel	0.102	0.030	mg/L	0.0625	0.031	113	80-120	1.53	20	D2
Selenium	0.064	0.030	mg/L	0.0625	ND	102	80-120	2.96	20	D2
Thallium	0.0626	0.0200	mg/L	0.0625	ND	100	80-120	2.63	20	D2
Zinc	0.08	0.20	mg/L	0.0625	ND	129	80-120	0.261	20	D2, M1, J

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0063 - EPA 200.2										
Matrix Spike Dup (BEE0063-MSD2)	**Source: 5044390-21**									
Prepared: 5/1/2025 11:00, Analyzed: 5/5/2025 15:59										
Boron	3.12	1.00	mg/L	0.125	2.90	173	80-120	0.0289	20	D2, M1
Calcium	564	5.00	mg/L	6.25	523	659	80-120	0.00689	20	D2, M3
Iron	41.4	1.00	mg/L	6.25	30.3	178	80-120	0.426	20	D2, M1
Magnesium	126	2.00	mg/L	6.25	131	NR	80-120	0.252	20	D2, M3
Potassium	17.8	5.00	mg/L	6.25	10.5	117	80-120	0.989	20	D2, M1
Sodium	115	2.60	mg/L	6.25	94.7	330	80-120	0.0375	20	D2, M3
Post Spike (BEE0063-PS1)	**Source: 5044390-21**									
Prepared: 5/1/2025 11:00, Analyzed: 5/2/2025 0:24										
Molybdenum	82.7		ug/L	62.5	7.97	120	75-125			D2
Antimony	78.9		ug/L	62.5	0.462	125	75-125			D2
Arsenic	73.5		ug/L	62.5	2.30	114	75-125			D2
Barium	99.7		ug/L	62.5	22.4	124	75-125			D2
Beryllium	73.5		ug/L	62.5	0.140	117	75-125			D2
Cadmium	71.8		ug/L	62.5	0.0257	115	75-125			D2
Chromium	69.9		ug/L	62.5	0.210	111	75-125			D2
Cobalt	94.9		ug/L	62.5	20.1	120	75-125			D2
Copper	72.3		ug/L	62.5	1.66	113	75-125			D2
Lead	69.2		ug/L	62.5	0.052	111	75-115			D2
Lithium	174		ug/L	62.5	66.4	172	75-125			D2, M1
Nickel	108		ug/L	62.5	31.3	123	75-125			D2
Selenium	70.1		ug/L	62.5	0.646	111	75-125			D2
Thallium	69.1		ug/L	62.5	0.0471	110	75-125			D2
Zinc	88.8		ug/L	62.5	27.7	97.7	75-125			D2
Post Spike (BEE0063-PS2)	**Source: 5044390-21**									
Prepared: 5/1/2025 11:00, Analyzed: 5/5/2025 16:03										
Boron	3060		ug/L	125	2900	127	75-125			D2, M1
Calcium	556000		ug/L	6250	523000	516	75-125			D2, M3
Iron	40900		ug/L	6250	30300	170	75-125			D2, M1
Magnesium	124000		ug/L	6250	131000	NR	75-125			D2, M3
Potassium	17700		ug/L	6250	10500	116	75-125			D2, M1
Sodium	114000		ug/L	6250	94700	302	75-125			D2, M3

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Metals by EPA 200 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0059 - Default Prep Metals										
Blank (BEE0059-BLK1)										
Prepared: 5/1/2025 9:41, Analyzed: 5/1/2025 12:28										
Mercury	ND	5.0	ng/L							U
Blank (BEE0059-BLK2)										
Prepared: 5/1/2025 9:41, Analyzed: 5/1/2025 12:35										
Mercury	ND	5.0	ng/L							U
Blank (BEE0059-BLK3)										
Prepared: 5/1/2025 9:41, Analyzed: 5/1/2025 12:43										
Mercury	ND	5.0	ng/L							U
LCS (BEE0059-BS1)										
Prepared: 5/1/2025 9:41, Analyzed: 5/1/2025 12:50										
Mercury	52.0	5.0	ng/L	50.0		104	76-113			
Matrix Spike (BEE0059-MS1) **Source: 5044390-11**										
Prepared: 5/1/2025 9:41, Analyzed: 5/1/2025 15:57										
Mercury	26.1	5.0	ng/L	50.0	ND	52.2	63-111			M2
Matrix Spike (BEE0059-MS2) **Source: 5044390-03**										
Prepared: 5/1/2025 9:41, Analyzed: 5/1/2025 16:12										
Mercury	16.9	5.0	ng/L	50.0	ND	33.8	63-111			M2
Matrix Spike Dup (BEE0059-MSD1) **Source: 5044390-11**										
Prepared: 5/1/2025 9:41, Analyzed: 5/1/2025 16:05										
Mercury	33.3	5.0	ng/L	50.0	ND	66.6	63-111	24.2	18	Y2
Matrix Spike Dup (BEE0059-MSD2) **Source: 5044390-03**										
Prepared: 5/1/2025 9:41, Analyzed: 5/1/2025 16:20										
Mercury	15.4	5.0	ng/L	50.0	ND	30.8	63-111	9.29	18	M2
Batch BEE0180 - Default Prep Metals										
Blank (BEE0180-BLK1)										
Prepared: 5/2/2025 8:12, Analyzed: 5/2/2025 10:36										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0180 - Default Prep Metals										
Blank (BEE0180-BLK2)										
Prepared: 5/2/2025 8:12, Analyzed: 5/2/2025 10:44										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEE0180-BLK3)										
Prepared: 5/2/2025 8:12, Analyzed: 5/2/2025 10:51										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
LCS (BEE0180-BS1)										
Prepared: 5/2/2025 8:12, Analyzed: 5/2/2025 10:59										
Mercury	55.2	5.0	ng/L	50.0		110	76-113			
Mercury	55.2	5.0	ng/L	50.0		110	76-113			
Matrix Spike (BEE0180-MS1) **Source: 5044390-25**										
Prepared: 5/2/2025 8:12, Analyzed: 5/2/2025 13:43										
Mercury	41.5	5.0	ng/L	50.0	ND	83.0	63-111			
Mercury	41.5	5.0	ng/L	50.0	ND	83.0	63-111			
Matrix Spike (BEE0180-MS2) **Source: 5044390-09**										
Prepared: 5/2/2025 8:12, Analyzed: 5/2/2025 13:58										
Mercury	36.5	5.0	ng/L	50.0	ND	73.0	63-111			
Mercury	36.5	5.0	ng/L	50.0	ND	73.0	63-111			
Matrix Spike Dup (BEE0180-MSD1) **Source: 5044390-25**										
Prepared: 5/2/2025 8:12, Analyzed: 5/2/2025 13:51										
Mercury	34.9	5.0	ng/L	50.0	ND	69.8	63-111	17.3	18	
Mercury	34.9	5.0	ng/L	50.0	ND	69.8	63-111	17.3	18	
Matrix Spike Dup (BEE0180-MSD2) **Source: 5044390-09**										
Prepared: 5/2/2025 8:12, Analyzed: 5/2/2025 14:06										
Mercury	36.4	5.0	ng/L	50.0	ND	72.8	63-111	0.274	18	
Mercury	36.4	5.0	ng/L	50.0	ND	72.8	63-111	0.274	18	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0206 - Default Prep Metals										
Blank (BEE0206-BLK1)										
Prepared: 5/2/2025 10:09, Analyzed: 5/2/2025 15:55										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEE0206-BLK2)										
Prepared: 5/2/2025 10:09, Analyzed: 5/2/2025 16:02										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEE0206-BLK3)										
Prepared: 5/2/2025 10:09, Analyzed: 5/2/2025 16:10										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
LCS (BEE0206-BS1)										
Prepared: 5/2/2025 10:09, Analyzed: 5/2/2025 16:17										
Mercury	49.7	5.0	ng/L	50.0		99.4	76-113			
Mercury	49.7	5.0	ng/L	50.0		99.4	76-113			
Matrix Spike (BEE0206-MS1)	**Source: 5044390-12**									
Prepared: 5/2/2025 10:09, Analyzed: 5/2/2025 19:24										
Mercury	51.9	5.0	ng/L	50.0	ND	104	63-111			
Mercury	51.9	5.0	ng/L	50.0	ND	104	63-111			
Matrix Spike (BEE0206-MS2)	**Source: 5044390-35**									
Prepared: 5/2/2025 10:09, Analyzed: 5/2/2025 19:39										
Mercury	29.8	5.0	ng/L	50.0	ND	59.6	63-111			
Mercury	29.8	5.0	ng/L	50.0	ND	59.6	63-111			
Matrix Spike Dup (BEE0206-MSD1)	**Source: 5044390-12**									
Prepared: 5/2/2025 10:09, Analyzed: 5/2/2025 19:32										
Mercury	48.8	5.0	ng/L	50.0	ND	97.6	63-111	6.16	18	
Mercury	48.8	5.0	ng/L	50.0	ND	97.6	63-111	6.16	18	
Matrix Spike Dup (BEE0206-MSD2)	**Source: 5044390-35**									
Prepared: 5/2/2025 10:09, Analyzed: 5/2/2025 19:47										
Mercury	34.7	5.0	ng/L	50.0	ND	69.4	63-111	15.2	18	
Mercury	34.7	5.0	ng/L	50.0	ND	69.4	63-111	15.2	18	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0278 - Default Prep Metals										
Blank (BEE0278-BLK1)										
Prepared: 5/3/2025 7:30, Analyzed: 5/3/2025 13:04										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEE0278-BLK2)										
Prepared: 5/3/2025 7:30, Analyzed: 5/3/2025 13:12										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEE0278-BLK3)										
Prepared: 5/3/2025 7:30, Analyzed: 5/3/2025 13:19										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
LCS (BEE0278-BS1)										
Prepared: 5/3/2025 7:30, Analyzed: 5/3/2025 13:27										
Mercury	49.3	5.0	ng/L	50.0		98.6	76-113			
Mercury	49.3	5.0	ng/L	50.0		98.6	76-113			
Matrix Spike (BEE0278-MS1)	**Source: 5044390-41**									
Prepared: 5/3/2025 7:30, Analyzed: 5/3/2025 16:41										
Mercury	31.3	5.0	ng/L	50.0	ND	62.6	63-111			M2
Mercury	31.3	5.0	ng/L	50.0	ND	62.6	63-111			M2
Matrix Spike (BEE0278-MS2)	**Source: 5044390-27**									
Prepared: 5/3/2025 7:30, Analyzed: 5/3/2025 16:56										
Mercury	30.7	5.0	ng/L	50.0	ND	61.4	63-111			
Mercury	30.7	5.0	ng/L	50.0	ND	61.4	63-111			
Matrix Spike Dup (BEE0278-MSD1)	**Source: 5044390-41**									
Prepared: 5/3/2025 7:30, Analyzed: 5/3/2025 16:49										
Mercury	39.5	5.0	ng/L	50.0	ND	79.0	63-111	23.2	18	Y1
Mercury	39.5	5.0	ng/L	50.0	ND	79.0	63-111	23.2	18	Y1
Matrix Spike Dup (BEE0278-MSD2)	**Source: 5044390-27**									
Prepared: 5/3/2025 7:30, Analyzed: 5/3/2025 17:03										
Mercury	36.7	5.0	ng/L	50.0	ND	73.4	63-111	17.8	18	
Mercury	36.7	5.0	ng/L	50.0	ND	73.4	63-111	17.8	18	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BED3315 - Default Prep Micro										
Blank (BED3315-BLK1)										
Prepared: 5/1/2025 13:25, Analyzed: 5/1/2025 13:34										
Specific Conductance (Lab)	ND	1	uS/cm @ 25.0 °C							U
LCS (BED3315-BS1)										
Prepared: 5/1/2025 13:25, Analyzed: 5/1/2025 13:34										
Specific Conductance (Lab)	1450		uS/cm @ 25.0 °C	1410		103	90-110			
Duplicate (BED3315-DUP1)	**Source: 5044390-11**									
Prepared: 5/1/2025 13:25, Analyzed: 5/1/2025 13:34										
Specific Conductance (Lab)	4960	1	uS/cm @ 25.0 °C		4960			0.00	0.938	
Duplicate (BED3315-DUP2)	**Source: 5046156-01**									
Prepared: 5/1/2025 13:25, Analyzed: 5/1/2025 13:34										
Specific Conductance (Lab)	318	1	uS/cm @ 25.0 °C		317			0.315	0.938	
Batch BED3316 - Default Prep Micro										
Blank (BED3316-BLK1)										
Prepared: 5/1/2025 9:00, Analyzed: 5/1/2025 13:34										
Specific Conductance (Lab)	ND	1	uS/cm @ 25.0 °C							U
LCS (BED3316-BS1)										
Prepared: 5/1/2025 9:00, Analyzed: 5/1/2025 13:34										
Specific Conductance (Lab)	1440		uS/cm @ 25.0 °C	1410		102	90-110			
Duplicate (BED3316-DUP1)	**Source: 5052458-01**									
Prepared: 5/1/2025 9:00, Analyzed: 5/1/2025 13:34										
Specific Conductance (Lab)	583	1	uS/cm @ 25.0 °C		580			0.516	0.938	
Batch BEE0214 - Default Prep Wet Chem										
Blank (BEE0214-BLK1)										
Prepared: 5/2/2025 16:17, Analyzed: 5/2/2025 16:17										
Total Dissolved Solids	ND	25	mg/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0214 - Default Prep Wet Chem										
LCS (BEE0214-BS1)										
Prepared: 5/2/2025 16:17, Analyzed: 5/2/2025 16:17										
Total Dissolved Solids	87		mg/L	90.0		96.7	80-120			
Duplicate (BEE0214-DUP1)	**Source: 5044390-11**									
Prepared: 5/2/2025 16:17, Analyzed: 5/2/2025 16:17										
Total Dissolved Solids	3510	250	mg/L		3540			0.851	10	
Duplicate (BEE0214-DUP2)	**Source: 5044390-37**									
Prepared: 5/2/2025 16:17, Analyzed: 5/2/2025 16:17										
Total Dissolved Solids	564	100	mg/L		568			0.707	10	
Batch BEE0216 - Default Prep Wet Chem										
Blank (BEE0216-BLK1)										
Prepared: 5/2/2025 17:04, Analyzed: 5/2/2025 17:04										
Total Dissolved Solids	ND	25	mg/L							U
LCS (BEE0216-BS1)										
Prepared: 5/2/2025 17:04, Analyzed: 5/2/2025 17:04										
Total Dissolved Solids	87		mg/L	90.0		96.7	80-120			
Duplicate (BEE0216-DUP1)	**Source: 5045708-01**									
Prepared: 5/2/2025 17:04, Analyzed: 5/2/2025 17:04										
Total Dissolved Solids	1990	250	mg/L		2070			3.94	10	
Duplicate (BEE0216-DUP2)	**Source: 5046156-01**									
Prepared: 5/2/2025 17:04, Analyzed: 5/2/2025 17:04										
Total Dissolved Solids	146	25	mg/L		149			2.03	10	
Batch BEE0380 - Default Prep Wet Chem										
Blank (BEE0380-BLK1)										
Prepared: 5/5/2025 14:22, Analyzed: 5/5/2025 14:22										
Carbonate Alkalinity as CaCO3	ND	4	mg/L							U
Bicarbonate Alkalinity as CaCO3	ND	4	mg/L							U
Total Alkalinity	ND	4	mg/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0380 - Default Prep Wet Chem										
Blank (BEE0380-BLK2)										
Prepared: 5/5/2025 15:49, Analyzed: 5/5/2025 15:49										
Bicarbonate Alkalinity as CaCO3	ND	4	mg/L							U
Total Alkalinity	ND	4	mg/L							U
Carbonate Alkalinity as CaCO3	ND	4	mg/L							U
Blank (BEE0380-BLK3)										
Prepared: 5/5/2025 17:11, Analyzed: 5/5/2025 17:11										
Carbonate Alkalinity as CaCO3	ND	4	mg/L							U
Total Alkalinity	ND	4	mg/L							U
Bicarbonate Alkalinity as CaCO3	ND	4	mg/L							U
LCS (BEE0380-BS1)										
Prepared: 5/5/2025 15:44, Analyzed: 5/5/2025 15:44										
Total Alkalinity	257	4	mg/L	250		103	80-120			
Carbonate Alkalinity as CaCO3	17	4	mg/L	14.4		117	0-200			
Bicarbonate Alkalinity as CaCO3	240	4	mg/L	237		101	0-200			
LCS (BEE0380-BS2)										
Prepared: 5/5/2025 17:06, Analyzed: 5/5/2025 17:06										
Carbonate Alkalinity as CaCO3	17	4	mg/L	14.4		119	0-200			
Total Alkalinity	257	4	mg/L	250		103	80-120			
Bicarbonate Alkalinity as CaCO3	240	4	mg/L	237		101	0-200			
Duplicate (BEE0380-DUP1)	**Source: 5044390-11**									
Prepared: 5/5/2025 15:29, Analyzed: 5/5/2025 15:29										
Total Alkalinity	481	4	mg/L		485			0.931	10	
Carbonate Alkalinity as CaCO3	ND	4	mg/L		ND				10	U
Bicarbonate Alkalinity as CaCO3	481	4	mg/L		485			0.931	10	
Duplicate (BEE0380-DUP2)	**Source: 5044390-33**									
Prepared: 5/5/2025 16:54, Analyzed: 5/5/2025 16:54										
Bicarbonate Alkalinity as CaCO3	312	4	mg/L		310			0.706	10	
Total Alkalinity	312	4	mg/L		310			0.706	10	
Carbonate Alkalinity as CaCO3	ND	4	mg/L		ND				10	U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0380 - Default Prep Wet Chem										
Matrix Spike (BEE0380-MS1)	**Source: 5044390-11**									
Prepared: 5/5/2025 15:36, Analyzed: 5/5/2025 15:36										
Total Alkalinity	483	4	mg/L	50.0	485	NR	80-120			M3
Matrix Spike (BEE0380-MS2)	**Source: 5044390-33**									
Prepared: 5/5/2025 17:00, Analyzed: 5/5/2025 17:00										
Total Alkalinity	327	4	mg/L	50.0	310	33.6	80-120			M3
Batch BEE0482 - Default Prep Wet Chem										
Blank (BEE0482-BLK1)										
Prepared: 5/6/2025 11:53, Analyzed: 5/6/2025 11:53										
Total Alkalinity	ND	4	mg/L							U
Carbonate Alkalinity as CaCO3	ND	4	mg/L							U
Bicarbonate Alkalinity as CaCO3	ND	4	mg/L							U
Blank (BEE0482-BLK2)										
Prepared: 5/6/2025 12:55, Analyzed: 5/6/2025 12:55										
Carbonate Alkalinity as CaCO3	ND	4	mg/L							U
Bicarbonate Alkalinity as CaCO3	ND	4	mg/L							U
Total Alkalinity	ND	4	mg/L							U
Blank (BEE0482-BLK3)										
Prepared: 5/6/2025 13:49, Analyzed: 5/6/2025 13:49										
Carbonate Alkalinity as CaCO3	ND	4	mg/L							U
Bicarbonate Alkalinity as CaCO3	ND	4	mg/L							U
Total Alkalinity	ND	4	mg/L							U
LCS (BEE0482-BS1)										
Prepared: 5/6/2025 12:49, Analyzed: 5/6/2025 12:49										
Carbonate Alkalinity as CaCO3	16	4	mg/L	14.4		112	0-200			
Total Alkalinity	251	4	mg/L	250		100	80-120			
Bicarbonate Alkalinity as CaCO3	235	4	mg/L	237		99.0	0-200			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0482 - Default Prep Wet Chem										
LCS (BEE0482-BS2)										
Prepared: 5/6/2025 13:44, Analyzed: 5/6/2025 13:44										
Carbonate Alkalinity as CaCO3	16	4	mg/L	14.4		108	0-200			
Total Alkalinity	252	4	mg/L	250		101	80-120			
Bicarbonate Alkalinity as CaCO3	236	4	mg/L	237		99.6	0-200			
Duplicate (BEE0482-DUP1)	**Source: 5044390-41**									
Prepared: 5/6/2025 12:38, Analyzed: 5/6/2025 12:38										
Carbonate Alkalinity as CaCO3	ND	4	mg/L		ND				10	U
Bicarbonate Alkalinity as CaCO3	280	4	mg/L		278			0.788	10	
Total Alkalinity	280	4	mg/L		278			0.788	10	
Duplicate (BEE0482-DUP2)	**Source: 5050327-02**									
Prepared: 5/6/2025 13:35, Analyzed: 5/6/2025 13:35										
Carbonate Alkalinity as CaCO3	ND	4	mg/L		ND				10	U
Total Alkalinity	181	4	mg/L		178			1.45	10	
Bicarbonate Alkalinity as CaCO3	181	4	mg/L		178			1.45	10	
Matrix Spike (BEE0482-MS1)	**Source: 5044390-41**									
Prepared: 5/6/2025 12:44, Analyzed: 5/6/2025 12:44										
Total Alkalinity	302	4	mg/L	50.0	278	47.2	80-120			M3
Matrix Spike (BEE0482-MS2)	**Source: 5050327-02**									
Prepared: 5/6/2025 13:39, Analyzed: 5/6/2025 13:39										
Total Alkalinity	209	4	mg/L	50.0	178	61.6	80-120			M3
Batch BEE0486 - Default Prep Wet Chem										
Blank (BEE0486-BLK1)										
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	ND	13	mg/L							U
LCS (BEE0486-BS1)										
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	129	13	mg/L	125		103	90-110			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0486 - Default Prep Wet Chem										
Duplicate (BEE0486-DUP1)	**Source: 5045711-05**									
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	65	13	mg/L		60			8.00	25	
Matrix Spike (BEE0486-MS1)	**Source: 5045711-05**									
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	290	13	mg/L	250	60	92.0	90-110			
Matrix Spike Dup (BEE0486-MSD1)	**Source: 5045711-05**									
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	294	13	mg/L	250	60	93.6	90-110	1.37	10	
Batch BEE0489 - Default Prep Wet Chem										
Blank (BEE0489-BLK1)										
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	ND	13	mg/L							U
LCS (BEE0489-BS1)										
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	131	13	mg/L	125		105	90-110			
Duplicate (BEE0489-DUP1)	**Source: 5044390-11**									
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	37	13	mg/L		45			19.5	25	
Matrix Spike (BEE0489-MS1)	**Source: 5044390-11**									
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	271	13	mg/L	250	45	90.4	90-110			
Matrix Spike Dup (BEE0489-MSD1)	**Source: 5044390-11**									
Prepared: 5/7/2025 10:03, Analyzed: 5/7/2025 10:03										
Chemical Oxygen Demand	278	13	mg/L	250	45	93.2	90-110	2.55	10	
Batch BEE0832 - Default Prep Wet Chem										
Blank (BEE0832-BLK1)										
Prepared: 5/8/2025 18:55, Analyzed: 5/8/2025 18:55										
Total Organic Carbon	ND	0.5	mg/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0832 - Default Prep Wet Chem										
LCS (BEE0832-BS1)										
Prepared: 5/8/2025 18:43, Analyzed: 5/8/2025 18:43										
Total Organic Carbon	4.90	0.5	mg/L	5.00		98.1	80-120			
Duplicate (BEE0832-DUP1)	**Source: 5044390-11**									
Prepared: 5/8/2025 22:38, Analyzed: 5/8/2025 22:38										
Total Organic Carbon	2.18	0.5	mg/L		2.24			2.67	25	
Duplicate (BEE0832-DUP2)	**Source: 5044390-35**									
Prepared: 5/9/2025 2:12, Analyzed: 5/9/2025 2:12										
Total Organic Carbon	2.85	0.5	mg/L		3.20			11.6	25	
Matrix Spike (BEE0832-MS1)	**Source: 5044390-11**									
Prepared: 5/8/2025 22:59, Analyzed: 5/8/2025 22:59										
Total Organic Carbon	4.80	0.5	mg/L	2.50	2.24	102	80-120			
Matrix Spike (BEE0832-MS2)	**Source: 5044390-37**									
Prepared: 5/9/2025 2:26, Analyzed: 5/9/2025 2:26										
Total Organic Carbon	5.91	0.5	mg/L	5.00	0.62	106	80-120			
Batch BEE0833 - Default Prep Wet Chem										
Blank (BEE0833-BLK1)										
Prepared: 5/9/2025 2:39, Analyzed: 5/9/2025 2:39										
Total Organic Carbon	ND	0.5	mg/L							U
LCS (BEE0833-BS1)										
Prepared: 5/9/2025 2:54, Analyzed: 5/9/2025 2:54										
Total Organic Carbon	4.87	0.5	mg/L	5.00		97.5	80-120			
Duplicate (BEE0833-DUP1)	**Source: 5045711-05**									
Prepared: 5/9/2025 6:39, Analyzed: 5/9/2025 6:39										
Total Organic Carbon	0.41	0.5	mg/L		0.48			14.6	25	J
Duplicate (BEE0833-DUP2)	**Source: 5051408-01**									
Prepared: 5/9/2025 10:14, Analyzed: 5/9/2025 10:14										
Total Organic Carbon	3.08	0.5	mg/L		3.05			0.816	25	

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Conventional Chemistry Analyses Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0833 - Default Prep Wet Chem										
Matrix Spike (BEE0833-MS1)	**Source: 5045711-05**									
Prepared: 5/9/2025 7:02, Analyzed: 5/9/2025 7:02										
Total Organic Carbon	2.85	0.5	mg/L	2.50	0.48	94.9	80-120			
Matrix Spike (BEE0833-MS2)	**Source: 5051408-02**									
Prepared: 5/9/2025 10:28, Analyzed: 5/9/2025 10:28										
Total Organic Carbon	7.09	0.5	mg/L	5.00	1.71	108	80-120			

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Ion Chromatography Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0056 - Default Prep IC										
Blank (BEE0056-BLK1)										
Prepared: 5/2/2025 7:15, Analyzed: 5/2/2025 7:15										
Chloride	ND	0.5	mg/L							U
Fluoride	ND	0.20	mg/L							U
Sulfate	ND	1.0	mg/L							U
LCS (BEE0056-BS1)										
Prepared: 5/2/2025 6:54, Analyzed: 5/2/2025 6:54										
Fluoride	5.07		mg/L	5.00		101	90-110			
Chloride	12.2		mg/L	12.5		97.9	90-110			
Sulfate	24.6		mg/L	25.0		98.4	90-110			
Matrix Spike (BEE0056-MS1)	**Source: 5044390-11**									
Prepared: 5/2/2025 5:28, Analyzed: 5/2/2025 5:28										
Sulfate	2210		mg/L	500	1420	159	80-120			D, M1
Fluoride	101		mg/L	100	0.12	101	80-120			D
Chloride	544		mg/L	250	249	118	80-120			D
Matrix Spike (BEE0056-MS2)	**Source: 5044390-01**									
Prepared: 5/2/2025 6:11, Analyzed: 5/2/2025 6:11										
Chloride	282		mg/L	250	37.0	97.9	80-120			D
Sulfate	2360		mg/L	500	1780	116	80-120			D
Fluoride	102		mg/L	100	1.06	101	80-120			D
Matrix Spike Dup (BEE0056-MSD1)	**Source: 5044390-11**									
Prepared: 5/2/2025 5:49, Analyzed: 5/2/2025 5:49										
Sulfate	2200		mg/L	500	1420	157	80-120	0.334	20	D, M1
Fluoride	102		mg/L	100	0.12	101	80-120	0.0985	20	D
Chloride	542		mg/L	250	249	118	80-120	0.320	10	D
Matrix Spike Dup (BEE0056-MSD2)	**Source: 5044390-01**									
Prepared: 5/2/2025 6:32, Analyzed: 5/2/2025 6:32										
Sulfate	2350		mg/L	500	1780	114	80-120	0.464	20	D
Chloride	282		mg/L	250	37.0	98.0	80-120	0.0851	10	D
Fluoride	103		mg/L	100	1.06	102	80-120	0.546	20	D

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Ion Chromatography Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEE0058 - Default Prep IC										
Blank (BEE0058-BLK1)										
Prepared: 5/1/2025 15:52, Analyzed: 5/1/2025 15:52										
Chloride	ND	0.5	mg/L							U
Fluoride	ND	0.20	mg/L							U
Sulfate	ND	1.0	mg/L							U
LCS (BEE0058-BS1)										
Prepared: 5/1/2025 15:30, Analyzed: 5/1/2025 15:30										
Fluoride	4.98		mg/L	5.00		99.6	90-110			
Sulfate	24.7		mg/L	25.0		98.9	90-110			
Chloride	12.3		mg/L	12.5		98.5	90-110			
Matrix Spike (BEE0058-MS1)	**Source: 5044390-41**									
Prepared: 5/1/2025 14:47, Analyzed: 5/1/2025 14:47										
Fluoride	105		mg/L	100	0.18	105	80-120			D
Sulfate	1200		mg/L	500	665	107	80-120			D
Chloride	324		mg/L	250	66.7	103	80-120			D
Matrix Spike Dup (BEE0058-MSD1)	**Source: 5044390-41**									
Prepared: 5/1/2025 15:09, Analyzed: 5/1/2025 15:09										
Fluoride	103		mg/L	100	0.18	103	80-120	1.77	20	D
Chloride	321		mg/L	250	66.7	102	80-120	0.930	10	D
Sulfate	1200		mg/L	500	665	107	80-120	0.0750	20	D

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Certified Analyses included in this Report

Analyte	Certifications
2320 B-2011 in Water	
Bicarbonate Alkalinity as CaCO3	KY Drinking Water Mdv (00030) TN Drinking Water (02819) VA NELAC MDV (460210)
Carbonate Alkalinity as CaCO3	KY Drinking Water Mdv (00030) TN Drinking Water (02819) VA NELAC MDV (460210)
Total Alkalinity	KY Drinking Water Mdv (00030) KY Wastewater Mdv (00030) TN Drinking Water (02819) VA NELAC MDV (460210) MS Drinking Water MADV
2510 B-2011 in Water	
Specific Conductance (Lab)	KY Drinking Water Mdv (00030) VA NELAC MDV (460210) TN Drinking Water (02819) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 FL Drinking Water Mdv (E871159)
2540 C-2015 in Water	
Total Dissolved Solids	KY Drinking Water Mdv (00030) VA NELAC MDV (460210) KY Wastewater Mdv (00030) TN Drinking Water (02819) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 MS Drinking Water MADV
5310 C-2014 in Water	
Total Organic Carbon	KY Drinking Water Mdv (00030) VA NELAC MDV (460210) KY Wastewater Mdv (00030) TN Drinking Water (02819) ADEM Drinking Water Mdv (41880) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 MS Drinking Water MADV
EPA 245.7 REV 2 in Water	
Mercury	VA NELAC MDV (460210) KY Wastewater Mdv (00030)
Mercury	VA NELAC MDV (460210) KY Wastewater Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
EPA 300.0 REV 2.1 in Water	
Chloride	KY Drinking Water Mdv (00030) KY Wastewater Mdv (00030) TN Drinking Water (02819) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 MS Drinking Water MADV VA NELAC MDV (460210)
Fluoride	KY Drinking Water Mdv (00030) IN Drinking Water Mdv (C-KY-02) KY Wastewater Mdv (00030) WV Drinking Water Mdv (9959 M) TN Drinking Water (02819) ADEM Drinking Water Mdv (41880) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 VA NELAC MDV (460210) MS Drinking Water MADV
Sulfate	KY Drinking Water Mdv (00030) VA NELAC MDV (460210) KY Wastewater Mdv (00030) TN Drinking Water (02819) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
HACH 8000 in Water	
Chemical Oxygen Demand	KY Wastewater Mdv (00030) VA NELAC MDV (460210) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
SW846 6010 B in Water	
Calcium	VA NELAC MDV (460210)

Sample Acceptance Checklist for Work Order 5044390

Shipped By: Client

Temperature: 4.50° Celcius

Condition	
Check if Custody Seals are Present/Intact	☐
Check if Custody Signatures are Present	☑
Check if Collector Signature Present	☑
Check if bottles are intact	☑
Check if bottles are correct	☑
Check if bottles have sufficient volume	☑
Check if samples received on ice	☑
Check if VOA headspace is acceptable	☐
Check if samples received in holding time.	☑
Check if samples are preserved properly	☑

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May 30, 2025

Rob Whittington
Pace Analytical Madisonville
825 Industrial Rd
Madisonville, KY 42431

RE: Project: 5044390
Pace Project No.: 30776299

Dear Rob Whittington:

Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,

Theresa A. Wilson
theresa.wilson@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Mark Demoss, Pace Analytical Madisonville

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 5044390
Pace Project No.: 30776299

Pace Analytical Services Pennsylvania
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ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: 5044390
Pace Project No.: 30776299

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30776299001	**5044390-01 MW1**	Water	04/28/25 13:55	05/02/25 09:50
30776299002	**5044390-03 MW2**	Water	04/29/25 00:00	05/02/25 09:50
30776299003	**5044390-05 MW3**	Water	04/29/25 00:00	05/02/25 09:50
30776299004	**5044390-07 MW4**	Water	04/29/25 00:00	05/02/25 09:50
30776299005	**5044390-09 MW4D**	Water	04/29/25 00:00	05/02/25 09:50
30776299006	**5044390-11 MW5**	Water	04/29/25 00:00	05/02/25 09:50
30776299007	**5044390-11 MW5 MS**	Water	04/29/25 00:00	05/02/25 09:50
30776299008	**5044390-11 MW5 MSD**	Water	04/29/25 00:00	05/02/25 09:50
30776299009	**5044390-13 MW6**	Water	04/29/25 00:00	05/02/25 09:50
30776299010	**5044390-15 MW7**	Water	04/29/25 00:00	05/02/25 09:50
30776299011	**5044390-17 MW8**	Water	04/28/25 00:00	05/02/25 09:50
30776299012	**5044390-19 MW10**	Water	04/28/25 00:00	05/02/25 09:50
30776299013	**5044390-21 MW10D**	Water	04/28/25 00:00	05/02/25 09:50
30776299014	**5044390-23 MW102**	Water	04/28/25 00:00	05/02/25 09:50
30776299015	**5044390-25 MW104**	Water	04/28/25 00:00	05/02/25 09:50
30776299016	**5044390-27 MW105R**	Water	04/28/25 00:00	05/02/25 09:50
30776299017	**5044390-29 MW110**	Water	04/28/25 00:00	05/02/25 09:50
30776299018	**5044390-31 MW111**	Water	04/28/25 00:00	05/02/25 09:50
30776299019	**5044390-33 MW112**	Water	04/28/25 00:00	05/02/25 09:50
30776299020	**5044390-35 MW113**	Water	04/28/25 00:00	05/02/25 09:50
30776299021	**5044390-37 MW114**	Water	04/28/25 00:00	05/02/25 09:50
30776299022	**5044390-39 Well Duplicate 1**	Water	04/28/25 00:00	05/02/25 09:50
30776299023	**5044390-41 Well Duplicate 2**	Water	04/29/25 00:00	05/02/25 09:50
30776299024	**5044390-43 Field Blank**	Water	04/29/25 00:00	05/02/25 09:50

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SAMPLE ANALYTE COUNT

Project: 5044390
Pace Project No.: 30776299

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30776299001	**5044390-01 MW1**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299002	**5044390-03 MW2**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299003	**5044390-05 MW3**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299004	**5044390-07 MW4**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299005	**5044390-09 MW4D**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299006	**5044390-11 MW5**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299007	**5044390-11 MW5 MS**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
30776299008	**5044390-11 MW5 MSD**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
30776299009	**5044390-13 MW6**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299010	**5044390-15 MW7**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299011	**5044390-17 MW8**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299012	**5044390-19 MW10**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299013	**5044390-21 MW10D**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 5044390
Pace Project No.: 30776299

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30776299014	**5044390-23 MW102**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299015	**5044390-25 MW104**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299016	**5044390-27 MW105R**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299017	**5044390-29 MW110**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299018	**5044390-31 MW111**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299019	**5044390-33 MW112**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299020	**5044390-35 MW113**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299021	**5044390-37 MW114**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299022	**5044390-39 Well Duplicate 1**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299023	**5044390-41 Well Duplicate 2**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30776299024	**5044390-43 Field Blank**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

Sample: 5044390-01 MW1 **Lab ID: 30776299001** Collected: 04/28/25 13:55 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.114 ± 0.614 (1.15) C:NA T:94%**	pCi/L	05/21/25 15:13	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.611 ± 0.559 (1.13) C:70% T:82%**	pCi/L	05/20/25 18:02	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.725 ± 1.17 (2.28)**	pCi/L	05/28/25 17:02	7440-14-4	

Sample: 5044390-03 MW2 **Lab ID: 30776299002** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.301 ± 0.788 (1.39) C:NA T:98%**	pCi/L	05/21/25 15:26	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.804 ± 0.536 (1.01) C:73% T:88%**	pCi/L	05/20/25 18:02	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.11 ± 1.32 (2.40)**	pCi/L	05/28/25 17:02	7440-14-4	

Sample: 5044390-05 MW3 **Lab ID: 30776299003** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.473 ± 0.570 (0.937) C:NA T:94%**	pCi/L	05/21/25 15:26	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.54 ± 0.717 (1.18) C:70% T:80%**	pCi/L	05/20/25 18:02	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**2.01 ± 1.29 (2.12)**	pCi/L	05/28/25 17:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

Sample: 5044390-07 MW4 **Lab ID: 30776299004** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0998 ± 0.536 (1.00) C:NA T:100%**	pCi/L	05/21/25 15:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.841 ± 0.587 (1.13) C:72% T:88%**	pCi/L	05/20/25 18:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.941 ± 1.12 (2.13)**	pCi/L	05/28/25 17:02	7440-14-4	

Sample: 5044390-09 MW4D **Lab ID: 30776299005** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0536 ± 0.603 (1.14) C:NA T:94%**	pCi/L	05/21/25 15:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.359 ± 0.465 (0.984) C:69% T:91%**	pCi/L	05/20/25 18:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.413 ± 1.07 (2.12)**	pCi/L	05/28/25 17:02	7440-14-4	

Sample: 5044390-11 MW5 **Lab ID: 30776299006** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0423 ± 0.275 (0.555) C:NA T:98%**	pCi/L	05/21/25 15:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.839 ± 0.383 (0.636) C:92% T:86%**	pCi/L	05/20/25 14:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.881 ± 0.658 (1.19)**	pCi/L	05/27/25 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

Sample: 5044390-11 MW5 MS **Lab ID: 30776299007** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**99.68 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/21/25 15:40	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**117.35 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/20/25 14:08	15262-20-1	

Sample: 5044390-11 MW5 MSD **Lab ID: 30776299008** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**135.42 %REC 30.40RPD ± NA (NA) C:NA T:NA**	pCi/L	05/21/25 15:40	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**119.39 %REC 1.73RPD ± NA (NA) C:NA T:NA**	pCi/L	05/20/25 14:09	15262-20-1	

Sample: 5044390-13 MW6 **Lab ID: 30776299009** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.151 ± 0.453 (0.839) C:NA T:98%**	pCi/L	05/21/25 15:40	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.577 ± 0.379 (0.715) C:81% T:87%**	pCi/L	05/20/25 14:09	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.728 ± 0.832 (1.55)**	pCi/L	05/27/25 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

Sample: 5044390-15 MW7 **Lab ID: 30776299010** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.471 ± 0.655 (1.11) C:NA T:88%**	pCi/L	05/21/25 15:40	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.597 ± 0.383 (0.721) C:83% T:82%**	pCi/L	05/20/25 14:09	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.07 ± 1.04 (1.83)**	pCi/L	05/27/25 16:58	7440-14-4	

Sample: 5044390-17 MW8 **Lab ID: 30776299011** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.649 ± 0.658 (1.05) C:NA T:91%**	pCi/L	05/21/25 15:40	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.12 ± 0.465 (0.733) C:79% T:87%**	pCi/L	05/20/25 14:09	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.77 ± 1.12 (1.78)**	pCi/L	05/27/25 16:58	7440-14-4	

Sample: 5044390-19 MW10 **Lab ID: 30776299012** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.529 ± 0.735 (1.24) C:NA T:94%**	pCi/L	05/21/25 15:40	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.606 ± 0.431 (0.839) C:79% T:86%**	pCi/L	05/20/25 14:17	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.14 ± 1.17 (2.08)**	pCi/L	05/27/25 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

Sample: 5044390-21 MW10D **Lab ID: 30776299013** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.355 ± 0.725 (1.27) C:NA T:95%**	pCi/L	05/21/25 15:53	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.961 ± 0.478 (0.829) C:77% T:81%**	pCi/L	05/20/25 14:17	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.32 ± 1.20 (2.10)**	pCi/L	05/27/25 16:58	7440-14-4	

Sample: 5044390-23 MW102 **Lab ID: 30776299014** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.434 ± 0.441 (0.667) C:NA T:85%**	pCi/L	05/21/25 15:53	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.0378 ± 0.339 (0.784) C:80% T:84%**	pCi/L	05/20/25 14:17	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.472 ± 0.780 (1.45)**	pCi/L	05/27/25 16:58	7440-14-4	

Sample: 5044390-25 MW104 **Lab ID: 30776299015** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.706 ± 0.539 (0.766) C:NA T:94%**	pCi/L	05/21/25 15:53	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.913 ± 0.395 (0.625) C:86% T:89%**	pCi/L	05/20/25 14:17	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.62 ± 0.934 (1.39)**	pCi/L	05/27/25 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

Sample: 5044390-27 MW105R **Lab ID: 30776299016** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**2.30 ± 1.00 (0.986) C:NA T:86%**	pCi/L	05/28/25 14:12	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.13 ± 0.477 (0.765) C:83% T:83%**	pCi/L	05/20/25 14:18	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**3.43 ± 1.48 (1.75)**	pCi/L	05/29/25 09:40	7440-14-4	

Sample: 5044390-29 MW110 **Lab ID: 30776299017** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.01 ± 0.975 (1.58) C:NA T:95%**	pCi/L	05/21/25 15:53	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.615 ± 0.478 (0.955) C:82% T:86%**	pCi/L	05/20/25 14:18	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.63 ± 1.45 (2.54)**	pCi/L	05/27/25 16:58	7440-14-4	

Sample: 5044390-31 MW111 **Lab ID: 30776299018** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.318 ± 0.641 (1.13) C:NA T:91%**	pCi/L	05/21/25 15:53	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.888 ± 0.411 (0.683) C:83% T:89%**	pCi/L	05/20/25 14:18	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.21 ± 1.05 (1.81)**	pCi/L	05/27/25 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

Sample: 5044390-33 MW112 **Lab ID: 30776299019** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.685 ± 0.742 (1.21) C:NA T:96%**	pCi/L	05/21/25 15:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.15 ± 0.493 (0.789) C:78% T:84%**	pCi/L	05/20/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.84 ± 1.24 (2.00)**	pCi/L	05/27/25 16:58	7440-14-4	

Sample: 5044390-35 MW113 **Lab ID: 30776299020** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**1.67 ± 0.749 (0.870) C:NA T:91%**	pCi/L	05/21/25 15:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.09 ± 0.624 (0.747) C:81% T:81%**	pCi/L	05/20/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.76 ± 1.37 (1.62)**	pCi/L	05/27/25 16:58	7440-14-4	

Sample: 5044390-37 MW114 **Lab ID: 30776299021** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.853 ± 0.543 (0.656) C:NA T:87%**	pCi/L	05/21/25 16:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.26 ± 0.647 (0.709) C:77% T:82%**	pCi/L	05/20/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.11 ± 1.19 (1.37)**	pCi/L	05/27/25 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

Sample: 5044390-39 Well Duplicate 1 **Lab ID: 30776299022** Collected: 04/28/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.882 ± 0.585 (0.771) C:NA T:90%**	pCi/L	05/21/25 16:07	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.560 ± 0.361 (0.676) C:75% T:92%**	pCi/L	05/20/25 14:18	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.44 ± 0.946 (1.45)**	pCi/L	05/27/25 16:58	7440-14-4	

Sample: 5044390-41 Well Duplicate 2 **Lab ID: 30776299023** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.425 ± 0.319 (0.165) C:NA T:93%**	pCi/L	05/21/25 16:07	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.911 ± 0.450 (0.788) C:81% T:91%**	pCi/L	05/20/25 14:12	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.34 ± 0.769 (0.953)**	pCi/L	05/27/25 16:58	7440-14-4	

Sample: 5044390-43 Field Blank **Lab ID: 30776299024** Collected: 04/29/25 00:00 Received: 05/02/25 09:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Samplers name and signature not listed on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.349 ± 0.428 (0.704) C:NA T:98%**	pCi/L	05/21/25 15:26	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.487 ± 0.502 (1.05) C:68% T:94%**	pCi/L	05/20/25 14:52	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.836 ± 0.930 (1.75)**	pCi/L	05/28/25 17:02	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

QC Batch: 744324 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30776299001, 30776299002, 30776299003, 30776299004, 30776299005, 30776299024

METHOD BLANK: 3623079 Matrix: Water
Associated Lab Samples: 30776299001, 30776299002, 30776299003, 30776299004, 30776299005, 30776299024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.473 ± 0.383 (0.757) C:69% T:90%	pCi/L	05/20/25 14:53	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

QC Batch: 744323 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30776299001, 30776299002, 30776299003, 30776299004, 30776299005, 30776299024

METHOD BLANK: 3623078 Matrix: Water
Associated Lab Samples: 30776299001, 30776299002, 30776299003, 30776299004, 30776299005, 30776299024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.626 ± 0.333 (0.288) C:NA T:104%	pCi/L	05/21/25 15:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

QC Batch: 744325 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30776299006, 30776299007, 30776299008, 30776299009, 30776299010, 30776299011, 30776299012, 30776299013, 30776299014, 30776299015, 30776299016, 30776299017, 30776299018, 30776299019, 30776299020, 30776299021, 30776299022, 30776299023

METHOD BLANK: 3623080 Matrix: Water
Associated Lab Samples: 30776299006, 30776299007, 30776299008, 30776299009, 30776299010, 30776299011, 30776299012, 30776299013, 30776299014, 30776299015, 30776299016, 30776299017, 30776299018, 30776299019, 30776299020, 30776299021, 30776299022, 30776299023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.149 ± 0.289 (0.638) C:83% T:90%	pCi/L	05/20/25 14:08	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 5044390
Pace Project No.: 30776299

QC Batch: 744326 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30776299006, 30776299007, 30776299008, 30776299009, 30776299010, 30776299011, 30776299012, 30776299013, 30776299014, 30776299015, 30776299016, 30776299017, 30776299018, 30776299019, 30776299020, 30776299021, 30776299022, 30776299023

METHOD BLANK: 3623081 Matrix: Water
Associated Lab Samples: 30776299006, 30776299007, 30776299008, 30776299009, 30776299010, 30776299011, 30776299012, 30776299013, 30776299014, 30776299015, 30776299016, 30776299017, 30776299018, 30776299019, 30776299020, 30776299021, 30776299022, 30776299023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.210 ± 0.274 (0.451) C:NA T:95%	pCi/L	05/21/25 15:40	

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QUALIFIERS

Project: 5044390
Pace Project No.: 30776299

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5044390
Pace Project No.: 30776299

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30776299001	**5044390-01 MW1**	EPA 903.1	744323		
30776299002	**5044390-03 MW2**	EPA 903.1	744323		
30776299003	**5044390-05 MW3**	EPA 903.1	744323		
30776299004	**5044390-07 MW4**	EPA 903.1	744323		
30776299005	**5044390-09 MW4D**	EPA 903.1	744323		
30776299006	**5044390-11 MW5**	EPA 903.1	744326		
30776299007	**5044390-11 MW5 MS**	EPA 903.1	744326		
30776299008	**5044390-11 MW5 MSD**	EPA 903.1	744326		
30776299009	**5044390-13 MW6**	EPA 903.1	744326		
30776299010	**5044390-15 MW7**	EPA 903.1	744326		
30776299011	**5044390-17 MW8**	EPA 903.1	744326		
30776299012	**5044390-19 MW10**	EPA 903.1	744326		
30776299013	**5044390-21 MW10D**	EPA 903.1	744326		
30776299014	**5044390-23 MW102**	EPA 903.1	744326		
30776299015	**5044390-25 MW104**	EPA 903.1	744326		
30776299016	**5044390-27 MW105R**	EPA 903.1	744326		
30776299017	**5044390-29 MW110**	EPA 903.1	744326		
30776299018	**5044390-31 MW111**	EPA 903.1	744326		
30776299019	**5044390-33 MW112**	EPA 903.1	744326		
30776299020	**5044390-35 MW113**	EPA 903.1	744326		
30776299021	**5044390-37 MW114**	EPA 903.1	744326		
30776299022	**5044390-39 Well Duplicate 1**	EPA 903.1	744326		
30776299023	**5044390-41 Well Duplicate 2**	EPA 903.1	744326		
30776299024	**5044390-43 Field Blank**	EPA 903.1	744323		
30776299001	**5044390-01 MW1**	EPA 904.0	744324		
30776299002	**5044390-03 MW2**	EPA 904.0	744324		
30776299003	**5044390-05 MW3**	EPA 904.0	744324		
30776299004	**5044390-07 MW4**	EPA 904.0	744324		
30776299005	**5044390-09 MW4D**	EPA 904.0	744324		
30776299006	**5044390-11 MW5**	EPA 904.0	744325		
30776299007	**5044390-11 MW5 MS**	EPA 904.0	744325		
30776299008	**5044390-11 MW5 MSD**	EPA 904.0	744325		
30776299009	**5044390-13 MW6**	EPA 904.0	744325		
30776299010	**5044390-15 MW7**	EPA 904.0	744325		
30776299011	**5044390-17 MW8**	EPA 904.0	744325		
30776299012	**5044390-19 MW10**	EPA 904.0	744325		
30776299013	**5044390-21 MW10D**	EPA 904.0	744325		
30776299014	**5044390-23 MW102**	EPA 904.0	744325		
30776299015	**5044390-25 MW104**	EPA 904.0	744325		
30776299016	**5044390-27 MW105R**	EPA 904.0	744325		
30776299017	**5044390-29 MW110**	EPA 904.0	744325		
30776299018	**5044390-31 MW111**	EPA 904.0	744325		
30776299019	**5044390-33 MW112**	EPA 904.0	744325		
30776299020	**5044390-35 MW113**	EPA 904.0	744325		
30776299021	**5044390-37 MW114**	EPA 904.0	744325		
30776299022	**5044390-39 Well Duplicate 1**	EPA 904.0	744325		
30776299023	**5044390-41 Well Duplicate 2**	EPA 904.0	744325		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5044390
Pace Project No.: 30776299

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30776299024	**5044390-43 Field Blank**	EPA 904.0	744324		
30776299001	**5044390-01 MW1**	Total Radium Calculation	748435		
30776299002	**5044390-03 MW2**	Total Radium Calculation	748435		
30776299003	**5044390-05 MW3**	Total Radium Calculation	748435		
30776299004	**5044390-07 MW4**	Total Radium Calculation	748435		
30776299005	**5044390-09 MW4D**	Total Radium Calculation	748435		
30776299006	**5044390-11 MW5**	Total Radium Calculation	748128		
30776299009	**5044390-13 MW6**	Total Radium Calculation	748128		
30776299010	**5044390-15 MW7**	Total Radium Calculation	748128		
30776299011	**5044390-17 MW8**	Total Radium Calculation	748128		
30776299012	**5044390-19 MW10**	Total Radium Calculation	748128		
30776299013	**5044390-21 MW10D**	Total Radium Calculation	748128		
30776299014	**5044390-23 MW102**	Total Radium Calculation	748128		
30776299015	**5044390-25 MW104**	Total Radium Calculation	748128		
30776299016	**5044390-27 MW105R**	Total Radium Calculation	748580		
30776299017	**5044390-29 MW110**	Total Radium Calculation	748128		
30776299018	**5044390-31 MW111**	Total Radium Calculation	748128		
30776299019	**5044390-33 MW112**	Total Radium Calculation	748128		
30776299020	**5044390-35 MW113**	Total Radium Calculation	748128		
30776299021	**5044390-37 MW114**	Total Radium Calculation	748128		
30776299022	**5044390-39 Well Duplicate 1**	Total Radium Calculation	748128		
30776299023	**5044390-41 Well Duplicate 2**	Total Radium Calculation	748128		
30776299024	**5044390-43 Field Blank**	Total Radium Calculation	748435		

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SUBCONTRACT ORDER

Pace Analytical Services, LLC Kentucky

5044390

WO# : 30776299

30776299

SENDING LABORATORY:

Pace Analytical Services, LLC Kentucky
PO BOX 907
Madisonville, KY 42431
Phone: (270) 821-7375
Fax: 844-270-7904
Project Manager: Rob Whittington

RECEIVING LAB

Pace Analytical Se
1638 Rosey Town
Greensburg, PA 15601
Phone :(724) 850-5615
Fax:

Received by Pace Greensburg
Therm ID 24 Corr Factor +/- 0.0
Receipt Temp 5.6
Corrected Temp 5.6
Correct Preservation Y N

Analysis	Expires	Laboratory ID	Comments
Sample ID: 5044390-01 Ground Water **Sampled:04/28/2025 13:55**		**Specific Method**	ØØ1
Radium 228 (sub)	10/25/2025 13:55	EPA 904.0 Radium Sum C	MW1
Radium Total (sub)	10/25/2025 13:55	EPA 904.0 Radium Sum C	
Radium 226 (sub)	10/25/2025 13:55	EPA 903.1	

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** C

Sample ID: 5044390-03 Ground Water **Sampled:04/29/2025 00:00**		**Specific Method**	ØØ2
Radium 226 (sub)	10/26/2025 00:00	EPA 903.1	MW2
Radium 228 (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C	
Radium Total (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C	

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** C

Sample ID: 5044390-05 Ground Water **Sampled:04/29/2025 00:00**		**Specific Method**	ØØ3
Radium 226 (sub)	10/26/2025 00:00	EPA 903.1	MW3
Radium 228 (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C	
Radium Total (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C	

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** C

Released By	Date	Received By	Date
	5-1-25		5/2/25 9:50
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Pace Analytical Services, LLC Ken

5044390

WO#: 30776299

PM: TAW Due Date: 05/23/25

CLIENT: PACE_44_MVKY

Analysis	Expires	Laboratory ID

Sample ID: 5044390-07 Ground Water Sampled:04/29/2025 00:00 Specific Method

Radium 226 (sub)	10/26/2025 00:00	EPA 903.1
Radium 228 (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C
Radium Total (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C

MW4 004

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5044390-09 Ground Water Sampled:04/28/2025 00:00 Specific Method

Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1
Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C

MW4D 005

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5044390-11 Ground Water Sampled:04/29/2025 00:00 Specific Method

Radium Total (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/26/2025 00:00	EPA 903.1
Radium 228 (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C

MW3 006
MS/MSD 007
008

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5044390-13 Ground Water Sampled:04/29/2025 00:00 Specific Method

Radium 226 (sub)	10/26/2025 00:00	EPA 903.1
Radium 228 (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C
Radium Total (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C

MW6 ~~007~~ PS 5/5/25
009

SAMPLE STATE OF ORIGIN RUSH MULTIPLIER

Released By	Date	Received By	Date
[signature]	5-1-25	[signature]	5/2/25 9:50
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Pace Analytical Services, LLC Kentu...

5044390

WO#: 30776299

PM: TAW Due Date: 05/23/25

CLIENT: PACE_44_MVKY

Analysis	Expires	Laboratory ID

Sample ID: 5044390-15 Ground Water **Sampled:04/29/2025 00:00** **Specific Method**

Radium Total (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C
Radium 228 (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/26/2025 00:00	EPA 903.1

MW7 ~~GW8~~ 010 ps 5/5/25

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5044390-17 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1
Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C

MW8 ~~GW9~~ 011 ps 5/5/25

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5044390-19 Ground Water **Sampled:04/29/2025 00:00** **Specific Method**

Radium Total (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/26/2025 00:00	EPA 903.1
Radium 228 (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C

MW10 ~~GW10~~ 012 ps 5/5/25

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5044390-21 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium 226 (sub)	10/25/2025 00:00	EPA 903.1
Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C

MW10D ~~GW11~~ 013 ps 5/5/25

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Released By	Date	Received By	Date
[signature]	5-1-25	[signature]	5/2/25 9:50
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Pace Analytical Services, LLC Kentuc...

5044390

WO#: 30776299

PM: TAW Due Date: 05/23/25

CLIENT: PACE_44_MVKY

Analysis	Expires	Laboratory ID

Sample ID: 5044390-23 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium 226 (sub)	10/25/2025 00:00	EPA 903.1
Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C

MW102

~~012~~ PS 5/15/25

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0 014

Sample ID: 5044390-25 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1

MW104

~~013~~ PS 5/15/25

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0 015

Sample ID: 5044390-27 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1

MW105R

~~014~~ PS 5/15/25

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0 016

Sample ID: 5044390-29 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1

MW110

~~015~~ PS 5/15/25

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0 017

Released By	Date	Received By	Date
[signature]	5-1-25	[signature]	5/2/25 9:50
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Pace Analytical Services, LLC Kentucky

5044390

WO#: 30776299

PM: TAW Due Date: 05/23/25

CLIENT: PACE_44_MVKY

Analysis	Expires	Laboratory ID

Sample ID: 5044390-31 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1

MW111 ps 5/5/25 016

018

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

Sample ID: 5044390-33 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1

MW112 ps 5/5/25 ~~017~~

019

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

Sample ID: 5044390-35 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1
Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C

MW113 ps 5/5/25 ~~018~~

020

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

Sample ID: 5044390-37 Ground Water **Sampled:04/28/2025 00:00** **Specific Method**

Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1
Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C

MW114 ps 5/5/25 ~~019~~

021

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

Released By	Date	Received By	Date
[signature]	5-1-25	[signature]	5/2/25 9:50
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Pace Analytical Services, LLC Kentucky

5044390

Analysis	Expires	Laboratory ID	Comments
Sample ID: 5044390-39 Ground Water	**Sampled:04/28/2025 00:00**	**Specific Method**	
Radium 226 (sub)	10/25/2025 00:00	EPA 903.1	Well Duplicate 1
Radium 228 (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C	
Radium Total (sub)	10/25/2025 00:00	EPA 904.0 Radium Sum C	

ps 5/5/25 ~~020~~ 022

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

Sample ID: 5044390-41 Ground Water	**Sampled:04/29/2025 00:00**	**Specific Method**	
Radium Total (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C	Well Duplicate 2
Radium 226 (sub)	10/26/2025 00:00	EPA 903.1	
Radium 228 (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C	

ps 5/5/25 ~~024~~ 023

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

Sample ID: 5044390-43 Ground Water	**Sampled:04/29/2025 00:00**	**Specific Method**	
Radium Total (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C	Field Blank
Radium 226 (sub)	10/26/2025 00:00	EPA 903.1	
Radium 228 (sub)	10/26/2025 00:00	EPA 904.0 Radium Sum C	

ps 5/5/25 ~~022~~ 024

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

WO#: 30776299

PM: TAW Due Date: 05/23/25

CLIENT: PACE_44_MVKY

Released By	Date	Received By	Date
[signature]	5-1-25	[signature]	5/2/25 9:50
Released By	Date	Received By	Date

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

Effective Date: 01/04/2024

WO#: 30776299

PM: TAW Due Date: 05/23/25

CLIENT: PACE_44_MVKY

Client Name: Pace-KY

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

Tracking Number: 1Z 067 Y57 01 2581 4806

Initial / Date

Examined By: PS 5/14/25

Labeled By: PS 5/15/25

Temped By: PS 5/12/25

PS 5/15/25 Pkt Attached

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Thermometer Used: 24 Type of Ice: (Wet) Blue None

Cooler Temperature: Observed Temp 5.6 °C Correction Factor: 0.0 °C Final Temp: 5.6 °C

Temp should be above freezing to 6°C

pH paper Lot# 10D3241 D.P.D. Residual Chlorine Lot #

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:		✓		5. - bottles say Grandwater. - bottles for sample 5044390-11 not labeled for MS/MSD.
-Includes date/time/ID Matrix:	WT			
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7. - no date/time on bottles.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				PH<2
All containers meet method preservation requirements:	✓			Initial when completed: PS Date/Time of Preservation: Lot# of added Preservative:
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed: PS Date: 5/2/25 Survey Meter SN: 25014380

Comments: * Logged as DW, per PM. * Received only samples for 5044390-25, 27, 29, 31, 33 on COC as of 5/2/25.

* continued on page 2.

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

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

Effective Date: 01/04/2024

WO#: 30776299

PM: TAW Due Date: 05/23/25

CLIENT: PACE_44_MVKY

Client Name: Pace KY

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

Initial / Date

Examined By: PS 5/5/25

Labeled By: PS 5/5/25

Temped By: PS 5/5/25

PS 5/5/25 Tracking Number: 1Z067457010750246 3 / 1Z067457010927184 3 / 1Z067457011788 2054 / 1Z067457010 30525748

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

All melted Thermometer Used: 24 Type of Ice: (Wet) Blue None

Cooler Temperature: Observed Temp 15.2 °C Correction Factor: 0.0 °C Final Temp: 15.2 °C 16.4

14.9 14.9 16.9

16.4 16.9

Temp should be above freezing to 6°C

pH paper Lot# 1003241 D.P.D. Residual Chlorine Lot #

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:		✓		5. - bottles say groundwater - No date/time on bottles
-Includes date/time/ID				
Matrix:	WT			
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16. pH<2
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				
All containers meet method preservation requirements:	✓			Initial when completed PS Date/Time of Preservation
				Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed PS Date: 5/5/25 Survey Meter SN: 25014380

Comments: * Received 4 coolers 5/5/25 9:35. Received remaining samples.

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

Page 1 of 1 2/2
PS 5/5/25

WO# 30776299

Client

Site 5044390

Page 1 of 2

Profile/EZ Login Number 11851

Notes *006, 007 (MS), 008 (MSD)

Sample Line Item	Matrix	Amber Glass					Plastic								Vials					Other										
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
001	DW						3																						
002																													
003																													
004																													
005																													
006																													
007																													
008																													MS
009																													MSD
010																													
011																													
012																													

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
U	250mL amber glass unpreserved	GN	General

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	
BP1N	
BP1U	
BP3S	
BP3N	
BP3U	250mL plastic unpreserved
BP3B	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
	e/Swab
	oc Bag
	er
	d
OL	Non-Aq Liquid
WP	Wipe

WO#: 30776299
PM: TAW Due Date: 05/23/25
CLIENT: PACE_44_MVKY

Qualtrax ID: 55678

WO# 30776299

Client

Site 5044390

Page 2 of 2

Profile/EZ Login Number

Notes

Sample Line Item	Matrix	Amber Glass					Plastic								Vials					Other									
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
013	DW						2																						
014	↓						↓																						
015																													
016																													
017																													
018																													
019																													
020																													
021																													
022																													
023																													
024	↓																												

PS 5/15/25

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
[illegible]U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
[illegible]S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
[illegible]U	250mL amber glass unpreserved	GN	General

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	[illegible]mL coliform Na Thiosulfate
BP1N	
BP1U	
BP3S	
BP3N	
BP3U	
BP3B	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
	loc Bag
	ater
	lid
	n-Aq Liquid
	Wipe

WO#: 30776299
PM: TAW Due Date: 05/23/25
CLIENT: PACE_44_MVKY

Qualtrax ID: 55678

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	LL1
Date:	5/9/2025
Batch ID:	84992
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3623078
MB concentration:	0.626
M/B 2 Sigma CSU:	0.333
MB MDC:	0.288
MB Numerical Performance Indicator:	3.68
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS84992	LCSD84992
Count Date:	5/21/2025	
Spike I.D.:	24-046	
Spike Concentration (pCi/mL):	31.831	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.653	
Target Conc. (pCi/L, g, F):	4.874	
Uncertainty (Calculated):	0.229	
Result (pCi/L, g, F):	4.839	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.234	
Numerical Performance Indicator:	-0.05	
Percent Recovery:	99.28%	
Status vs Numerical Indicator:	Pass	
Status vs Recovery:	N/A	
Upper % Recovery Limits:	133%	
Lower % Recovery Limits:	73%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/25/2025	
Sample I.D.	60473868003	
Sample MS I.D.	60473868007	
Sample MSD I.D.	60473868008	
Spike I.D.:	24-046	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	31.832	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.650	
MS Target Conc.(pCi/L, g, F):	9.791	
MSD Aliquot (L, g, F):	0.650	
MSD Target Conc. (pCi/L, g, F):	9.791	
MS Spike Uncertainty (calculated):	0.460	
MSD Spike Uncertainty (calculated):	0.460	
Sample Result:	0.660	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.464	
Sample Matrix Spike Result:	7.312	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.584	
Sample Matrix Spike Duplicate Result:	6.437	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.279	
MS Numerical Performance Indicator:	-3.591	
MSD Numerical Performance Indicator:	-5.480	
MS Percent Recovery:	67.93%	
MSD Percent Recovery:	58.99%	
MS Status vs Numerical Indicator:	Fail****	
MSD Status vs Numerical Indicator:	Fail****	
MS Status vs Recovery:	N/A	
MSD Status vs Recovery:	N/A	
MS/MSD Upper % Recovery Limits:	136%	
MS/MSD Lower % Recovery Limits:	71%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	60473868003	
Sample MS I.D.	60473868007	
Sample MSD I.D	60473868008	
Sample Matrix Spike Result:	7.312	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.584	
Sample Matrix Spike Duplicate Result:	6.437	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.279	
Duplicate Numerical Performance Indicator:	0.842	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	14.09%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

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

Comments:
The batch must be reprepped due to an unacceptable blank result MDC under reporting limit

W052825

****If all other QC criteria pass, the batch is reportable. The matrix spike result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch. Reprep the sample a

****If all other QC criteria pass, the batch is reportable. The matrix spike result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch. Reprep the sample a

Acceptable 5/28/25

TY 5-28-25

MS/MSD narrated - reported based on passing RPD for ROS set

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	ZPC
Date:	5/13/2025
Worklist:	84993
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3623079
MB concentration:	0.473
MB 2 Sigma CSU:	0.383
MB MDC:	0.757
MB Numerical Performance Indicator:	2.42
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS84993	LCSD84993
Count Date:	5/20/2025	
Spike I.D.:	23-043	
Decay Corrected Spike Concentration (pCi/mL):	32.521	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.815	
Target Conc. (pCi/L, g, F):	3.990	
Uncertainty (Calculated):	0.195	
Result (pCi/L, g, F):	4.300	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.092	
Numerical Performance Indicator:	0.55	
Percent Recovery:	107.79%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/25/2025	
Sample I.D.	60473868003	
Sample MS I.D.	60473868007	
Sample MSD I.D.	60473868008	
Spike I.D.:	23-043	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.792	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.801	
MS Target Conc.(pCi/L, g, F):	8.188	
MSD Aliquot (L, g, F):	0.801	
MSD Target Conc. (pCi/L, g, F):	8.184	
MS Spike Uncertainty (calculated):	0.401	
MSD Spike Uncertainty (calculated):	0.401	
Sample Result:	1.407	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.560	
Sample Matrix Spike Result:	6.466	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.438	
Sample Matrix Spike Duplicate Result:	7.133	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.495	
MS Numerical Performance Indicator:	-3.846	
MSD Numerical Performance Indicator:	-2.926	
MS Percent Recovery:	61.79%	
MSD Percent Recovery:	69.96%	
MS Status vs Numerical Indicator:	Fail****	
MSD Status vs Numerical Indicator:	Warning	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	60473868003	
Sample MS I.D.	60473868007	
Sample MSD I.D.	60473868008	
Sample Matrix Spike Result:	6.466	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.438	
Sample Matrix Spike Duplicate Result:	7.133	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.495	
Duplicate Numerical Performance Indicator:	-0.630	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	12.41%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

Comments:

MS/22/25

MS/MSD passes % recovery criteria

****If all other QC criteria pass, this below is acceptable. The matrix spike duplicate result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

VAL
5/23/25

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	5/13/2025
Worklist:	84994
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3623080
MB concentration:	0.149
M/B 2 Sigma CSU:	0.289
MB MDC:	0.638
MB Numerical Performance Indicator:	1.01
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS84994	LCSD84994
Count Date:	5/20/2025	
Spike I.D.:	23-043	
Decay Corrected Spike Concentration (pCi/mL):	32.521	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.820	
Target Conc. (pCi/L, g, F):	3.967	
Uncertainty (Calculated):	0.194	
Result (pCi/L, g, F):	3.973	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.941	
Numerical Performance Indicator:	0.01	
Percent Recovery:	100.15%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/29/2025	
Sample I.D.	30776299006	
Sample MS I.D.	30776299007	
Sample MSD I.D.	30776299008	
Spike I.D.:	23-043	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.753	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.800	
MS Target Conc.(pCi/L, g, F):	8.184	
MSD Aliquot (L, g, F):	0.801	
MSD Target Conc. (pCi/L, g, F):	8.173	
MS Spike Uncertainty (calculated):	0.401	
MSD Spike Uncertainty (calculated):	0.400	
Sample Result:	0.839	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.383	
Sample Matrix Spike Result:	10.442	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.080	
Sample Matrix Spike Duplicate Result:	10.597	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.128	
MS Numerical Performance Indicator:	1.293	
MSD Numerical Performance Indicator:	1.413	
MS Percent Recovery:	117.35%	
MSD Percent Recovery:	119.39%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30776299006	
Sample MS I.D.	30776299007	
Sample MSD I.D.	30776299008	
Sample Matrix Spike Result:	10.442	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.080	
Sample Matrix Spike Duplicate Result:	10.597	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.128	
Duplicate Numerical Performance Indicator:	-0.102	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	1.73%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

Comments:

VAL
5/22/25

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	CLM
Date:	5/9/2025
Batch ID:	84995
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3623081
MB concentration:	0.210
MB 2 Sigma CSU:	0.274
MB MDC:	0.451
MB Numerical Performance Indicator:	1.50
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS84995	LCSD84995
Count Date:	5/21/2025	
Spike I.D.:	24-046	
Spike Concentration (pCi/mL):	31.831	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.655	
Target Conc. (pCi/L, g, F):	4.858	
Uncertainty (Calculated):	0.228	
Result (pCi/L, g, F):	5.985	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.277	
Numerical Performance Indicator:	1.70	
Percent Recovery:	123.20%	
Status vs Numerical Indicator:	Pass	
Status vs Recovery:	N/A	
Upper % Recovery Limits:	133%	
Lower % Recovery Limits:	73%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/29/2025	
Sample I.D.	30776299006	
Sample MS I.D.	30776299007	
Sample MSD I.D.	30776299008	
Spike I.D.:	24-046	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	31.832	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.657	
MS Target Conc.(pCi/L, g, F):	9.691	
MSD Aliquot (L, g, F):	0.651	
MSD Target Conc. (pCi/L, g, F):	9.778	
MS Spike Uncertainty (calculated):	0.455	
MSD Spike Uncertainty (calculated):	0.460	
Sample Result:	0.042	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.275	
Sample Matrix Spike Result:	9.703	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.752	
Sample Matrix Spike Duplicate Result:	13.284	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.143	
MS Numerical Performance Indicator:	-0.033	
MSD Numerical Performance Indicator:	3.074	
MS Percent Recovery:	99.68%	
MSD Percent Recovery:	135.42%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Fail****	
MS Status vs Recovery:	N/A	
MSD Status vs Recovery:	N/A	
MS/MSD Upper % Recovery Limits:	136%	
MS/MSD Lower % Recovery Limits:	71%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30776299006	
Sample MS I.D.	30776299007	
Sample MSD I.D.	30776299008	
Sample Matrix Spike Result:	9.703	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.752	
Sample Matrix Spike Duplicate Result:	13.284	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.143	
Duplicate Numerical Performance Indicator:	-2.536	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	30.40%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Warning	
MS/ MSD Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

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

Comments:

W 052925 Ans 5/29/25 MS/MSD Pass % recovery criteria

****If all other QC criteria pass, the batch is reportable. The matrix spike result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch. Reprep the sample.**

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-09 A	04·28·25	10:20	Plastic 1L	1	MW4D	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab) Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
5044390-09 B	04·28·25	1020	Plastic 500mL pH<2 w/HNO3	1	MW4D	g / c	
			Preservation Check: pH : ✓				
5044390-09 C	04·28·25	1020	Plastic 500mL pH<2 w/H2SO4	1	MW4D	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-09 D	04·28·25	1020	CG 250mL pH<2 w/HCL	1	MW4D	g / c	Mercury Tot 245.7
5044390-09 E	04·28·25	1020	CG 250mL pH<2 w/HCL	1	MW4D	g / c	Mercury Tot 245.7

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 04·28·25 Time (24 hr) 1020

pH 6.30 Cond (~~umho~~ mS) 3.77 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 19.11 or (oF) _____ Static Water Level _____ DO (mg/L) .39 Turb. (NTU) 20.7

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	K Re	4-30-25	1414

☐ PACE- Check here if trip charge applied to associated COC

Printed: 4/11/2025 8:07:33AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed
required information

Compliance Monitoring? Yes ✓ No
Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-09 F	04·28·25	1020	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW4D	g / c	Radium 226 (sub)
			Preservation Check: pH :				
5044390-09 G	04·28·25	1020	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW4D	g / c	Radium 228 (sub)
			Preservation Check: pH :				
5044390-09 H	04·28·25	1020	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW4D	g / c	Radium 228 (sub)
			Preservation Check: pH :				
5044390-09 I	04·28·25	1020	Plastic 1L pH<2 w/HNO3 Sub	1	MW4D	g / c	Radium Total (sub)
			Preservation Check: pH :				
5044390-09 J	04·28·25	1020	AG 250mL pH<2 w/H2SO4	1	MW4D	g / c	TOC
			Preservation Check: pH :				
5044390-10 A	04·28·25	1020	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-4D	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 04·28·25 Time (24 hr) 1020

pH 6.30 Cond (~~umho~~ MS) 3.77 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 19.11 or (oF) ____ Static Water Level ____ DO (mg/L) .39 Turb. (NTU) 20.7

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[illegible]	4-30-25	1414

☐ **PACE- Check here if trip charge applied to associated COC**

Printed: 4/11/2025 8:07:33AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
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Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-11 A	4/29/25	0735	Plastic 1L	1	MW5	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-11 B	4/29/25	0735	Plastic 500mL pH<2 w/HNO3	1	MW5	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-11 C	4/29/25	0735	Plastic 500mL pH<2 w/H2SO4	1	MW5	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-11 D	4/29/25	0735	CG 250mL pH<2 w/HCL	1	MW5	g / c	Mercury Tot 245.7
5044390-11 E	4/29/25	0735	CG 250mL pH<2 w/HCL	1	MW5	g / c	Mercury Tot 245.7

Preservation Check Performed by: JCED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/29/25 Time (24 hr) 0735

pH 6.40 Cond (~~umho~~ mS) 4.32 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.55 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4-29-25	1600
		4-30-25	1414

☐ PACE- Check here if trip charge applied to associated COC

Printed: 4/11/2025 8:07:33AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-11 F	4/29/25	0735	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW5	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-11 G	4/29/25	0735	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW5	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-11 H	4/29/25	0735	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW5	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-11 I	4/29/25	0735	Plastic 1L pH<2 w/HNO3 Sub	1	MW5	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-11 J	4/29/25	0735	AG 250mL pH<2 w/H2SO4	1	MW5	g / c	TOC
			Preservation Check: pH : ✓				
5044390-12 A	4/29/25	0735	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-5	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/29/25 Time (24 hr) 0735

pH 6.40 Cond (~~umho~~ mS) 4.32 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.55 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4/29/25	1650
		4-30-25	1414

☐ PACE- Check here if trip charge applied to associated COC

Printed: 4/11/2025 8:07:33AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-13 A	4/29/25	1430	Plastic 1L	1	MW6	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-13 B	4/29/25	1430	Plastic 500mL pH<2 w/HNO3	1	MW6	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-13 C	4/29/25	1430	Plastic 500mL pH<2 w/H2SO4	1	MW6	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-13 D	4/29/25	1430	CG 250mL pH<2 w/HCL	1	MW6	g / c	Mercury Tot 245.7
5044390-13 E	4/29/25	1430	CG 250mL pH<2 w/HCL	1	MW6	g / c	Mercury Tot 245.7

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/29/25 Time (24 hr) 1430

pH 6.40 Cond (~~umho~~ mS) 3.26 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 21.22 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4-29-25	1600
		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-13 F	4/29/25	1430	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW6	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-13 G	4/29/25	1430	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW6	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-13 H	4/29/25	1430	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW6	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-13 I	4/29/25	1430	Plastic 1L pH<2 w/HNO3 Sub	1	MW6	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-13 J	4/29/25	1430	AG 250mL pH<2 w/H2SO4	1	MW6	g / c	TOC
			Preservation Check: pH : ✓				
5044390-14 A	4/29/25	1430	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-6	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/29/25 Time (24 hr) 1430

pH 12.40 Cond (~~uMHO~~ mS) 3.26 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 21.22 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4-29-25	16:00
		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Dave Medley
required information

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-15 A	04/29/25	1235	Plastic 1L	1	MW7	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-15 B	04/29/25	1235	Plastic 500mL pH<2 w/HNO3	1	MW7	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-15 C	04/29/25	1235	Plastic 500mL pH<2 w/H2SO4	1	MW7	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-15 D	04/29/25	1235	CG 250mL pH<2 w/HCL	1	MW7	g / c	Mercury Tot 245.7
5044390-15 E	04/29/25	1235	CG 250mL pH<2 w/HCL	1	MW7	g / c	Mercury Tot 245.7

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/29/25 Time (24 hr) 1235

pH 6.54 Cond (~~umho~~ mS) 3.32 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 21.80 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley	Tri Lund	4-29-25	16:00
Tri Lund	[illegible]	4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Dave Medley
required information

Compliance Monitoring? Yes ✓ No
Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-15 F	04/29/25	1235	Plastic 1L pH<2 w/HNO3 Rad 226 Sub **Preservation Check: pH :** ✓	1	MW7	g / c	Radium 226 (sub)
5044390-15 G	04/29/25	1235	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW7	g / c	Radium 228 (sub)
5044390-15 H	04/29/25	1235	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW7	g / c	Radium 228 (sub)
5044390-15 I	04/29/25	1235	Plastic 1L pH<2 w/HNO3 Sub **Preservation Check: pH :** ✓	1	MW7	g / c	Radium Total (sub)
5044390-15 J	04/29/25	1235	AG 250mL pH<2 w/H2SO4 **Preservation Check: pH :** ✓	1	MW7	g / c	TOC
5044390-16 A	04/29/25	1235	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-7	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED

pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/29/25 Time (24 hr) ____

pH 6.54 Cond (~~umho~~ ms) 3.32 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 21.80 or (oF) ____ Static Water Level ____ DO (mg/L) ____ Turb. (NTU) ____

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley	Tim Lovell	4-29-25	16:00
Tim Lovell	Vann Dan	4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-17 A	04.28.25	1335	Plastic 1L	1	MW8	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-17 B	04.28.25	1335	Plastic 500mL pH<2 w/HNO3	1	MW8	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-17 C	04.28.25	1335	Plastic 500mL pH<2 w/H2SO4	1	MW8	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-17 D	04.28.25	1335	CG 250mL pH<2 w/HCL	1	MW8	g / c	Mercury Tot 245.7
5044390-17 E	04.28.25	1335	CG 250mL pH<2 w/HCL	1	MW8	g / c	Mercury Tot 245.7

Preservation Check Performed by: KGD pH Paper Lot #: 213724

Field data collected by: Travis Jacobs Date (mm/dd/yy) 04.28.25 Time (24 hr) 1335

pH 6.58 Cond (~~umho~~ mS) 1.916 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 19.41 or (oF) _____ Static Water Level _____ DO (mg/L) .32 Turb. (NTU) 74.7

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Jacobs	[signature]	4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Sneed
required information

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-17 F	04·28·25	1335	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW8	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-17 G	04·28·25	1335	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW8	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-17 H	04·28·25	1335	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW8	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-17 I	04·28·25	1335	Plastic 1L pH<2 w/HNO3 Sub	1	MW8	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-17 J	04·28·25	1335	AG 250mL pH<2 w/H2SO4	1	MW8	g / c	TOC
			Preservation Check: pH : ✓				
5044390-18 A	04·28·25	1335	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-8	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 04·28·25 Time (24 hr) 1335

pH 6.58 Cond (~~umho~~ mS) 1.96 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 19.41 or (oF) _____ Static Water Level _____ DO (mg/L) .32 Turb. (NTU) 74.7

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Dave Medley
required information

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ___ Start time ___ End Date ___ End Time ___ Temp (oC) ___

Effluent: Start Date ___ Start time ___ End Date ___ End Time ___ Temp (oC) ___

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-19 A	04/29/25	0805	Plastic 1L	1	MW10	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-19 B	04/29/25	0805	Plastic 500mL pH<2 w/HNO3	1	MW10	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-19 C	04/29/25	0805	Plastic 500mL pH<2 w/H2SO4	1	MW10	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-19 D	04/29/25	0805	CG 250mL pH<2 w/HCL	1	MW10	g / c	Mercury Tot 245.7
5044390-19 E	04/29/25	0805	CG 250mL pH<2 w/HCL	1	MW10	g / c	Mercury Tot 245.7

Preservation Check Performed by: DCD

pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/29/25 Time (24 hr) 0805

pH 5.98 Cond (~~umho~~ mS) 3.43 Res Cl (mg/L) ___ Tot Cl (mg/L) ___ Free Cl (mg/L) ___

Temp (oC) 20.05 or (oF) ___ Static Water Level ___ DO (mg/L) ___ Turb. (NTU) ___

Flow: ___ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley	Tim Lovell	4-29-25	16:00
Tim Lovell	Dave De	4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Dave Medley
required information

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-19 F	04/29/25	0805	Plastic 1L pH<2 w/HNO3 Rad 226 Sub **Preservation Check: pH :** ✓	1	MW10	g / c	Radium 226 (sub)
5044390-19 G	04/29/25	0805	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW10	g / c	Radium 228 (sub)
5044390-19 H	04/29/25	0805	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW10	g / c	Radium 228 (sub)
5044390-19 I	04/29/25	0805	Plastic 1L pH<2 w/HNO3 Sub **Preservation Check: pH :** ✓	1	MW10	g / c	Radium Total (sub)
5044390-19 J	04/29/25	0805	AG 250mL pH<2 w/H2SO4 **Preservation Check: pH :** ✓	1	MW10	g / c	TOC
5044390-20 A	04/29/25	0805	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-10	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/29/25 Time (24 hr) _____

pH 5.98 Cond (~~umho~~ mS) 3.43 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.05 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley		4-29-25	16:00
		4-30-25	1414

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Printed: 4/11/2025 8:07:33AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Dave Medley
required information

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-21 A	04/28/25	1230	Plastic 1L	1	MW-10D	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-21 B	04/28/25	1230	Plastic 500mL pH<2 w/HNO3	1	MW-10D	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-21 C	04/28/25	1230	Plastic 500mL pH<2 w/H2SO4	1	MW-10D	g / c	COD TOC
			Preservation Check: pH :				
5044390-21 D	04/28/25	1230	CG 250mL pH<2 w/HCL	1	MW-10D	g / c	Mercury Tot 245.7
5044390-21 E	04/28/25	1230	CG 250mL pH<2 w/HCL	1	MW-10D	g / c	Mercury Tot 245.7

Preservation Check Performed by: LED

pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/28/25 Time (24 hr) 1230

pH 6.32 Cond (~~umho~~ mS) 3.12 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 19.88 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley	Tim Lovell	4-29-25	16:00
Tim Lovell		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Dave Medley *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-21 F	04/28/25	1230	Plastic 1L pH<2 w/HNO3 Rad 226 Sub **Preservation Check: pH :** ✓	1	MW-10D	g / c	Radium 226 (sub)
5044390-21 G	04/28/25	1230	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW-10D	g / c	Radium 228 (sub)
5044390-21 H	04/28/25	1230	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW-10D	g / c	Radium 228 (sub)
5044390-21 I	04/28/25	1230	Plastic 1L pH<2 w/HNO3 Sub **Preservation Check: pH :** ✓	1	MW-10D	g / c	Radium Total (sub)
5044390-21 J	04/28/25	1230	AG 250mL pH<2 w/H2SO4 **Preservation Check: pH :** ✓	1	MW-10D	g / c	TOC
5044390-22 A	04/28/25	1230	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-10D	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/28/25 Time (24 hr) 1230

pH 6.32 Cond (~~umho~~ MS) 3.12 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 19.88 or (oF) ____ Static Water Level ____ DO (mg/L) ____ Turb. (NTU) ____

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley		4-29-25	16:00
Tri'		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-23 A	4/28/25	0855	Plastic 1L	1	MW102	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-23 B	4/28/25	0855	Plastic 500mL pH<2 w/HNO3	1	MW102	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-23 C	4/28/25	0855	Plastic 500mL pH<2 w/H2SO4	1	MW102	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-23 D	4/28/25	0855	CG 250mL pH<2 w/HCL	1	MW102	g / c	Mercury Tot 245.7
5044390-23 E	4/28/25	0855	CG 250mL pH<2 w/HCL	1	MW102	g / c	Mercury Tot 245.7

Preservation Check Performed by: LED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/28/25 Time (24 hr) 0855

pH 6.75 Cond (~~umho~~ mS) 1.30 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 15.98 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4-29-25	1600
Tim Lovett		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

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Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-23 F	4/28/25	0855	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW102	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-23 G	4/28/25	0855	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW102	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-23 H	4/28/25	0855	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW102	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-23 I	4/28/25	0855	Plastic 1L pH<2 w/HNO3 Sub	1	MW102	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-23 J	4/28/25	0855	AG 250mL pH<2 w/H2SO4	1	MW102	g / c	TOC
			Preservation Check: pH : ✓				
5044390-24 A	4/28/25	0855	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-102	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/28/25 Time (24 hr) 0855

pH 12.75 Cond (mS/cm) 1.30 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 15.98 or (oF) ____ Static Water Level ____ DO (mg/L) ____ Turb. (NTU) ____

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4.29-25	1600
Tim Lamb		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

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Collected by (Signature): Dave Medley *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-25 A	04/28/25	1025	Plastic 1L	1	MW104	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-25 B	04/28/25	1025	Plastic 500mL pH<2 w/HNO3	1	MW104	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-25 C	04/28/25	1025	Plastic 500mL pH<2 w/H2SO4	1	MW104	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-25 D	04/28/25	1025	CG 250mL pH<2 w/HCL	1	MW104	g / c	Mercury Tot 245.7
5044390-25 E	04/28/25	1025	CG 250mL pH<2 w/HCL	1	MW104	g / c	Mercury Tot 245.7

Preservation Check Performed by: LED pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/28/25 Time (24 hr) 1025

pH 6.65 Cond (~~umho~~ mS) 2.19 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 19.99 or (oF) ____ Static Water Level ____ DO (mg/L) ____ Turb. (NTU) ____

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley		4-29-25	16:00
		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Dave Medley
required information

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-25 F	04/28/25	1025	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW104	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-25 G	04/28/25	1025	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW104	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-25 H	04/28/25	1025	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW104	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-25 I	04/28/25	1025	Plastic 1L pH<2 w/HNO3 Sub	1	MW104	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-25 J	04/28/25	1025	AG 250mL pH<2 w/H2SO4	1	MW104	g / c	TOC
			Preservation Check: pH : ✓				
5044390-26 A	04/28/25	1025	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-104	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/28/25 Time (24 hr) 1025

pH 6.65 Cond (umho MS) 2.19 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 19.99 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley		4-29-25	16:00
Tami Isaacs		4-30 KD	1414
		4-30-25	

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-27 A	4/28/25	1015	Plastic 1L	1	MW-105R	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-27 B	4/28/25	1015	Plastic 500mL pH<2 w/HNO3	1	MW-105R	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-27 C	4/28/25	1015	Plastic 500mL pH<2 w/H2SO4	1	MW-105R	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-27 D	4/28/25	1015	CG 250mL pH<2 w/HCL	1	MW-105R	g / c	Mercury Tot 245.7
5044390-27 E	4/28/25	1015	CG 250mL pH<2 w/HCL	1	MW-105R	g / c	Mercury Tot 245.7

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/28/25 Time (24 hr) 1015

pH 10.78 Cond (umho) 1.39 mS Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 15.75 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall	Tim Lovell	4-29-25	16:00
Tim Lovell	[illegible]	4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-27 F	4/28/25	1015	Plastic 1L pH<2 w/HNO3 Rad 226 Sub **Preservation Check: pH :** ✓	1	MW-105R	g / c	Radium 226 (sub)
5044390-27 G	4/28/25	1015	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW-105R	g / c	Radium 228 (sub)
5044390-27 H	4/28/25	1015	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW-105R	g / c	Radium 228 (sub)
5044390-27 I	4/28/25	1015	Plastic 1L pH<2 w/HNO3 Sub **Preservation Check: pH :** ✓	1	MW-105R	g / c	Radium Total (sub)
5044390-27 J	4/28/25	1015	AG 250mL pH<2 w/H2SO4 **Preservation Check: pH :** ✓	1	MW-105R	g / c	TOC
5044390-28 A	4/28/25	1015	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-105R	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: LED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/28/25 Time (24 hr) 1015

pH 12.78 Cond (~~µmho~~ mS) 1.39 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 15.75 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall	Tim Lovett	4.29.25	16:00
Tim Lovett		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Snead *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-29 A	04·28·25	0810	Plastic 1L	1	MW110	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-29 B	04·28·25	0810	Plastic 500mL pH<2 w/HNO3	1	MW110	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-29 C	04·28·25	0810	Plastic 500mL pH<2 w/H2SO4	1	MW110	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-29 D	04·28·25	0810	CG 250mL pH<2 w/HCL	1	MW110	g / c	Mercury Tot 245.7
5044390-29 E	04·28·25	0810	CG 250mL pH<2 w/HCL	1	MW110	g / c	Mercury Tot 245.7

Preservation Check Performed by: LED pH Paper Lot #: 213724

Field data collected by: Travis Snead Date (mm/dd/yy) 04·28·25 Time (24 hr) 0810

pH 5.77 Cond (~~umho~~ mS) .493 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 16.07 or (oF) _____ Static Water Level _____ DO (mg/L) 3.0 Turb. (NTU) 50.1

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Snead		4-30-25	1414

☐ **PACE- Check here if trip charge applied to associated COC**

Printed: 4/11/2025 8:07:33AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Sneed
required information

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-29 F	04.28.25	0810	Plastic 1L pH<2 w/HNO3 Rad 226 Sub **Preservation Check: pH :** ✓	1	MW110	g / c	Radium 226 (sub)
5044390-29 G	04.28.25	0810	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW110	g / c	Radium 228 (sub)
5044390-29 H	04.28.25	0810	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW110	g / c	Radium 228 (sub)
5044390-29 I	04.28.25	0810	Plastic 1L pH<2 w/HNO3 Sub **Preservation Check: pH :** ✓	1	MW110	g / c	Radium Total (sub)
5044390-29 J	04.28.25	0810	AG 250mL pH<2 w/H2SO4 **Preservation Check: pH :** ✓	1	MW110	g / c	TOC
5044390-30 A	04.28.25	0810	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-110	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: TSD pH Paper Lot #: D13724

Field data collected by: Travis Sneed Date (mm/dd/yy) 04.28.25 Time (24 hr) 0810

pH 5.77 Cond (~~umho~~ mS) .493 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 16.07 or (oF) _____ Static Water Level _____ DO (mg/L) 3.0 Turb. (NTU) 50.1

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[signature]	4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-31 A	04·28·25	1215	Plastic 1L	1	MW-111	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-31 B	04·28·25	1215	Plastic 500mL pH<2 w/HNO3	1	MW-111	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-31 C	04·28·25	1215	Plastic 500mL pH<2 w/H2SO4	1	MW-111	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-31 D	04·28·25	1215	CG 250mL pH<2 w/HCL	1	MW-111	g / c	Mercury Tot 245.7
5044390-31 E	04·28·25	1215	CG 250mL pH<2 w/HCL	1	MW-111	g / c	Mercury Tot 245.7

Preservation Check Performed by: LGD pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 04·28·25 Time (24 hr) 1215

pH 6.51 Cond (~~umho~~ mS) 3.66 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.39 or (oF) _____ Static Water Level _____ DO (mg/L) .41 Turb. (NTU) 12.4

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed		4-30-25	0441

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-31 F	04·28·25	1215	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW-111	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-31 G	04·28·25	1215	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-111	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-31 H	04·28·25	1215	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-111	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-31 I	04·28·25	1215	Plastic 1L pH<2 w/HNO3 Sub	1	MW-111	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-31 J	04·28·25	1215	AG 250mL pH<2 w/H2SO4	1	MW-111	g / c	TOC
			Preservation Check: pH : ✓				
5044390-32 A	04·28·25	1215	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-111	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Smead Date (mm/dd/yy) 04·28·25 Time (24 hr) 1215

pH 6.51 Cond (~~umho~~ mS) 3.66 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.39 or (oF) _____ Static Water Level _____ DO (mg/L) .41 Turb. (NTU) 12.4

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY
Workorder # 5044390

Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-33 A	4/28/25	1230	Plastic 1L	1	MW-112	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab) Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
5044390-33 B	4/28/25	1230	Plastic 500mL pH<2 w/HNO3	1	MW-112	g / c	
			Preservation Check: pH ✓				
5044390-33 C	4/28/25	1230	Plastic 500mL pH<2 w/H2SO4	1	MW-112	g / c	COD TOC
			Preservation Check: pH ✓				
5044390-33 D	4/28/25	1230	CG 250mL pH<2 w/HCL	1	MW-112	g / c	Mercury Tot 245.7
5044390-33 E	4/28/25	1230	CG 250mL pH<2 w/HCL	1	MW-112	g / c	Mercury Tot 245.7

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/28/25 Time (24 hr) 1230

pH 10.79 Cond (~~umho~~) MS 1.21 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 10.5C or (oF) ____ Static Water Level ____ DO (mg/L) ____ Turb. (NTU) ____

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4.29.25	16:00
		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

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Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY
Workorder # 5044390

Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-33 F	4/28/25	1230	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW-112	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-33 G	4/28/25	1230	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-112	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-33 H	4/28/25	1230	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-112	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-33 I	4/28/25	1230	Plastic 1L pH<2 w/HNO3 Sub	1	MW-112	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-33 J	4/28/25	1230	AG 250mL pH<2 w/H2SO4	1	MW-112	g / c	TOC
			Preservation Check: pH : ✓				
5044390-34 A	4/28/25	1230	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-112	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KAD pH Paper Lot #: 213720

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/28/25 Time (24 hr) 1230

pH 6.79 Cond (~~umho~~ mS) 1.21 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 14.56 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4-29-25	16:00
		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Dave Medley
required information

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-35 A	04/28/25	0735	Plastic 1L	1	MW-113	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-35 B	04/28/25	0735	Plastic 500mL pH<2 w/HNO3	1	MW-113	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-35 C	04/28/25	0735	Plastic 500mL pH<2 w/H2SO4	1	MW-113	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-35 D	04/28/25	0735	CG 250mL pH<2 w/HCL	1	MW-113	g / c	Mercury Tot 245.7
5044390-35 E	04/28/25	0735	CG 250mL pH<2 w/HCL	1	MW-113	g / c	Mercury Tot 245.7

Preservation Check Performed by: LCD pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/28/25 Time (24 hr) 0735

pH 6.36 Cond (~~umho~~ mS) 2.09 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 17.31 or (oF) ____ Static Water Level ____ DO (mg/L) ____ Turb. (NTU) ____

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley	Tori Sneed	4-29-25	16:00
Tori Sneed		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Dave Medley
required information

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-35 F	04/28/25	0735	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW-113	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-35 G	04/28/25	0735	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-113	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-35 H	04/28/25	0735	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-113	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-35 I	04/28/25	0735	Plastic 1L pH<2 w/HNO3 Sub	1	MW-113	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-35 J	04/28/25	0735	AG 250mL pH<2 w/H2SO4	1	MW-113	g / c	TOC
			Preservation Check: pH : ✓				
5044390-36 A	04/28/25	0735	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-113	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: VED pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/28/25 Time (24 hr) 0735

pH 6.36 Cond (~~umho~~ MS) 2.09 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 17.31 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley	Tim Lund	4.29.25	16:00
Tim Lund		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Dave Medley *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-37 A	04/28/25	1440	Plastic 1L	1	MW-114	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-37 B	04/28/25	1440	Plastic 500mL pH<2 w/HNO3	1	MW-114	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-37 C	04/28/25	1440	Plastic 500mL pH<2 w/H2SO4	1	MW-114	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-37 D	04/28/25	1440	CG 250mL pH<2 w/HCL	1	MW-114	g / c	Mercury Tot 245.7
5044390-37 E	04/28/25	1440	CG 250mL pH<2 w/HCL	1	MW-114	g / c	Mercury Tot 245.7

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/28/25 Time (24 hr) 1440

pH 6.97 Cond (MS umho) 0.989 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 23.65 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley	Tim Friend	4-29-25	16:00
Tim Friend		4-30-25	1414

☐ **PACE- Check here if trip charge applied to associated COC**

Printed: 4/11/2025 8:07:33AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Dave Medley
required information

Compliance Monitoring? Yes ✓ No
Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-37 F	04/28/25	1440	Plastic 1L pH<2 w/HNO3 Rad 226 Sub **Preservation Check: pH :** ✓	1	MW-114	g / c	Radium 226 (sub)
5044390-37 G	04/28/25	1440	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW-114	g / c	Radium 228 (sub)
5044390-37 H	04/28/25	1440	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW-114	g / c	Radium 228 (sub)
5044390-37 I	04/28/25	1440	Plastic 1L pH<2 w/HNO3 Sub **Preservation Check: pH :** ✓	1	MW-114	g / c	Radium Total (sub)
5044390-37 J	04/28/25	1440	AG 250mL pH<2 w/H2SO4 **Preservation Check: pH :** ✓	1	MW-114	g / c	TOC
5044390-38 A	04/28/25	1440	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-114	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Dave Medley Date (mm/dd/yy) 04/28/25 Time (24 hr) 1440

pH 6.97 Cond (~~umho~~ mS) 0.989 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 23.65 or (oF) ____ Static Water Level ____ DO (mg/L) ____ Turb. (NTU) ____

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Dave Medley	Tim Arnett	4-29-25	1600
Tim Arnett	[signature]	4-30-25	1414

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Printed: 4/11/2025 8:07:33AM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Sneed
required information

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-39 A	04-28-25	0827	Plastic 1L	1	Well Duplicate 1	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab) Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
5044390-39 B	04-28-25	0827	Plastic 500mL pH<2 w/HNO3	1	Well Duplicate 1	g / c	
			Preservation Check: pH : ✓				
5044390-39 C	04-28-25	0827	Plastic 500mL pH<2 w/H2SO4	1	Well Duplicate 1	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-39 D	04-28-25	0827	CG 250mL pH<2 w/HCL	1	Well Duplicate 1	g / c	Mercury Tot 245.7
5044390-39 E	04-28-25	0827	CG 250mL pH<2 w/HCL	1	Well Duplicate 1	g / c	Mercury Tot 245.7

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 04-28-25 Time (24 hr) 0827

pH 5.77 Cond (~~umhos~~ mS) .493 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 16.07 or (oF) _____ Static Water Level _____ DO (mg/L) 3.0 Turb. (NTU) 50.1

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[signature]	4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

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Collected by (Signature): Travis Smith *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-39 F	04·28·25	0827	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	Well Duplicate 1	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-39 G	04·28·25	0827	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Well Duplicate 1	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-39 H	04·28·25	0827	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Well Duplicate 1	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-39 I	04·28·25	0827	Plastic 1L pH<2 w/HNO3 Sub	1	Well Duplicate 1	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-39 J	04·28·25	0827	AG 250mL pH<2 w/H2SO4	1	Well Duplicate 1	g / c	TOC
			Preservation Check: pH : ✓				
5044390-40 A	04·28·25	0827	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank Well Dup-1	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: ICD pH Paper Lot #: 213724

Field data collected by: Travis Smith Date (mm/dd/yy) 04·28·25 Time (24 hr) 0827

pH 5.77 Cond (~~umho~~ mS) .493 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 16.07 or (oF) ____ Static Water Level ____ DO (mg/L) 3.0 Turb. (NTU) 50.1

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Smith	[illegible]	4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-43 A	4/29/25	1055	Plastic 1L	1	Field Blank	g / c	Alkalinity Bicarbonate Alkalinity Carbonate TDS Sulfate 300.0 Alkalinity Total Fluoride 300.0 Chloride 300.0 Conductivity (Lab)
5044390-43 B	4/29/25	1055	Plastic 500mL pH<2 w/HNO3	1	Field Blank	g / c	Calcium Tot 6010B Arsenic Tot 6020 Cadmium Tot 6020 Boron Tot 6010B Chromium Tot 6020 Barium Tot 6020 Lithium Tot 6020 Antimony Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Copper Tot 6020 Lead Tot 6020 Zinc Tot 6020 Magnesium Tot 6010B Molybdenum Tot 6020
			Preservation Check: pH : ✓				
5044390-43 C	4/29/25	1055	Plastic 500mL pH<2 w/H2SO4	1	Field Blank	g / c	COD TOC
			Preservation Check: pH : ✓				
5044390-43 D	4/29/25	1055	CG 250mL pH<2 w/HCL	1	Field Blank	g / c	Mercury Tot 245.7
5044390-43 E	4/29/25	1055	CG 250mL pH<2 w/HCL	1	Field Blank	g / c	Mercury Tot 245.7

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/29/25 Time (24 hr) 1055

pH 6.44 Cond ~~(uMHO)~~ 3.35 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 20.00 or (oF) ____ Static Water Level ____ DO (mg/L) ____ Turb. (NTU) ____

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4-29-25	16:00
Tim Sand		4-30-25	1414

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 04/28/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Thermometer Serial Number
230753815
240381205
Temperature 4.5 °C

Please Print Legibly

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Collected by (Signature): Ashley Hall *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5044390 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5044390-43 F	4/29/25	1055	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	Field Blank	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5044390-43 G	4/29/25	1055	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Field Blank	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-43 H	4/29/25	1055	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Field Blank	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5044390-43 I	4/29/25	1055	Plastic 1L pH<2 w/HNO3 Sub	1	Field Blank	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5044390-43 J	4/29/25	1055	AG 250mL pH<2 w/H2SO4	1	Field Blank	g / c	TOC
			Preservation Check: pH : ✓				
5044390-44 A	4/29/25	1055	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank	g / c	Mercury Tot 245.7 Field Blank

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Ashley Hall Date (mm/dd/yy) 4/29/25 Time (24 hr) 1055

pH 10.44 Cond ~~(umhos)~~ 3.35 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.00 or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Ashley Hall		4-29-25	16:00
		4-30-25	1414

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Pace Analytical Services, LLC
P.O. Box 907
Madisonville, KY 42431
270.821.7375
www.pacelabs.com

Certificate of Analysis
5092520

Brian Edwards
Big Rivers Electric Corporation Wilson Station
PO Box 20015
Owensboro, KY 42304

Customer ID: 44-100168
Report Printed: 10/27/2025 08:20

Project Name:	Wilson Groundwater Wells 092-00004	Workorder:	5092520

Dear Brian Edwards

Enclosed are the analytical results for samples received by the laboratory 09/25/ 2025 11:30.

The results relate to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services LLC Kentucky - Madisonville - 825 Industrial Road, Madisonville, KY 42431

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

#460210 Madisonville, KY
#460291 Pikeville, KY
#E871136 Englewood, OH

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Rob Whittington, Project Manager

Pace Analytical Services, LLC
P.O. Box 907
Madisonville, KY 42431
270.821.7375
www.pacelabs.com

SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
5092520-01	MW1/	Groundwater	09/24/2025 07:05	09/25/2025 11:30	Travis Sneed
5092520-02	Mercury Field Blank MW-1/	Water	09/24/2025 07:05	09/25/2025 11:30	Travis Sneed
5092520-03	MW2/	Groundwater	09/24/2025 12:00	09/25/2025 11:30	Travis Sneed
5092520-04	Mercury Field Blank MW-2/	Water	09/24/2025 12:00	09/25/2025 11:30	Travis Sneed
5092520-05	MW3/	Groundwater	09/24/2025 11:40	09/25/2025 11:30	Travis Sneed
5092520-06	Mercury Field Blank MW-3/	Water	09/24/2025 11:40	09/25/2025 11:30	Travis Sneed
5092520-07	MW4/	Groundwater	09/24/2025 10:45	09/25/2025 11:30	Travis Sneed
5092520-08	Mercury Field Blank MW-4/	Water	09/24/2025 10:45	09/25/2025 11:30	Travis Sneed
5092520-09	MW4D/	Groundwater	09/23/2025 09:25	09/25/2025 11:30	Travis Sneed
5092520-10	Mercury Field Blank MW-4D/	Water	09/23/2025 09:25	09/25/2025 11:30	Travis Sneed
5092520-11	MW5/	Groundwater	09/24/2025 07:40	09/25/2025 11:30	Travis Sneed
5092520-12	Mercury Field Blank MW-5/	Water	09/24/2025 07:40	09/25/2025 11:30	Travis Sneed
5092520-13	MW6/	Groundwater	09/24/2025 09:55	09/25/2025 11:30	Travis Sneed
5092520-14	Mercury Field Blank MW-6/	Water	09/24/2025 09:55	09/25/2025 11:30	Travis Sneed
5092520-15	MW7/	Groundwater	09/24/2025 08:50	09/25/2025 11:30	Travis Sneed
5092520-16	Mercury Field Blank MW-7/	Water	09/24/2025 08:50	09/25/2025 11:30	Travis Sneed
5092520-17	MW8/	Groundwater	09/24/2025 07:50	09/25/2025 11:30	Travis Sneed
5092520-18	Mercury Field Blank MW-8/	Water	09/24/2025 07:50	09/25/2025 11:30	Travis Sneed
5092520-19	MW10/	Groundwater	09/24/2025 11:35	09/25/2025 11:30	Travis Sneed
5092520-20	Mercury Field Blank MW-10/	Water	09/24/2025 11:35	09/25/2025 11:30	Travis Sneed
5092520-21	MW-10D/	Groundwater	09/23/2025 11:00	09/25/2025 11:30	Travis Sneed
5092520-22	Mercury Field Blank MW-10D/	Water	09/23/2025 11:00	09/25/2025 11:30	Travis Sneed
5092520-23	MW102/	Groundwater	09/23/2025 11:50	09/25/2025 11:30	Travis Sneed
5092520-24	Mercury Field Blank MW-102/	Water	09/23/2025 11:50	09/25/2025 11:30	Travis Sneed
5092520-25	MW104/	Groundwater	09/23/2025 09:30	09/25/2025 11:30	Travis Sneed
5092520-26	Mercury Field Blank MW-104/	Water	09/23/2025 09:30	09/25/2025 11:30	Travis Sneed
5092520-27	MW-105R/	Groundwater	09/23/2025 07:35	09/25/2025 11:30	Travis Sneed
5092520-28	Mercury Field Blank MW-105R/	Water	09/23/2025 07:35	09/25/2025 11:30	Travis Sneed

Pace Analytical Services, LLC
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Madisonville, KY 42431
270.821.7375
www.pacelabs.com

SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
5092520-29	MW110/	Groundwater	09/23/2025 07:50	09/25/2025 11:30	Travis Sneed
5092520-30	Mercury Field Blank MW-110/	Water	09/23/2025 07:50	09/25/2025 11:30	Travis Sneed
5092520-31	MW-111/	Groundwater	09/23/2025 12:05	09/25/2025 11:30	Travis Sneed
5092520-32	Mercury Field Blank MW-111/	Water	09/23/2025 12:05	09/25/2025 11:30	Travis Sneed
5092520-33	MW-112/	Groundwater	09/23/2025 09:40	09/25/2025 11:30	Travis Sneed
5092520-34	Mercury Field Blank MW-112/	Water	09/23/2025 09:40	09/25/2025 11:30	Travis Sneed
5092520-35	MW-113/	Groundwater	09/23/2025 07:50	09/25/2025 11:30	Travis Sneed
5092520-36	Mercury Field Blank MW-113/	Water	09/23/2025 07:50	09/25/2025 11:30	Travis Sneed
5092520-37	MW-114/	Groundwater	09/23/2025 10:25	09/25/2025 11:30	Travis Sneed
5092520-38	Mercury Field Blank MW-114/	Water	09/23/2025 10:25	09/25/2025 11:30	Travis Sneed
5092520-39	Well Duplicate 1/	Groundwater	09/23/2025 08:07	09/25/2025 11:30	Travis Sneed
5092520-40	Mercury Field Blank Well Dup-1/	Water	09/23/2025 08:07	09/25/2025 11:30	Travis Sneed
5092520-41	Well Duplicate 2/	Groundwater	09/24/2025 11:58	09/25/2025 11:30	Travis Sneed
5092520-42	Mercury Field Blank Well Dup-2/	Water	09/24/2025 11:58	09/25/2025 11:30	Travis Sneed
5092520-43	Field Blank/	Water	09/24/2025 08:15	09/25/2025 11:30	Travis Sneed
5092520-44	Mercury Field Blank/	Water	09/24/2025 08:15	09/25/2025 11:30	Travis Sneed

Pace Analytical Services, LLC
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Madisonville, KY 42431
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LabNumber	Measurement	Value
5092520-01	Field Conductance	3630
	Field Dissolved Oxygen	0.0
	Field pH	5.92
	Field Temp (C)	17.29
	Field Turbidity	49.8
5092520-03	Field Conductance	864
	Field Dissolved Oxygen	0.00
	Field pH	6.37
	Field Temp (C)	20.19
	Field Turbidity	17.3
5092520-05	Field Conductance	1870
	Field Dissolved Oxygen	0.00
	Field pH	6.47
	Field Temp (C)	20.09
	Field Turbidity	69.8
5092520-07	Field Conductance	2380
	Field Dissolved Oxygen	0.00
	Field pH	6.17
	Field Temp (C)	19.45
	Field Turbidity	3.2
5092520-09	Field Conductance	5080
	Field Dissolved Oxygen	0.00
	Field pH	6.33
	Field Temp (C)	20.01
	Field Turbidity	99.3
5092520-11	Field Conductance	4720
	Field Dissolved Oxygen	0.66
	Field pH	6.24
	Field Temp (C)	19.83
	Field Turbidity	2.5
5092520-13	Field Conductance	3430
	Field Dissolved Oxygen	0.00
	Field pH	6.27
	Field Temp (C)	19.42
	Field Turbidity	12.2
5092520-15	Field Conductance	2860
	Field Dissolved Oxygen	0.00
	Field pH	6.31
	Field Temp (C)	17.66
	Field Turbidity	55.0
5092520-17	Field Conductance	1910
	Field Dissolved Oxygen	0.00
	Field pH	6.32
	Field Temp (C)	18.37
	Field Turbidity	183.0
5092520-19	Field Conductance	3640
	Field Dissolved Oxygen	0.17
	Field pH	5.91
	Field Temp (C)	20.75
	Field Turbidity	7.8
5092520-21	Field Conductance	3770
	Field Dissolved Oxygen	0.17
	Field pH	6.32
	Field Temp (C)	28.11
	Field Turbidity	0.2
5092520-23	Field Conductance	1170
	Field Dissolved Oxygen	0.00

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5092520-23	Field pH	6.61
	Field Temp (C)	18.32
	Field Turbidity	6.0
5092520-25	Field Conductance	2110
	Field Dissolved Oxygen	0.00
	Field pH	6.57
	Field Temp (C)	18.49
	Field Turbidity	120
5092520-27	Field Conductance	1250
	Field Dissolved Oxygen	0.01
	Field pH	6.63
	Field Temp (C)	18.03
	Field Turbidity	36.0
5092520-29	Field Conductance	437
	Field Dissolved Oxygen	0.47
	Field pH	6.77
	Field Temp (C)	18.65
	Field Turbidity	61.6
5092520-31	Field Conductance	3540
	Field Dissolved Oxygen	0.23
	Field pH	6.72
	Field Temp (C)	20.35
	Field Turbidity	4.8
5092520-33	Field Conductance	1360
	Field Dissolved Oxygen	0.00
	Field pH	6.96
	Field Temp (C)	18.70
	Field Turbidity	8.2
5092520-35	Field Conductance	1920
	Field Dissolved Oxygen	0.05
	Field pH	6.72
	Field Temp (C)	17.84
	Field Turbidity	36.1
5092520-37	Field Conductance	948
	Field Dissolved Oxygen	0.00
	Field pH	6.90
	Field Temp (C)	19.09
	Field Turbidity	4.6
5092520-39	Field Conductance	437
	Field Dissolved Oxygen	0.47
	Field pH	6.77
	Field Temp (C)	18.65
	Field Turbidity	61.6
5092520-41	Field Conductance	1870
	Field Dissolved Oxygen	0.00
	Field pH	6.47
	Field Temp (C)	20.09
	Field Turbidity	69.8

Pace Analytical Services, LLC
P.O. Box 907
Madisonville, KY 42431
270.821.7375
www.pacelabs.com

ANALYTICAL RESULTS

Lab Sample ID: **5092520-01**
Description: **MW1**

Sample Collection Date Time: 09/24/2025 07:05
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:35	HJS
Arsenic	**0.0031**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 13:59	HJS
Barium	**0.008**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:35	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 13:59	HJS
Boron	**0.20**	M2	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:14	MRWD
Cadmium	**0.0002**	J	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:01	HJS
Calcium	**563**	D1, M3	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:20	MRWD
Chromium	**0.0007**	L1, J	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:35	HJS
Cobalt	**0.206**	M2	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 13:59	HJS
Copper	ND	L1, U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:35	HJS
Iron	**46.6**	D1, M2	mg/L	1.00	0.500	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:17	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:35	HJS
Lithium	**0.11**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:06	DMH
Magnesium	**196**	D1, M3	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:20	MRWD
Molybdenum	**0.004**	L1, J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:35	HJS
Nickel	**0.392**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/30/2025 13:59	HJS
Potassium	**7.44**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:14	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:35	HJS
Sodium	**105**	D1, M3	mg/L	26.0	10.0	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:20	MRWD
Thallium	**0.0001**	J	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:35	HJS
Zinc	**0.06**		mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:01	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 16:02	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**201**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**201**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**20**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**3680**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 10:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**2920**		mg/L	250	250	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**1.9**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 04:11	10/02/2025 04:11	HMF

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**37.2**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 11:18	09/26/2025 11:18	CDD
Fluoride	**0.90**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 11:18	09/26/2025 11:18	CDD
Sulfate	**2060**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 11:40	09/26/2025 11:40	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2210**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/26/2025 23:20	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-02**
Description: **Mercury Field Blank MW-1**

Sample Collection Date Time: 09/24/2025 07:05
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 15:22	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-03**
Description: **MW2**

Sample Collection Date Time: 09/24/2025 12:00
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Arsenic	**0.0357**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:03	HJS
Barium	**0.168**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:03	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:24	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Calcium	**66.9**	D1	mg/L	5.00	2.50	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:27	MRWD
Chromium	ND	L1, U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Cobalt	**0.006**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:03	HJS
Copper	ND	L1, U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Iron	**29.0**	D1	mg/L	1.00	0.500	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:27	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Lithium	ND	U	mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:09	DMH
Magnesium	**39.0**	D1	mg/L	2.00	0.900	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:27	MRWD
Molybdenum	**0.002**	L1, J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Nickel	**0.001**	L1, J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Potassium	**0.75**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:24	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Sodium	**57.1**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:27	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS
Zinc	**0.008**	L1, J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:51	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 16:07	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**376**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**376**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**38**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**890**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 10:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**788**		mg/L	100	100	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**9.1**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 04:33	10/02/2025 04:33	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**12.8**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 12:03	09/26/2025 12:03	CDD
Fluoride	**0.34**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 12:03	09/26/2025 12:03	CDD
Sulfate	**38.9**		mg/L	1.0	1.0	EPA 300.0 REV 2.1	09/26/2025 12:03	09/26/2025 12:03	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**327**	D	mg/L	20.7	9.95	2340 B-1997	09/26/2025 08:47	09/26/2025 23:27	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-04**
Description: **Mercury Field Blank MW-2**

Sample Collection Date Time: 09/24/2025 12:00
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 15:28	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-05**
Description: **MW3**

Sample Collection Date Time: 09/24/2025 11:40
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS
Arsenic	**0.0010**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:06	HJS
Barium	**0.016**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:06	HJS
Boron	**0.88**		mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:46	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS
Calcium	**259**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:33	MRWD
Chromium	ND	L1, U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS
Cobalt	**0.005**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:06	HJS
Copper	ND	L1, U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS
Iron	**4.59**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:46	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS
Lithium	**0.04**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:11	DMH
Magnesium	**88.2**	D1	mg/L	2.00	0.900	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:49	MRWD
Molybdenum	**0.002**	L1, J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS
Nickel	**0.006**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:06	HJS
Potassium	**6.06**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:46	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS
Sodium	**44.7**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:49	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS
Zinc	**0.01**	L1, J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 15:56	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	M2, U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 16:13	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**458**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**458**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**8**	J	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**2000**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 10:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**3710**		mg/L	250	250	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**1.2**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 04:54	10/02/2025 04:54	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**58.7**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 12:47	09/26/2025 12:47	CDD
Fluoride	**0.24**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 12:47	09/26/2025 12:47	CDD
Sulfate	**670**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 13:10	09/26/2025 13:10	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**1010**	D	mg/L	133	66.1	2340 B-1997	09/26/2025 08:47	09/26/2025 23:49	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-06**
Description: **Mercury Field Blank MW-3**

Sample Collection Date Time: 09/24/2025 11:40
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 15:33	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-07**
Description: **MW4**

Sample Collection Date Time: 09/24/2025 10:45
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:01	HJS
Arsenic	**0.0014**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:08	HJS
Barium	**0.014**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:01	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:08	HJS
Boron	**1.00**		mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:52	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:01	HJS
Calcium	**378**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:58	MRWD
Chromium	ND	L1, U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:01	HJS
Cobalt	**0.021**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:08	HJS
Copper	ND	L1, U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:01	HJS
Iron	**13.8**	D1	mg/L	1.00	0.500	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:55	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:01	HJS
Lithium	**0.04**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:13	DMH
Magnesium	**131**	D1	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:58	MRWD
Molybdenum	ND	L1, U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:01	HJS
Nickel	**0.027**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:08	HJS
Potassium	**8.79**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:52	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:01	HJS
Sodium	**61.4**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/26/2025 23:55	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:01	HJS
Zinc	**0.02**		mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:08	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 16:19	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**228**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**228**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**2420**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 10:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**1740**		mg/L	250	250	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**1.1**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 05:15	10/02/2025 05:15	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**66.4**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 13:32	09/26/2025 13:32	CDD
Fluoride	**0.31**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 13:32	09/26/2025 13:32	CDD
Sulfate	**1100**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 13:54	09/26/2025 13:54	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**1480**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/26/2025 23:58	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-08**
Description: **Mercury Field Blank MW-4**

Sample Collection Date Time: 09/24/2025 10:45
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 15:39	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-09**
Description: **MW4D**

Sample Collection Date Time: 09/23/2025 09:25
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:05	HJS
Arsenic	**0.0058**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:10	HJS
Barium	**0.015**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:05	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:10	HJS
Boron	**6.38**	D1	mg/L	1.00	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:05	MRWD
Cadmium	**0.0001**	J	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:05	HJS
Calcium	**696**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:08	MRWD
Chromium	**0.0011**	L1, J	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:05	HJS
Cobalt	**0.023**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:10	HJS
Copper	**0.001**	L1, J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:05	HJS
Iron	**22.9**	D1	mg/L	1.00	0.500	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:05	MRWD
Lead	**0.001**	J	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:05	HJS
Lithium	**0.15**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:27	DMH
Magnesium	**273**	D1	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:08	MRWD
Molybdenum	**0.008**	L1, J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:05	HJS
Nickel	**0.052**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:10	HJS
Potassium	**35.7**	D1	mg/L	5.00	2.20	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:05	MRWD
Selenium	**0.001**	J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:05	HJS
Sodium	**229**	D1	mg/L	26.0	10.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:08	MRWD
Thallium	**0.0002**	J	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:05	HJS
Zinc	**0.14**		mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:10	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 16:24	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**400**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**400**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**49**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**5340**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 10:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**2810**		mg/L	250	250	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**0.8**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 05:36	10/02/2025 05:36	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**549**	D	mg/L	5.0	3.6	EPA 300.0 REV 2.1	09/26/2025 14:39	09/26/2025 14:39	CDD
Fluoride	**0.26**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 14:17	09/26/2025 14:17	CDD
Sulfate	**1880**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 14:39	09/26/2025 14:39	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2860**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/27/2025 00:08	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-10**
Description: **Mercury Field Blank MW-4D**

Sample Collection Date Time: 09/23/2025 09:25
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/26/2025 10:59	09/26/2025 15:45	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-11**
Description: **MW5**

Sample Collection Date Time: 09/24/2025 07:40
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Arsenic	**0.0030**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:13	HJS
Barium	**0.012**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:13	HJS
Boron	**1.30**	D1, M2	mg/L	1.00	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:27	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Calcium	**704**	D1, M3	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:11	MRWD
Chromium	ND	L1, U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Cobalt	ND	L1, U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Copper	**0.001**	L1, J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Iron	**8.56**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:24	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Lithium	**0.05**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:30	DMH
Magnesium	**328**	D1, M3	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:11	MRWD
Molybdenum	**0.004**	L1, J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Nickel	**0.004**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:13	HJS
Potassium	**9.78**	D1	mg/L	5.00	2.20	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:27	MRWD
Selenium	**0.001**	J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Sodium	**138**	D1, M3	mg/L	26.0	10.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:11	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:24	HJS
Zinc	**0.02**	M1	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:13	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 12:26	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**433**		mg/L	4	4	2320 B-2011	10/01/2025 10:25	10/01/2025 10:25	DJK
Bicarbonate Alkalinity as CaCO3	**433**		mg/L	4	4	2320 B-2011	10/01/2025 10:25	10/01/2025 10:25	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	10/01/2025 10:25	10/01/2025 10:25	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	10/01/2025 10:25	10/01/2025 10:25	DJK
Chemical Oxygen Demand	**45**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**5120**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 10:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**4670**		mg/L	250	250	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**1.1**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 05:58	10/02/2025 05:58	HMF

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Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**470**	D	mg/L	5.0	3.6	EPA 300.0 REV 2.1	09/26/2025 16:09	09/26/2025 16:09	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	09/26/2025 15:46	09/26/2025 15:46	CDD
Sulfate	**1930**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 16:09	09/26/2025 16:09	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**3110**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/27/2025 00:11	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-12**
Description: **Mercury Field Blank MW-5**

Sample Collection Date Time: 09/24/2025 07:40
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 11:18	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-13**
Description: **MW6**

Sample Collection Date Time: 09/24/2025 09:55
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:26	HJS
Arsenic	**0.0056**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:15	HJS
Barium	**0.012**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:26	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:15	HJS
Boron	**1.55**	D1	mg/L	1.00	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:33	MRWD
Cadmium	**0.0001**	J	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:26	HJS
Calcium	**525**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:36	MRWD
Chromium	ND	L1, U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:26	HJS
Cobalt	**0.008**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:15	HJS
Copper	ND	L1, U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:26	HJS
Iron	**5.95**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:30	MRWD
Lead	**0.0009**	J	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:26	HJS
Lithium	**0.04**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:32	DMH
Magnesium	**250**	D1	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:36	MRWD
Molybdenum	**0.006**	L1, J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:26	HJS
Nickel	**0.015**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:15	HJS
Potassium	**8.40**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:30	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:26	HJS
Sodium	**42.6**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:33	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:26	HJS
Zinc	**0.03**		mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:15	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 12:32	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**540**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**540**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**13**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**3260**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**2600**		mg/L	250	250	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**1.7**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 06:19	10/02/2025 06:19	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**83.7**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 16:31	09/26/2025 16:31	CDD
Fluoride	**0.20**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 16:31	09/26/2025 16:31	CDD
Sulfate	**1660**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 16:54	09/26/2025 16:54	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2340**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/27/2025 00:36	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-14**
Description: **Mercury Field Blank MW-6**

Sample Collection Date Time: 09/24/2025 09:55
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 11:24	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-15**
Description: **MW7**

Sample Collection Date Time: 09/24/2025 08:50
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Arsenic	**0.0037**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:17	HJS
Barium	**0.012**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:17	HJS
Boron	**3.28**	D1	mg/L	1.00	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:43	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Calcium	**429**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:46	MRWD
Chromium	**0.0006**	L1, J	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Cobalt	ND	L1, U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Copper	ND	L1, U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Iron	**4.70**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:40	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Lithium	**0.03**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:34	DMH
Magnesium	**151**	D1	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:46	MRWD
Molybdenum	**0.004**	L1, J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Nickel	**0.006**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:17	HJS
Potassium	**6.63**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:40	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Sodium	**49.2**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:43	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS
Zinc	**0.01**	L1, J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:31	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 12:37	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**334**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**334**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**26**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**3080**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**2720**		mg/L	250	250	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**1.5**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 06:40	10/02/2025 06:40	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**158**	D	mg/L	5.0	3.6	EPA 300.0 REV 2.1	09/26/2025 17:38	09/26/2025 17:38	CDD
Fluoride	**0.24**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 17:16	09/26/2025 17:16	CDD
Sulfate	**1190**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 17:38	09/26/2025 17:38	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**1690**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/27/2025 00:46	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-16**
Description: **Mercury Field Blank MW-7**

Sample Collection Date Time: 09/24/2025 08:50
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 11:30	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-17**
Description: **MW8**

Sample Collection Date Time: 09/24/2025 07:50
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Arsenic	**0.0053**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:31	HJS
Barium	**0.019**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:31	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:02	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Calcium	**255**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:49	MRWD
Chromium	**0.0008**	L1, J	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Cobalt	ND	L1, U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Copper	ND	L1, U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Iron	**19.2**	D1	mg/L	1.00	0.500	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:05	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Lithium	**0.01**	J	mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:36	DMH
Magnesium	**127**	D1	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 00:49	MRWD
Molybdenum	**0.01**		mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:31	HJS
Nickel	**0.002**	L1, J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Potassium	**2.69**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:02	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Sodium	**33.9**		mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:05	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS
Zinc	**0.01**	L1, J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:35	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 12:43	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**285**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**285**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**20**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**1830**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**1540**		mg/L	100	100	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**2.7**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 07:01	10/02/2025 07:01	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**3.5**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 18:01	09/26/2025 18:01	CDD
Fluoride	**0.26**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 18:01	09/26/2025 18:01	CDD
Sulfate	**812**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 18:23	09/26/2025 18:23	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**1160**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/27/2025 00:49	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-18**
Description: **Mercury Field Blank MW-8**

Sample Collection Date Time: 09/24/2025 07:50
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 11:35	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-19**
Description: **MW10**

Sample Collection Date Time: 09/24/2025 11:35
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:40	HJS
Arsenic	**0.0043**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:34	HJS
Barium	**0.010**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:40	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:34	HJS
Boron	**0.42**		mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:08	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:40	HJS
Calcium	**481**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:15	MRWD
Chromium	ND	L1, U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:40	HJS
Cobalt	**0.089**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:34	HJS
Copper	ND	L1, U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:40	HJS
Iron	**31.2**	D1	mg/L	1.00	0.500	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:11	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:40	HJS
Lithium	**0.007**	J	mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:39	DMH
Magnesium	**268**	D1	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:15	MRWD
Molybdenum	ND	L1, U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:40	HJS
Nickel	**0.036**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:34	HJS
Potassium	**4.49**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:08	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:40	HJS
Sodium	**172**		mg/L	26.0	10.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:15	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:40	HJS
Zinc	**0.02**		mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:34	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 12:49	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**199**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**199**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**37**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**3900**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**2950**		mg/L	250	250	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**1.6**		mg/L	0.5	0.2	5310 C-2014	10/06/2025 18:03	10/06/2025 18:03	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**82.4**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 18:46	09/26/2025 18:46	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	09/26/2025 18:46	09/26/2025 18:46	CDD
Sulfate	**2150**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 19:08	09/26/2025 19:08	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2310**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/27/2025 01:15	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-20**
Description: **Mercury Field Blank MW-10**

Sample Collection Date Time: 09/24/2025 11:35
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 11:41	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-21**
Description: **MW-10D**

Sample Collection Date Time: 09/23/2025 11:00
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:56	HJS
Arsenic	**0.0028**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:36	HJS
Barium	**0.018**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:56	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:36	HJS
Boron	**4.03**		mg/L	1.00	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:21	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:56	HJS
Calcium	**569**		mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:24	MRWD
Chromium	ND	L1, U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:56	HJS
Cobalt	**0.013**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:36	HJS
Copper	ND	L1, U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:56	HJS
Iron	**25.3**	D1	mg/L	1.00	0.500	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:21	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:36	HJS
Lithium	**0.08**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:41	DMH
Magnesium	**197**	D1	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:24	MRWD
Molybdenum	**0.005**	L1, J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:56	HJS
Nickel	**0.023**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:36	HJS
Potassium	**13.6**		mg/L	5.00	2.20	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:21	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:56	HJS
Sodium	**124**		mg/L	26.0	10.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 01:24	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:56	HJS
Zinc	**0.01**	L1, J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 16:56	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 13:12	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**287**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**287**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**46**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**3940**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**3150**		mg/L	250	250	2540 C-2015	09/29/2025 16:52	09/29/2025 16:52	HAG
Total Organic Carbon	**0.7**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 07:22	10/02/2025 07:22	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**255**	D	mg/L	5.0	3.6	EPA 300.0 REV 2.1	09/26/2025 20:38	09/26/2025 20:38	CDD
Fluoride	**0.54**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 20:15	09/26/2025 20:15	CDD
Sulfate	**1640**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 20:38	09/26/2025 20:38	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2230**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/27/2025 01:24	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-22**
Description: **Mercury Field Blank MW-10D**

Sample Collection Date Time: 09/23/2025 11:00
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 11:58	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-23**
Description: **MW102**

Sample Collection Date Time: 09/23/2025 11:50
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Arsenic	**0.0029**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Barium	**0.040**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Boron	ND	U, M2	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:05	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Calcium	**90.5**	D1, M1	mg/L	5.00	2.50	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:08	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Iron	**2.36**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:05	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:41	HJS
Lithium	ND	U	mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:44	DMH
Magnesium	**40.3**	D1	mg/L	2.00	0.900	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:08	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Nickel	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Potassium	**0.95**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:05	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Sodium	**134**	D1, M3	mg/L	26.0	10.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:18	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS
Zinc	**0.008**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:33	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 13:18	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**296**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**296**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**8**	J	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**1360**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**828**		mg/L	100	100	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**1.0**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 09:30	10/02/2025 09:30	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**32.1**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 21:00	09/26/2025 21:00	CDD
Fluoride	**0.30**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 21:00	09/26/2025 21:00	CDD
Sulfate	**311**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 21:22	09/26/2025 21:22	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**392**	D	mg/L	20.7	9.95	2340 B-1997	09/26/2025 08:47	09/27/2025 02:08	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-24**
Description: **Mercury Field Blank MW-102**

Sample Collection Date Time: 09/23/2025 11:50
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 12:04	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-25**
Description: **MW104**

Sample Collection Date Time: 09/23/2025 09:30
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Arsenic	**0.0010**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Barium	**0.030**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:21	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Calcium	**361**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:27	MRWD
Chromium	**0.0013**	J	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Copper	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Iron	**4.97**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:21	MRWD
Lead	**0.001**	J	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:43	HJS
Lithium	**0.03**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 15:46	DMH
Magnesium	**113**	D1	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:27	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Nickel	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Potassium	**2.91**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:21	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Sodium	**94.0**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:24	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS
Zinc	**0.008**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:38	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 13:24	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**414**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**414**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**2500**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**1880**		mg/L	100	100	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**0.8**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 09:51	10/02/2025 09:51	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**11.4**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 21:45	09/26/2025 21:45	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	09/26/2025 21:45	09/26/2025 21:45	CDD
Sulfate	**909**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 22:07	09/26/2025 22:07	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**1370**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/27/2025 02:27	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-26**
Description: **Mercury Field Blank MW-104**

Sample Collection Date Time: 09/23/2025 09:30
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 12:09	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-27**
Description: **MW-105R**

Sample Collection Date Time: 09/23/2025 07:35
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Arsenic	**0.0009**	J	mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Barium	**0.018**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:31	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Calcium	**205**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:37	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Copper	**0.015**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Iron	**1.48**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:31	MRWD
Lead	**0.001**	J	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:45	HJS
Lithium	**0.03**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 16:00	DMH
Magnesium	**59.1**	D1	mg/L	2.00	0.900	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:34	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Nickel	**0.004**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Potassium	**1.88**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:31	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Sodium	**38.8**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:34	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 17:43	HJS
Zinc	**0.12**		mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:45	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 13:29	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**419**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**419**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**1320**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**1030**		mg/L	100	100	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**0.8**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 10:13	10/02/2025 10:13	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**12.1**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 22:30	09/26/2025 22:30	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	09/26/2025 22:30	09/26/2025 22:30	CDD
Sulfate	**339**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 22:52	09/26/2025 22:52	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**755**	D	mg/L	133	66.1	2340 B-1997	09/26/2025 08:47	09/27/2025 02:37	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-28**
Description: **Mercury Field Blank MW-105R**

Sample Collection Date Time: 09/23/2025 07:35
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 12:15	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-29**
Description: **MW110**

Sample Collection Date Time: 09/23/2025 07:50
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Arsenic	**0.0027**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Barium	**0.057**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:40	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Calcium	**3.83**		mg/L	0.50	0.25	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:40	MRWD
Chromium	**0.0006**	J	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Copper	**0.001**	J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Iron	**0.543**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:40	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:47	HJS
Lithium	ND	U	mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 16:02	DMH
Magnesium	**1.95**		mg/L	0.200	0.090	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:40	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Nickel	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Potassium	ND	U	mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:40	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Sodium	**2.65**		mg/L	0.26	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:40	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS
Zinc	**0.007**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:01	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 13:35	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**151**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**151**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**3870**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**272**		mg/L	50	50	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**1.2**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 10:34	10/02/2025 10:34	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**9.9**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/30/2025 22:38	09/30/2025 22:38	CDD
Fluoride	**0.31**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/30/2025 22:38	09/30/2025 22:38	CDD
Sulfate	**66.0**		mg/L	1.0	1.0	EPA 300.0 REV 2.1	09/30/2025 22:38	09/30/2025 22:38	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**17.6**		mg/L	2.07	0.995	2340 B-1997	09/26/2025 08:47	09/27/2025 02:40	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-30**
Description: **Mercury Field Blank MW-110**

Sample Collection Date Time: 09/23/2025 07:50
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/27/2025 08:37	09/27/2025 12:21	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-31**
Description: **MW-111**

Sample Collection Date Time: 09/23/2025 12:05
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Arsenic	**0.0025**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Barium	**0.016**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Boron	**0.21**		mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:56	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Calcium	**487**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/29/2025 13:38	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Cobalt	**0.014**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Iron	**13.3**	D1	mg/L	1.00	0.500	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:47	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 14:50	HJS
Lithium	**0.04**		mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 16:04	DMH
Magnesium	**248**	D1	mg/L	20.0	9.00	SW846 6010 B	09/26/2025 08:47	09/29/2025 13:38	MRWD
Molybdenum	**0.002**	J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Nickel	**0.015**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Potassium	**7.01**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:56	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Sodium	**72.0**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:47	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS
Zinc	**0.009**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:03	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	M2, U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 12:14	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**610**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**610**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**11**	J	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**3880**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**2700**		mg/L	250	250	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**2.6**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 10:55	10/02/2025 10:55	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**3.3**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 23:14	09/26/2025 23:14	CDD
Fluoride	**0.29**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 23:14	09/26/2025 23:14	CDD
Sulfate	**1720**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 23:37	09/26/2025 23:37	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**2240**	D	mg/L	207	99.5	2340 B-1997	09/26/2025 08:47	09/29/2025 13:38	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-32**
Description: **Mercury Field Blank MW-111**

Sample Collection Date Time: 09/23/2025 12:05
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 11:06	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-33**
Description: **MW-112**

Sample Collection Date Time: 09/23/2025 09:40
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Arsenic	**0.0017**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Barium	**0.030**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Boron	**0.13**		mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:59	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Calcium	**229**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/29/2025 13:41	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Cobalt	**0.005**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Copper	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Iron	**1.52**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:59	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 15:04	HJS
Lithium	**0.01**	J	mg/L	0.02	0.005	SW846-6020 A	10/04/2025 08:57	10/06/2025 16:07	DMH
Magnesium	**64.1**	D1	mg/L	2.00	0.900	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:02	MRWD
Molybdenum	**0.002**	J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Nickel	**0.006**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Potassium	**4.06**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 02:59	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Sodium	**18.4**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:02	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS
Zinc	**0.009**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:08	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 12:19	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**388**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**388**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**1710**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**1080**		mg/L	100	100	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**2.5**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 11:16	10/02/2025 11:16	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**2.6**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/27/2025 00:44	09/27/2025 00:44	CDD
Fluoride	**0.20**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/27/2025 00:44	09/27/2025 00:44	CDD
Sulfate	**534**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/27/2025 01:06	09/27/2025 01:06	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**835**	D	mg/L	133	66.1	2340 B-1997	09/26/2025 08:47	09/29/2025 13:41	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-34**
Description: **Mercury Field Blank MW-112**

Sample Collection Date Time: 09/23/2025 09:40
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 11:12	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-35**
Description: **MW-113**

Sample Collection Date Time: 09/23/2025 07:50
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Arsenic	**0.0117**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Barium	**0.017**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:06	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Calcium	**201**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/29/2025 13:44	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Copper	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Iron	**6.81**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:06	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 15:06	HJS
Lithium	**0.04**		mg/L	0.02	0.005	SW846-6020 A	09/26/2025 08:47	10/02/2025 10:16	HJS
Magnesium	**97.6**	D1	mg/L	2.00	0.900	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:09	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Nickel	**0.004**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Potassium	**2.41**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:06	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Sodium	**155**	D1	mg/L	26.0	10.0	SW846 6010 B	09/26/2025 08:47	09/29/2025 13:44	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS
Zinc	**0.009**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:13	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 12:25	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**429**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**429**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**13**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**2200**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**1950**		mg/L	100	100	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**3.2**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 11:37	10/02/2025 11:37	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**37.7**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/27/2025 01:28	09/27/2025 01:28	CDD
Fluoride	**0.20**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/27/2025 01:28	09/27/2025 01:28	CDD
Sulfate	**736**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/27/2025 01:51	09/27/2025 01:51	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**904**	D	mg/L	133	66.1	2340 B-1997	09/26/2025 08:47	09/29/2025 13:44	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-36**
Description: **Mercury Field Blank MW-113**

Sample Collection Date Time: 09/23/2025 07:50
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 11:17	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-37**
Description: **MW-114**

Sample Collection Date Time: 09/23/2025 10:25
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Arsenic	**0.0015**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Barium	**0.045**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:12	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Calcium	**105**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/29/2025 13:47	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Iron	**0.921**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:12	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 15:08	HJS
Lithium	**0.02**		mg/L	0.02	0.005	SW846-6020 A	09/26/2025 08:47	10/02/2025 10:18	HJS
Magnesium	**26.1**	D1	mg/L	2.00	0.900	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:15	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Nickel	**0.002**	J	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Potassium	**1.65**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:12	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Sodium	**85.2**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:15	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS
Zinc	**0.005**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:17	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 12:31	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**329**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**329**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**9**	J	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**1120**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**666**		mg/L	50	50	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**1.5**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 11:59	10/02/2025 11:59	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**36.0**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/27/2025 02:13	09/27/2025 02:13	CDD
Fluoride	**0.25**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/27/2025 02:13	09/27/2025 02:13	CDD
Sulfate	**164**		mg/L	1.0	1.0	EPA 300.0 REV 2.1	09/27/2025 02:13	09/27/2025 02:13	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**370**	D	mg/L	133	66.1	2340 B-1997	09/26/2025 08:47	09/29/2025 13:47	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-38**
Description: **Mercury Field Blank MW-114**

Sample Collection Date Time: 09/23/2025 10:25
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 11:23	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-39**
Description: **Well Duplicate 1**

Sample Collection Date Time: 09/23/2025 08:07
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Arsenic	**0.0022**		mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Barium	**0.060**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Boron	ND	U	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:18	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Calcium	**41.5**	D1	mg/L	5.00	2.50	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:21	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Iron	**4.60**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:18	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 15:11	HJS
Lithium	ND	U	mg/L	0.02	0.005	SW846-6020 A	09/26/2025 08:47	10/02/2025 10:21	HJS
Magnesium	**19.0**	D1	mg/L	2.00	0.900	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:21	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Nickel	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Potassium	**0.56**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:18	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Sodium	**26.5**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:21	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS
Zinc	**0.01**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:34	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 12:36	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**185**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**185**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**15**		mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**506**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**358**		mg/L	50	50	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**1.3**		mg/L	0.5	0.2	5310 C-2014	10/02/2025 13:24	10/02/2025 13:24	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**9.3**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/27/2025 02:58	09/27/2025 02:58	CDD
Fluoride	**0.26**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/27/2025 02:58	09/27/2025 02:58	CDD
Sulfate	**67.3**		mg/L	1.0	1.0	EPA 300.0 REV 2.1	09/27/2025 02:58	09/27/2025 02:58	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**182**	D	mg/L	20.7	9.95	2340 B-1997	09/26/2025 08:47	09/27/2025 03:21	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-40**
Description: **Mercury Field Blank Well Dup-1**

Sample Collection Date Time: 09/23/2025 08:07
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 11:28	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-41**
Description: **Well Duplicate 2**

Sample Collection Date Time: 09/24/2025 11:58
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Arsenic	**0.0004**	J	mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Barium	**0.014**		mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Boron	**0.90**		mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:34	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Calcium	**256**	D1	mg/L	50.0	25.0	SW846 6010 B	09/26/2025 08:47	09/29/2025 13:50	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Cobalt	**0.004**		mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Iron	**2.20**		mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:34	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 15:13	HJS
Lithium	**0.03**		mg/L	0.02	0.005	SW846-6020 A	09/26/2025 08:47	10/02/2025 10:23	HJS
Magnesium	**91.5**	D1	mg/L	2.00	0.900	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:25	MRWD
Molybdenum	**0.002**	J	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Nickel	**0.005**		mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Potassium	**6.16**		mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:34	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Sodium	**48.4**	D1	mg/L	2.60	1.00	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:25	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS
Zinc	**0.009**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:38	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 12:47	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	**330**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Bicarbonate Alkalinity as CaCO3	**330**		mg/L	4	4	2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	09/30/2025 10:40	09/30/2025 10:40	DJK
Chemical Oxygen Demand	**10**	J	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**1950**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	**1470**		mg/L	100	100	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**0.8**		mg/L	0.5	0.2	5310 C-2014	10/06/2025 18:24	10/06/2025 18:24	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	**58.3**		mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/26/2025 19:47	09/26/2025 19:47	CDD
Fluoride	**0.24**		mg/L	0.20	0.007	EPA 300.0 REV 2.1	09/26/2025 19:47	09/26/2025 19:47	CDD
Sulfate	**662**	D	mg/L	10.0	10.0	EPA 300.0 REV 2.1	09/26/2025 20:08	09/26/2025 20:08	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	**1020**	D	mg/L	133	66.1	2340 B-1997	09/26/2025 08:47	09/29/2025 13:50	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-42**
Description: **Mercury Field Blank Well Dup-2**

Sample Collection Date Time: 09/24/2025 11:58
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 11:45	DER

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-43**
Description: **Field Blank**

Sample Collection Date Time: 09/24/2025 08:15
Sample Received Date Time: 09/25/2025 11:30

Metals by SW846 6000 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Antimony	ND	U	mg/L	0.005	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Arsenic	ND	U	mg/L	0.0010	0.0004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Barium	ND	U	mg/L	0.004	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Beryllium	ND	U	mg/L	0.0020	0.0010	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Boron	ND	U, M2	mg/L	0.10	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:37	MRWD
Cadmium	ND	U	mg/L	0.0010	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Calcium	ND	U	mg/L	0.50	0.25	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:37	MRWD
Chromium	ND	U	mg/L	0.0020	0.0006	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Cobalt	ND	U	mg/L	0.004	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Copper	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Iron	ND	U	mg/L	0.100	0.050	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:37	MRWD
Lead	ND	U	mg/L	0.002	0.0005	SW846-6020 A	09/26/2025 08:47	09/30/2025 15:15	HJS
Lithium	ND	U	mg/L	0.02	0.005	SW846-6020 A	09/26/2025 08:47	10/02/2025 10:25	HJS
Magnesium	ND	U	mg/L	0.200	0.090	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:37	MRWD
Molybdenum	ND	U	mg/L	0.01	0.002	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Nickel	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Potassium	ND	U	mg/L	0.50	0.22	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:37	MRWD
Selenium	ND	U	mg/L	0.003	0.001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Sodium	ND	U	mg/L	0.26	0.10	SW846 6010 B	09/26/2025 08:47	09/27/2025 03:37	MRWD
Thallium	ND	U	mg/L	0.0020	0.0001	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS
Zinc	**0.005**	J	mg/L	0.02	0.004	SW846-6020 A	09/26/2025 08:47	09/29/2025 18:43	HJS

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	**34.0**		ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 12:53	DER

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Alkalinity	ND	U	mg/L	4		2320 B-2011	10/01/2025 10:25	10/01/2025 10:25	DJK
Bicarbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	10/01/2025 10:25	10/01/2025 10:25	DJK
Carbonate Alkalinity as CaCO3	ND	U	mg/L	4		2320 B-2011	10/01/2025 10:25	10/01/2025 10:25	DJK
Total Alkalinity pH Endpoint	**4**		mg/L			2320 B-2011	10/01/2025 10:25	10/01/2025 10:25	DJK
Chemical Oxygen Demand	ND	U	mg/L	13	8	HACH 8000	10/01/2025 10:21	10/01/2025 10:21	AKJ
Specific Conductance (Lab)	**11**		uS/cm @ 25.0 °C	1	1	2510 B-2011	09/26/2025 08:00	09/26/2025 14:40	CMB
Total Dissolved Solids	ND	G1, U	mg/L	50	50	2540 C-2015	09/29/2025 17:18	09/29/2025 17:18	HAG
Total Organic Carbon	**0.3**	J	mg/L	0.5	0.2	5310 C-2014	10/06/2025 18:45	10/06/2025 18:45	HMF

Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 903.1	10/22/2025 16:41	10/22/2025 16:42	RCW

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Subcontracted Analyses

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW
See Attached Subcontract Report	0.00		-			EPA 904.0 Radium Sum Calc	10/22/2025 16:41	10/22/2025 16:42	RCW

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Chloride	ND	U	mg/L	0.5	0.4	EPA 300.0 REV 2.1	09/27/2025 03:42	09/27/2025 03:42	CDD
Fluoride	ND	U	mg/L	0.20		EPA 300.0 REV 2.1	09/27/2025 03:42	09/27/2025 03:42	CDD
Sulfate	ND	U	mg/L	1.0	1.0	EPA 300.0 REV 2.1	09/27/2025 03:42	09/27/2025 03:42	CDD

Manual Calculation

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Hardness Calculation as CaCO3	ND	U	mg/L	2.07	0.995	2340 B-1997	09/26/2025 08:47	09/27/2025 03:37	MRWD

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ANALYTICAL RESULTS

Lab Sample ID: **5092520-44**
Description: **Mercury Field Blank**

Sample Collection Date Time: 09/24/2025 08:15
Sample Received Date Time: 09/25/2025 11:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Mercury	ND	U	ng/L	5.0	1.8	EPA 245.7 REV 2	09/30/2025 07:25	09/30/2025 11:51	DER

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Notes for work order 5092520

- Samples collected by PACE personnel are done so in accordance with procedures set forth in PACE field services SOPs .
- Results contained in this report are only representative of the samples received.
- PACE does not provide interpretation of these results unless otherwise stated .
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Qualifiers

D	Results reported from dilution.
D1	Sample required dilution due to high concentration of target analyte.
D2	Sample required dilution due to matrix interference.
G1	Residue yield was less than the method required 2.5mg.
J	Estimated value.
L1	The associated blank spike recovery was above method acceptance limits.
M1	Matrix spike recovery was high; the method control sample recovery was acceptable.
M2	Matrix spike recovery was low; the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
U	Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).
Y1	Sample RPD exceeded the method control limit.

Standard Qualifiers/Acronyms

MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
>	Greater than
<	Less than

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2752 - EPA 200.2										
Blank (BEI2752-BLK1)										
Prepared: 9/26/2025 8:47, Analyzed: 9/26/2025 23:08										
Boron	ND	0.10	mg/L							U
Calcium	ND	0.50	mg/L							U
Iron	ND	0.100	mg/L							U
Magnesium	ND	0.200	mg/L							U
Potassium	ND	0.50	mg/L							U
Sodium	ND	0.26	mg/L							U
Blank (BEI2752-BLK2)										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 15:31										
Antimony	ND	0.005	mg/L							U
Molybdenum	ND	0.01	mg/L							U
Arsenic	ND	0.0010	mg/L							U
Barium	ND	0.004	mg/L							U
Beryllium	ND	0.0020	mg/L							U
Cadmium	ND	0.0010	mg/L							U
Chromium	ND	0.0020	mg/L							U
Cobalt	ND	0.004	mg/L							U
Copper	0.002	0.003	mg/L							J
Lead	ND	0.002	mg/L							U
Lithium	ND	0.02	mg/L							U
Nickel	ND	0.003	mg/L							U
Selenium	ND	0.003	mg/L							U
Thallium	ND	0.0020	mg/L							U
Zinc	0.006	0.02	mg/L							J
Blank (BEI2752-BLK3)										
Prepared: 9/26/2025 8:47, Analyzed: 9/30/2025 13:42										
Molybdenum	ND	0.01	mg/L							U
Arsenic	ND	0.0010	mg/L							U
Beryllium	ND	0.0020	mg/L							U
Cadmium	ND	0.0010	mg/L							U
Cobalt	ND	0.004	mg/L							U
Lead	ND	0.002	mg/L							U
Lithium	ND	0.02	mg/L							U
Nickel	ND	0.003	mg/L							U
Zinc	0.005	0.02	mg/L							J

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2752 - EPA 200.2										
LCS (BEI2752-BS1)										
Prepared: 9/26/2025 8:47, Analyzed: 9/26/2025 23:11										
Boron	0.12	0.10	mg/L	0.125		98.8	85-115			
Calcium	6.31	0.50	mg/L	6.25		101	85-115			
Iron	6.10	0.100	mg/L	6.25		97.7	85-115			
Magnesium	6.14	0.200	mg/L	6.25		98.3	85-115			
Potassium	6.16	0.50	mg/L	6.25		98.6	85-115			
Sodium	5.94	0.26	mg/L	6.25		95.1	85-115			
LCS (BEI2752-BS2)										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 15:33										
Antimony	0.062	0.005	mg/L	0.0625		99.0	85-115			
Molybdenum	0.08	0.01	mg/L	0.0625		123	85-115			L1
Arsenic	0.0773	0.0010	mg/L	0.0625		124	85-115			L1
Barium	0.062	0.004	mg/L	0.0625		98.7	85-115			
Beryllium	0.0554	0.0020	mg/L	0.0625		88.6	85-115			
Cadmium	0.0603	0.0010	mg/L	0.0625		96.5	85-115			
Chromium	0.0772	0.0020	mg/L	0.0625		124	85-115			L1
Cobalt	0.074	0.004	mg/L	0.0625		118	85-115			L1
Copper	0.076	0.003	mg/L	0.0625		122	85-115			L1
Lead	0.057	0.002	mg/L	0.0625		90.9	85-115			
Lithium	0.05	0.02	mg/L	0.0625		86.4	85-115			
Nickel	0.074	0.003	mg/L	0.0625		119	85-115			L1
Selenium	0.061	0.003	mg/L	0.0625		97.6	85-115			
Thallium	0.0592	0.0020	mg/L	0.0625		94.8	85-115			
Zinc	0.08	0.02	mg/L	0.0625		129	85-115			L1
LCS (BEI2752-BS3)										
Prepared: 9/26/2025 8:47, Analyzed: 9/30/2025 13:45										
Molybdenum	0.06	0.01	mg/L	0.0625		101	85-115			
Arsenic	0.0641	0.0010	mg/L	0.0625		103	85-115			
Beryllium	0.0592	0.0020	mg/L	0.0625		94.8	85-115			
Cadmium	0.0614	0.0010	mg/L	0.0625		98.2	85-115			
Cobalt	0.060	0.004	mg/L	0.0625		96.6	85-115			
Lead	0.058	0.002	mg/L	0.0625		92.5	85-115			
Lithium	0.06	0.02	mg/L	0.0625		95.3	85-115			
Nickel	0.061	0.003	mg/L	0.0625		98.1	85-115			
Zinc	0.07	0.02	mg/L	0.0625		108	85-115			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2752 - EPA 200.2										
Matrix Spike (BEI2752-MS1) **Source: 5092520-01**										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 1:40										
Boron	ND	1.00	mg/L	0.125	ND		80-120			D2, M2, U
Calcium	564	5.00	mg/L	6.25	563	23.3	80-120			D2, M3
Iron	50.8	1.00	mg/L	6.25	46.6	67.6	80-120			D2, M2
Magnesium	175	2.00	mg/L	6.25	196	NR	80-120			D2, M3
Potassium	13.3	5.00	mg/L	6.25	7.44	94.6	80-120			D2
Sodium	108	2.60	mg/L	6.25	105	58.5	80-120			D2, M3
Matrix Spike (BEI2752-MS2) **Source: 5092520-11**										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 1:46										
Boron	1.37	1.00	mg/L	0.125	1.30	57.1	80-120			D2, M2
Calcium	670	5.00	mg/L	6.25	704	NR	80-120			D2, M3
Iron	14.8	1.00	mg/L	6.25	8.56	100	80-120			D2
Magnesium	277	2.00	mg/L	6.25	328	NR	80-120			M3, D2
Potassium	16.0	5.00	mg/L	6.25	9.78	99.6	80-120			D2
Sodium	135	2.60	mg/L	6.25	138	NR	80-120			D2, M3
Matrix Spike (BEI2752-MS3) **Source: 5092520-01**										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 17:03										
Antimony	0.063	0.050	mg/L	0.0625	ND	100	80-120			D2
Molybdenum	0.06	0.10	mg/L	0.0625	ND	102	80-120			D2, J
Arsenic	0.0635	0.0100	mg/L	0.0625	ND	102	80-120			D2
Barium	0.068	0.040	mg/L	0.0625	ND	108	80-120			D2
Beryllium	0.0521	0.0200	mg/L	0.0625	ND	83.3	80-120			D2
Cadmium	0.0597	0.0100	mg/L	0.0625	ND	95.5	80-120			D2
Chromium	0.0591	0.0200	mg/L	0.0625	ND	94.6	80-120			D2
Cobalt	0.255	0.040	mg/L	0.0625	0.206	79.5	80-120			D2, M2
Copper	0.060	0.030	mg/L	0.0625	ND	96.5	80-120			D2
Lead	0.054	0.020	mg/L	0.0625	ND	86.5	80-120			D2
Lithium	0.16	0.20	mg/L	0.0625	0.10	90.4	80-120			D2, M2, J
Nickel	0.443	0.030	mg/L	0.0625	0.392	81.5	80-120			D2
Selenium	0.059	0.030	mg/L	0.0625	ND	93.8	80-120			D2
Thallium	0.0589	0.0200	mg/L	0.0625	ND	94.3	80-120			D2
Zinc	0.65	0.20	mg/L	0.0625	0.06	943	80-120			D2

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2752 - EPA 200.2										
Matrix Spike (BEI2752-MS4) **Source: 5092520-11**										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 17:08										
Antimony	0.063	0.050	mg/L	0.0625	ND	100	80-120			D2
Molybdenum	0.06	0.10	mg/L	0.0625	ND	103	80-120			D2, J
Arsenic	0.0641	0.0100	mg/L	0.0625	ND	103	80-120			D2
Barium	0.073	0.040	mg/L	0.0625	0.012	97.7	80-120			D2
Beryllium	0.0524	0.0200	mg/L	0.0625	ND	83.8	80-120			D2
Cadmium	0.0591	0.0100	mg/L	0.0625	ND	94.6	80-120			D2
Chromium	0.0589	0.0200	mg/L	0.0625	ND	94.3	80-120			D2
Cobalt	0.059	0.040	mg/L	0.0625	ND	94.1	80-120			D2
Copper	0.058	0.030	mg/L	0.0625	ND	92.7	80-120			D2
Lead	0.054	0.020	mg/L	0.0625	ND	87.0	80-120			D2
Lithium	0.10	0.20	mg/L	0.0625	0.05	161	80-120			D2, M1, J
Nickel	0.057	0.030	mg/L	0.0625	ND	91.4	80-120			D2
Selenium	0.061	0.030	mg/L	0.0625	ND	97.9	80-120			D2
Thallium	0.0580	0.0200	mg/L	0.0625	ND	92.8	80-120			D2
Zinc	0.07	0.20	mg/L	0.0625	ND	113	80-120			D2, J
Matrix Spike Dup (BEI2752-MSD1) **Source: 5092520-01**										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 1:43										
Boron	ND	1.00	mg/L	0.125	ND		80-120		20	D2, M2, U
Calcium	574	5.00	mg/L	6.25	563	185	80-120	1.78	20	D2, M3
Iron	52.1	1.00	mg/L	6.25	46.6	87.3	80-120	2.39	20	D2
Magnesium	180	2.00	mg/L	6.25	196	NR	80-120	2.65	20	D2, M3
Potassium	13.8	5.00	mg/L	6.25	7.44	101	80-120	3.08	20	D2
Sodium	111	2.60	mg/L	6.25	105	108	80-120	2.81	20	D2
Matrix Spike Dup (BEI2752-MSD2) **Source: 5092520-11**										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 1:49										
Boron	1.38	1.00	mg/L	0.125	1.30	65.9	80-120	0.798	20	D2, M2
Calcium	675	5.00	mg/L	6.25	704	NR	80-120	0.728	20	D2, M3
Iron	14.8	1.00	mg/L	6.25	8.56	100	80-120	0.0560	20	D2
Magnesium	278	2.00	mg/L	6.25	328	NR	80-120	0.633	20	D2, M3
Potassium	15.7	5.00	mg/L	6.25	9.78	95.2	80-120	1.73	20	D2
Sodium	136	2.60	mg/L	6.25	138	NR	80-120	0.306	20	D2, M3

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2752 - EPA 200.2										
Matrix Spike Dup (BEI2752-MSD3) **Source: 5092520-01**										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 17:06										
Molybdenum	0.07	0.10	mg/L	0.0625	ND	104	80-120	2.51	20	D2, J
Antimony	0.062	0.050	mg/L	0.0625	ND	98.8	80-120	1.38	20	D2
Arsenic	0.0653	0.0100	mg/L	0.0625	ND	104	80-120	2.79	20	D2
Barium	0.069	0.040	mg/L	0.0625	ND	110	80-120	1.96	20	D2
Beryllium	0.0537	0.0200	mg/L	0.0625	ND	85.9	80-120	3.03	20	D2
Cadmium	0.0598	0.0100	mg/L	0.0625	ND	95.6	80-120	0.132	20	D2
Chromium	0.0596	0.0200	mg/L	0.0625	ND	95.3	80-120	0.826	20	D2
Cobalt	0.261	0.040	mg/L	0.0625	0.206	88.4	80-120	2.15	20	D2
Copper	0.060	0.030	mg/L	0.0625	ND	95.5	80-120	1.03	20	D2
Lead	0.055	0.020	mg/L	0.0625	ND	87.9	80-120	1.61	20	D2
Lithium	0.16	0.20	mg/L	0.0625	0.10	98.1	80-120	2.98	20	D2, J
Nickel	0.452	0.030	mg/L	0.0625	0.392	95.8	80-120	1.99	20	D2
Selenium	0.059	0.030	mg/L	0.0625	ND	93.7	80-120	0.0889	20	D2
Thallium	0.0584	0.0200	mg/L	0.0625	ND	93.4	80-120	0.934	20	D2
Zinc	0.67	0.20	mg/L	0.0625	0.06	966	80-120	2.16	20	D2, M1
Matrix Spike Dup (BEI2752-MSD4) **Source: 5092520-11**										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 17:10										
Molybdenum	0.06	0.10	mg/L	0.0625	ND	103	80-120	0.0821	20	D2, J
Antimony	0.061	0.050	mg/L	0.0625	ND	98.0	80-120	2.13	20	D2
Arsenic	0.0652	0.0100	mg/L	0.0625	ND	104	80-120	1.73	20	D2
Barium	0.071	0.040	mg/L	0.0625	0.012	95.5	80-120	1.91	20	D2
Beryllium	0.0517	0.0200	mg/L	0.0625	ND	82.7	80-120	1.36	20	D2
Cadmium	0.0579	0.0100	mg/L	0.0625	ND	92.6	80-120	2.17	20	D2
Chromium	0.0598	0.0200	mg/L	0.0625	ND	95.7	80-120	1.49	20	D2
Cobalt	0.060	0.040	mg/L	0.0625	ND	95.8	80-120	1.82	20	D2
Copper	0.058	0.030	mg/L	0.0625	ND	92.3	80-120	0.410	20	D2
Lead	0.052	0.020	mg/L	0.0625	ND	83.5	80-120	4.11	20	D2
Lithium	0.10	0.20	mg/L	0.0625	0.05	159	80-120	0.921	20	D2, M1, J
Nickel	0.057	0.030	mg/L	0.0625	ND	92.0	80-120	0.617	20	D2
Selenium	0.059	0.030	mg/L	0.0625	ND	93.9	80-120	4.19	20	D2
Thallium	0.0561	0.0200	mg/L	0.0625	ND	89.8	80-120	3.23	20	D2
Zinc	0.07	0.20	mg/L	0.0625	ND	109	80-120	3.39	20	D2, J

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2752 - EPA 200.2										
Post Spike (BEI2752-PS1)	**Source: 5092520-01**									
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 1:53										
Boron	356		ug/L	125	202	123	75-125			D2
Calcium	580000		ug/L	6250	563000	270	75-125			D2, M3
Iron	52500		ug/L	6250	46600	93.9	75-125			D2
Magnesium	182000		ug/L	6250	196000	NR	75-125			D2, M3
Potassium	14100		ug/L	6250	7440	106	75-125			D2
Sodium	112000		ug/L	6250	105000	124	75-125			D2
Post Spike (BEI2752-PS2)	**Source: 5092520-01**									
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 17:13										
Molybdenum	65.3		ug/L	62.5	3.87	98.3	75-125			D2
Antimony	61.9		ug/L	62.5	0.070	98.9	75-125			D2
Arsenic	66.0		ug/L	62.5	3.09	101	75-125			D2
Barium	70.7		ug/L	62.5	8.18	100	75-125			D2
Beryllium	54.7		ug/L	62.5	0.128	87.3	75-125			D2
Cadmium	61.7		ug/L	62.5	0.175	98.4	75-125			D2
Chromium	61.2		ug/L	62.5	0.671	96.9	75-125			D2
Cobalt	262		ug/L	62.5	206	90.9	75-125			D2
Copper	59.8		ug/L	62.5	0.586	94.8	75-125			D2
Lead	55.6		ug/L	62.5	0.022	89.0	75-115			D2
Lithium	162		ug/L	62.5	103	93.9	75-125			D2
Nickel	453		ug/L	62.5	392	96.6	75-125			D2
Selenium	61.2		ug/L	62.5	0.369	97.4	75-125			D2
Thallium	59.5		ug/L	62.5	0.119	95.0	75-125			D2
Zinc	665		ug/L	62.5	62.2	965	75-125			D2
Batch BEI2755 - EPA 200.2										
Blank (BEI2755-BLK1)										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 1:59										
Boron	ND	0.10	mg/L							U
Calcium	ND	0.50	mg/L							U
Iron	ND	0.100	mg/L							U
Magnesium	ND	0.200	mg/L							U
Potassium	ND	0.50	mg/L							U
Sodium	ND	0.26	mg/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2755 - EPA 200.2										
Blank (BEI2755-BLK2)										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 17:29										
Antimony	ND	0.005	mg/L							U
Molybdenum	ND	0.01	mg/L							U
Arsenic	ND	0.0010	mg/L							U
Barium	ND	0.004	mg/L							U
Beryllium	ND	0.0020	mg/L							U
Cadmium	ND	0.0010	mg/L							U
Chromium	ND	0.0020	mg/L							U
Cobalt	ND	0.004	mg/L							U
Copper	0.001	0.003	mg/L							J
Lead	ND	0.002	mg/L							U
Lithium	ND	0.02	mg/L							U
Nickel	ND	0.003	mg/L							U
Selenium	ND	0.003	mg/L							U
Thallium	ND	0.0020	mg/L							U
Zinc	ND	0.02	mg/L							U
LCS (BEI2755-BS1)										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 2:02										
Boron	0.12	0.10	mg/L	0.125		95.0	85-115			
Calcium	6.44	0.50	mg/L	6.25		103	85-115			
Iron	5.90	0.100	mg/L	6.25		94.4	85-115			
Magnesium	5.96	0.200	mg/L	6.25		95.4	85-115			
Potassium	6.22	0.50	mg/L	6.25		99.5	85-115			
Sodium	5.98	0.26	mg/L	6.25		95.7	85-115			
LCS (BEI2755-BS2)										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 17:31										
Molybdenum	0.06	0.01	mg/L	0.0625		95.0	85-115			
Antimony	0.059	0.005	mg/L	0.0625		94.6	85-115			
Arsenic	0.0609	0.0010	mg/L	0.0625		97.4	85-115			
Barium	0.060	0.004	mg/L	0.0625		96.6	85-115			
Beryllium	0.0551	0.0020	mg/L	0.0625		88.2	85-115			
Cadmium	0.0589	0.0010	mg/L	0.0625		94.2	85-115			
Chromium	0.0591	0.0020	mg/L	0.0625		94.5	85-115			
Cobalt	0.057	0.004	mg/L	0.0625		91.6	85-115			
Copper	0.059	0.003	mg/L	0.0625		94.9	85-115			
Lead	0.054	0.002	mg/L	0.0625		86.0	85-115			
Lithium	0.05	0.02	mg/L	0.0625		85.0	85-115			
Nickel	0.058	0.003	mg/L	0.0625		92.8	85-115			
Selenium	0.059	0.003	mg/L	0.0625		94.4	85-115			
Thallium	0.0561	0.0020	mg/L	0.0625		89.8	85-115			
Zinc	0.07	0.02	mg/L	0.0625		105	85-115			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2755 - EPA 200.2										
Matrix Spike (BEI2755-MS1) **Source: 5092520-23**										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 3:44										
Boron	ND	1.00	mg/L	0.125	ND		80-120			D2, M2, U
Calcium	99.2	5.00	mg/L	6.25	90.5	138	80-120			D2, M1
Iron	8.38	1.00	mg/L	6.25	2.36	96.4	80-120			D2
Magnesium	47.0	2.00	mg/L	6.25	40.3	107	80-120			D2
Potassium	7.05	5.00	mg/L	6.25	ND	113	80-120			D2
Sodium	139	2.60	mg/L	6.25	134	82.9	80-120			D2
Matrix Spike (BEI2755-MS2) **Source: 5092520-43**										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 3:50										
Boron	ND	1.00	mg/L	0.125	ND		80-120			M2, D2, U
Calcium	6.53	5.00	mg/L	6.25	ND	105	80-120			D2
Iron	6.11	1.00	mg/L	6.25	ND	97.8	80-120			D2
Magnesium	6.30	2.00	mg/L	6.25	ND	101	80-120			D2
Potassium	6.20	5.00	mg/L	6.25	ND	99.2	80-120			D2
Sodium	6.23	2.60	mg/L	6.25	ND	99.6	80-120			D2
Matrix Spike (BEI2755-MS3) **Source: 5092520-23**										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 18:50										
Antimony	0.059	0.050	mg/L	0.0625	ND	94.7	80-120			D2
Molybdenum	0.06	0.10	mg/L	0.0625	ND	93.5	80-120			D2, J
Arsenic	0.0624	0.0100	mg/L	0.0625	ND	99.8	80-120			D2
Barium	0.100	0.040	mg/L	0.0625	0.040	95.0	80-120			D2
Beryllium	0.0518	0.0200	mg/L	0.0625	ND	82.8	80-120			D2
Cadmium	0.0561	0.0100	mg/L	0.0625	ND	89.8	80-120			D2
Chromium	0.0573	0.0200	mg/L	0.0625	ND	91.7	80-120			D2
Cobalt	0.057	0.040	mg/L	0.0625	ND	91.7	80-120			D2
Copper	0.057	0.030	mg/L	0.0625	ND	91.9	80-120			D2
Lead	0.052	0.020	mg/L	0.0625	ND	83.3	80-120			D2
Lithium	0.05	0.20	mg/L	0.0625	ND	86.9	80-120			D2, J
Nickel	0.054	0.030	mg/L	0.0625	ND	86.0	80-120			D2
Selenium	0.056	0.030	mg/L	0.0625	ND	90.0	80-120			D2
Thallium	0.0563	0.0200	mg/L	0.0625	ND	90.1	80-120			D2
Zinc	0.06	0.20	mg/L	0.0625	ND	98.2	80-120			D2, J

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Metals by SW846 6000 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2755 - EPA 200.2										
Matrix Spike (BEI2755-MS4) **Source: 5092520-43**										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 19:06										
Molybdenum	0.06	0.10	mg/L	0.0625	ND	95.5	80-120			D2, J
Antimony	0.061	0.050	mg/L	0.0625	ND	97.4	80-120			D2
Arsenic	0.0613	0.0100	mg/L	0.0625	ND	98.1	80-120			D2
Barium	0.060	0.040	mg/L	0.0625	ND	96.2	80-120			D2
Beryllium	0.0529	0.0200	mg/L	0.0625	ND	84.6	80-120			D2
Cadmium	0.0584	0.0100	mg/L	0.0625	ND	93.5	80-120			D2
Chromium	0.0600	0.0200	mg/L	0.0625	ND	95.9	80-120			D2
Cobalt	0.059	0.040	mg/L	0.0625	ND	93.6	80-120			D2
Copper	0.060	0.030	mg/L	0.0625	ND	96.2	80-120			D2
Lead	0.055	0.020	mg/L	0.0625	ND	87.2	80-120			D2
Lithium	0.05	0.20	mg/L	0.0625	ND	85.2	80-120			D2, J
Nickel	0.056	0.030	mg/L	0.0625	ND	89.7	80-120			D2
Selenium	0.058	0.030	mg/L	0.0625	ND	92.4	80-120			D2
Thallium	0.0577	0.0200	mg/L	0.0625	ND	92.3	80-120			D2
Zinc	0.07	0.20	mg/L	0.0625	ND	111	80-120			D2, J
Matrix Spike Dup (BEI2755-MSD1) **Source: 5092520-23**										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 3:47										
Boron	ND	1.00	mg/L	0.125	ND		80-120		20	D2, M2, U
Calcium	97.7	5.00	mg/L	6.25	90.5	114	80-120	1.51	20	D2
Iron	8.47	1.00	mg/L	6.25	2.36	97.9	80-120	1.12	20	D2
Magnesium	46.4	2.00	mg/L	6.25	40.3	97.8	80-120	1.22	20	D2
Potassium	7.21	5.00	mg/L	6.25	ND	115	80-120	2.24	20	D2
Sodium	137	2.60	mg/L	6.25	134	46.9	80-120	1.63	20	M3, D2
Matrix Spike Dup (BEI2755-MSD2) **Source: 5092520-43**										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 3:53										
Boron	ND	1.00	mg/L	0.125	ND		80-120		20	D2, M2, U
Calcium	6.26	5.00	mg/L	6.25	ND	100	80-120	4.29	20	D2
Iron	5.87	1.00	mg/L	6.25	ND	93.9	80-120	4.07	20	D2
Magnesium	6.06	2.00	mg/L	6.25	ND	96.9	80-120	3.98	20	D2
Potassium	6.10	5.00	mg/L	6.25	ND	97.5	80-120	1.70	20	D2
Sodium	5.98	2.60	mg/L	6.25	ND	95.7	80-120	3.99	20	D2

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2755 - EPA 200.2										
Matrix Spike Dup (BEI2755-MSD3) **Source: 5092520-23**										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 18:52										
Molybdenum	0.06	0.10	mg/L	0.0625	ND	97.9	80-120	4.55	20	D2, J
Antimony	0.061	0.050	mg/L	0.0625	ND	97.4	80-120	2.83	20	D2
Arsenic	0.0652	0.0100	mg/L	0.0625	ND	104	80-120	4.36	20	D2
Barium	0.099	0.040	mg/L	0.0625	0.040	94.6	80-120	0.230	20	D2
Beryllium	0.0552	0.0200	mg/L	0.0625	ND	88.3	80-120	6.41	20	D2
Cadmium	0.0579	0.0100	mg/L	0.0625	ND	92.7	80-120	3.17	20	D2
Chromium	0.0593	0.0200	mg/L	0.0625	ND	94.9	80-120	3.41	20	D2
Cobalt	0.058	0.040	mg/L	0.0625	ND	93.3	80-120	1.73	20	D2
Copper	0.058	0.030	mg/L	0.0625	ND	92.9	80-120	1.06	20	D2
Lead	0.053	0.020	mg/L	0.0625	ND	84.6	80-120	1.60	20	D2
Lithium	0.06	0.20	mg/L	0.0625	ND	88.2	80-120	1.41	20	D2, J
Nickel	0.056	0.030	mg/L	0.0625	ND	90.0	80-120	4.47	20	D2
Selenium	0.058	0.030	mg/L	0.0625	ND	92.3	80-120	2.55	20	D2
Thallium	0.0562	0.0200	mg/L	0.0625	ND	90.0	80-120	0.177	20	D2
Zinc	0.06	0.20	mg/L	0.0625	ND	104	80-120	5.53	20	D2, J
Matrix Spike Dup (BEI2755-MSD4) **Source: 5092520-43**										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 19:08										
Antimony	0.058	0.050	mg/L	0.0625	ND	92.1	80-120	5.58	20	D2
Molybdenum	0.06	0.10	mg/L	0.0625	ND	91.7	80-120	4.12	20	D2, J
Arsenic	0.0587	0.0100	mg/L	0.0625	ND	93.9	80-120	4.38	20	D2
Barium	0.057	0.040	mg/L	0.0625	ND	91.6	80-120	4.79	20	D2
Beryllium	0.0523	0.0200	mg/L	0.0625	ND	83.7	80-120	1.04	20	D2
Cadmium	0.0559	0.0100	mg/L	0.0625	ND	89.4	80-120	4.43	20	D2
Chromium	0.0578	0.0200	mg/L	0.0625	ND	92.4	80-120	3.75	20	D2
Cobalt	0.056	0.040	mg/L	0.0625	ND	90.0	80-120	4.01	20	D2
Copper	0.058	0.030	mg/L	0.0625	ND	92.1	80-120	4.33	20	D2
Lead	0.052	0.020	mg/L	0.0625	ND	82.5	80-120	5.61	20	D2
Lithium	0.05	0.20	mg/L	0.0625	ND	83.3	80-120	2.32	20	D2, J
Nickel	0.054	0.030	mg/L	0.0625	ND	85.9	80-120	4.41	20	D2
Selenium	0.056	0.030	mg/L	0.0625	ND	89.1	80-120	3.56	20	D2
Thallium	0.0547	0.0200	mg/L	0.0625	ND	87.4	80-120	5.45	20	D2
Zinc	0.06	0.20	mg/L	0.0625	ND	101	80-120	9.56	20	D2, J

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2755 - EPA 200.2										
Post Spike (BEI2755-PS1) **Source: 5092520-23**										
Prepared: 9/26/2025 8:47, Analyzed: 9/27/2025 3:56										
Boron	161		ug/L	125	28.5	106	75-125			D2
Calcium	96800		ug/L	6250	90500	99.8	75-125			D2
Iron	8780		ug/L	6250	2360	103	75-125			D2
Magnesium	48000		ug/L	6250	40300	123	75-125			D2
Potassium	7210		ug/L	6250	947	100	75-125			D2
Sodium	136000		ug/L	6250	134000	28.5	75-125			D2, M3
Post Spike (BEI2755-PS2) **Source: 5092520-23**										
Prepared: 9/26/2025 8:47, Analyzed: 9/29/2025 19:11										
Molybdenum	61.3		ug/L	62.5	0.79	96.9	75-125			D2
Antimony	59.2		ug/L	62.5	0.201	94.4	75-125			D2
Arsenic	63.3		ug/L	62.5	2.90	96.6	75-125			D2
Barium	98.9		ug/L	62.5	40.1	94.0	75-125			D2
Beryllium	53.6		ug/L	62.5	0.0182	85.7	75-125			D2
Cadmium	58.1		ug/L	62.5	0.0214	92.9	75-125			D2
Chromium	59.0		ug/L	62.5	0.349	93.9	75-125			D2
Cobalt	57.8		ug/L	62.5	1.34	90.4	75-125			D2
Copper	59.5		ug/L	62.5	0.894	93.8	75-125			D2
Lead	53.0		ug/L	62.5	0.084	84.6	75-115			D2
Lithium	54.5		ug/L	62.5	1.87	84.2	75-125			D2
Nickel	57.5		ug/L	62.5	0.774	90.8	75-125			D2
Selenium	57.2		ug/L	62.5	0.141	91.3	75-125			D2
Thallium	55.9		ug/L	62.5	0.0153	89.3	75-125			D2
Zinc	63.5		ug/L	62.5	8.39	88.2	75-125			D2
Batch BEJ0408 - EPA 200.2										
Blank (BEJ0408-BLK1)										
Prepared: 10/4/2025 8:57, Analyzed: 10/6/2025 15:02										
Lithium	ND	0.02	mg/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEJ0408 - EPA 200.2										
LCS (BEJ0408-BS1)										
Prepared: 10/4/2025 8:57, Analyzed: 10/6/2025 15:04										
Lithium	0.06	0.02	mg/L	0.0625		92.4	85-115			
Matrix Spike (BEJ0408-MS1) **Source: 5092520-03RE1**										
Prepared: 10/4/2025 8:57, Analyzed: 10/6/2025 16:09										
Lithium	0.06	0.02	mg/L	0.0625	ND	89.0	80-120			
Matrix Spike (BEJ0408-MS2) **Source: 5092520-11RE1**										
Prepared: 10/4/2025 8:57, Analyzed: 10/6/2025 16:14										
Lithium	0.10	0.02	mg/L	0.0625	0.05	85.0	80-120			
Matrix Spike Dup (BEJ0408-MSD1) **Source: 5092520-03RE1**										
Prepared: 10/4/2025 8:57, Analyzed: 10/6/2025 16:11										
Lithium	0.05	0.02	mg/L	0.0625	ND	87.7	80-120	1.50	20	
Matrix Spike Dup (BEJ0408-MSD2) **Source: 5092520-11RE1**										
Prepared: 10/4/2025 8:57, Analyzed: 10/6/2025 16:16										
Lithium	0.10	0.02	mg/L	0.0625	0.05	82.8	80-120	1.36	20	
Post Spike (BEJ0408-PS1) **Source: 5092520-03RE1**										
Prepared: 10/4/2025 8:57, Analyzed: 10/6/2025 16:18										
Lithium	57.0		ug/L	62.5	1.31	89.1	75-125			

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Metals by EPA 200 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2817 - Default Prep Metals										
Blank (BEI2817-BLK1)										
Prepared: 9/26/2025 10:59, Analyzed: 9/26/2025 14:54										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEI2817-BLK2)										
Prepared: 9/26/2025 10:59, Analyzed: 9/26/2025 14:59										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEI2817-BLK3)										
Prepared: 9/26/2025 10:59, Analyzed: 9/26/2025 15:05										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
LCS (BEI2817-BS1)										
Prepared: 9/26/2025 10:59, Analyzed: 9/26/2025 15:11										
Mercury	44.4	5.0	ng/L	50.0		88.8	76-113			
Mercury	44.4	5.0	ng/L	50.0		88.8	76-113			
Matrix Spike (BEI2817-MS1) **Source: 5092520-05**										
Prepared: 9/26/2025 10:59, Analyzed: 9/26/2025 16:35										
Mercury	29.2	5.0	ng/L	50.0	ND	58.4	63-111			M2
Mercury	29.2	5.0	ng/L	50.0	ND	58.4	63-111			M2
Matrix Spike Dup (BEI2817-MSD1) **Source: 5092520-05**										
Prepared: 9/26/2025 10:59, Analyzed: 9/26/2025 16:41										
Mercury	29.1	5.0	ng/L	50.0	ND	58.2	63-111	0.343	18	M2
Mercury	29.1	5.0	ng/L	50.0	ND	58.2	63-111	0.343	18	M2
Batch BEI2894 - Default Prep Metals										
Blank (BEI2894-BLK1)										
Prepared: 9/27/2025 8:37, Analyzed: 9/27/2025 10:50										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2894 - Default Prep Metals										
Blank (BEI2894-BLK2)										
Prepared: 9/27/2025 8:37, Analyzed: 9/27/2025 10:56										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEI2894-BLK3)										
Prepared: 9/27/2025 8:37, Analyzed: 9/27/2025 11:01										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
LCS (BEI2894-BS1)										
Prepared: 9/27/2025 8:37, Analyzed: 9/27/2025 11:07										
Mercury	56.4	5.0	ng/L	50.0		113	76-113			
Mercury	56.4	5.0	ng/L	50.0		113	76-113			
Matrix Spike (BEI2894-MS1) **Source: 5092520-11**										
Prepared: 9/27/2025 8:37, Analyzed: 9/27/2025 13:46										
Mercury	32.8	5.0	ng/L	50.0	ND	65.6	63-111			
Mercury	32.8	5.0	ng/L	50.0	ND	65.6	63-111			
Matrix Spike (BEI2894-MS2) **Source: 5092520-29**										
Prepared: 9/27/2025 8:37, Analyzed: 9/27/2025 13:57										
Mercury	55.5	5.0	ng/L	50.0	ND	111	63-111			
Mercury	55.5	5.0	ng/L	50.0	ND	111	63-111			
Matrix Spike Dup (BEI2894-MSD1) **Source: 5092520-11**										
Prepared: 9/27/2025 8:37, Analyzed: 9/27/2025 13:52										
Mercury	34.1	5.0	ng/L	50.0	ND	68.2	63-111	3.89	18	
Mercury	34.1	5.0	ng/L	50.0	ND	68.2	63-111	3.89	18	
Matrix Spike Dup (BEI2894-MSD2) **Source: 5092520-29**										
Prepared: 9/27/2025 8:37, Analyzed: 9/27/2025 14:03										
Mercury	51.1	5.0	ng/L	50.0	ND	102	63-111	8.26	18	
Mercury	51.1	5.0	ng/L	50.0	ND	102	63-111	8.26	18	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI3022 - Default Prep Metals										
Blank (BEI3022-BLK1)										
Prepared: 9/30/2025 7:25, Analyzed: 9/30/2025 10:38										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEI3022-BLK2)										
Prepared: 9/30/2025 7:25, Analyzed: 9/30/2025 10:43										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
Blank (BEI3022-BLK3)										
Prepared: 9/30/2025 7:25, Analyzed: 9/30/2025 10:49										
Mercury	ND	5.0	ng/L							U
Mercury	ND	5.0	ng/L							U
LCS (BEI3022-BS1)										
Prepared: 9/30/2025 7:25, Analyzed: 9/30/2025 10:55										
Mercury	51.3	5.0	ng/L	50.0		103	76-113			
Mercury	51.3	5.0	ng/L	50.0		103	76-113			
Matrix Spike (BEI3022-MS1) **Source: 5092520-31**										
Prepared: 9/30/2025 7:25, Analyzed: 9/30/2025 13:21										
Mercury	27.3	5.0	ng/L	50.0	ND	54.6	63-111			M2
Mercury	27.3	5.0	ng/L	50.0	ND	54.6	63-111			M2
Matrix Spike (BEI3022-MS2) **Source: 5092520-43**										
Prepared: 9/30/2025 7:25, Analyzed: 9/30/2025 13:33										
Mercury	88.1	5.0	ng/L	50.0	34.0	108	63-111			
Mercury	88.1	5.0	ng/L	50.0	34.0	108	63-111			
Matrix Spike Dup (BEI3022-MSD1) **Source: 5092520-31**										
Prepared: 9/30/2025 7:25, Analyzed: 9/30/2025 13:27										
Mercury	25.5	5.0	ng/L	50.0	ND	51.0	63-111	6.82	18	M2
Mercury	25.5	5.0	ng/L	50.0	ND	51.0	63-111	6.82	18	M2
Matrix Spike Dup (BEI3022-MSD2) **Source: 5092520-43**										
Prepared: 9/30/2025 7:25, Analyzed: 9/30/2025 13:38										
Mercury	87.2	5.0	ng/L	50.0	34.0	106	63-111	1.03	18	
Mercury	87.2	5.0	ng/L	50.0	34.0	106	63-111	1.03	18	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2556 - Default Prep Micro										
Blank (BEI2556-BLK1)										
Prepared: 9/26/2025 10:52, Analyzed: 9/26/2025 14:40										
Specific Conductance (Lab)	ND	1	uS/cm @ 25.0 °C							U
LCS (BEI2556-BS1)										
Prepared: 9/26/2025 10:52, Analyzed: 9/26/2025 14:40										
Specific Conductance (Lab)	1430		uS/cm @ 25.0 °C	1410		102	90-110			
Duplicate (BEI2556-DUP1) **Source: 5092520-31**										
Prepared: 9/26/2025 10:52, Analyzed: 9/26/2025 14:40										
Specific Conductance (Lab)	ND	1	uS/cm @ 25.0 °C		3880				0.938	U
Duplicate (BEI2556-DUP2) **Source: 5095056-02**										
Prepared: 9/26/2025 10:52, Analyzed: 9/26/2025 14:40										
Specific Conductance (Lab)	9	1	uS/cm @ 25.0 °C		9			0.107	0.938	
Batch BEI2759 - Default Prep Micro										
Blank (BEI2759-BLK1)										
Prepared: 9/26/2025 10:54, Analyzed: 9/26/2025 14:40										
Specific Conductance (Lab)	ND	1	uS/cm @ 25.0 °C							U
LCS (BEI2759-BS1)										
Prepared: 9/26/2025 10:54, Analyzed: 9/26/2025 14:40										
Specific Conductance (Lab)	1420		uS/cm @ 25.0 °C	1410		101	90-110			
Duplicate (BEI2759-DUP1) **Source: 5092520-05**										
Prepared: 9/26/2025 10:54, Analyzed: 9/26/2025 14:40										
Specific Conductance (Lab)	2000	1	uS/cm @ 25.0 °C		2000			0.0501	0.938	
Duplicate (BEI2759-DUP2) **Source: 5092520-11**										
Prepared: 9/26/2025 10:54, Analyzed: 9/26/2025 14:40										
Specific Conductance (Lab)	5110	1	uS/cm @ 25.0 °C		5120			0.196	0.938	
Batch BEI2934 - Default Prep Wet Chem										
Blank (BEI2934-BLK1)										
Prepared: 9/29/2025 16:52, Analyzed: 9/29/2025 16:52										
Total Dissolved Solids	ND	25	mg/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2934 - Default Prep Wet Chem										
LCS (BEI2934-BS1)										
Prepared: 9/29/2025 16:52, Analyzed: 9/29/2025 16:52										
Total Dissolved Solids	992	25	mg/L	1000		99.2	80-120			
Duplicate (BEI2934-DUP1) **Source: 5092520-05**										
Prepared: 9/29/2025 16:52, Analyzed: 9/29/2025 16:52										
Total Dissolved Solids	3630	250	mg/L		3710			2.18	10	
Duplicate (BEI2934-DUP2) **Source: 5092520-11**										
Prepared: 9/29/2025 16:52, Analyzed: 9/29/2025 16:52										
Total Dissolved Solids	4690	250	mg/L		4670			0.427	10	
Batch BEI2935 - Default Prep Wet Chem										
Blank (BEI2935-BLK1)										
Prepared: 9/29/2025 17:18, Analyzed: 9/29/2025 17:18										
Total Dissolved Solids	ND	25	mg/L							U
LCS (BEI2935-BS1)										
Prepared: 9/29/2025 17:18, Analyzed: 9/29/2025 17:18										
Total Dissolved Solids	996	25	mg/L	1000		99.6	80-120			
Duplicate (BEI2935-DUP1) **Source: 5092520-23**										
Prepared: 9/29/2025 17:18, Analyzed: 9/29/2025 17:18										
Total Dissolved Solids	836	100	mg/L		828			0.962	10	
Duplicate (BEI2935-DUP2) **Source: 5092520-41**										
Prepared: 9/29/2025 17:18, Analyzed: 9/29/2025 17:18										
Total Dissolved Solids	1450	100	mg/L		1470			1.37	10	
Batch BEI3032 - Default Prep Wet Chem										
LCS (BEI3032-BS1)										
Prepared: 9/30/2025 10:40, Analyzed: 9/30/2025 10:40										
Total Alkalinity	249	4	mg/L	250		99.6	80-120			
Phenolphthalein Alkalinity	23	4	mg/L	24.0		95.8	80-120			
Bicarbonate Alkalinity as CaCO3	203	4	mg/L	204		99.5	80-120			
Carbonate Alkalinity as CaCO3	46	4	mg/L	48.0		95.8	80-120			
Hydroxide Alkalinity as CaCO3	ND	4	mg/L	0.00			80-120			U
Total Alkalinity pH Endpoint	4		mg/L				0-200			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI3032 - Default Prep Wet Chem										
Duplicate (BEI3032-DUP1) **Source: 5092520-05**										
Prepared: 9/30/2025 10:40, Analyzed: 9/30/2025 10:40										
Total Alkalinity	458	4	mg/L		458			0.00	10	
Phenolphthalein Alkalinity	ND	4	mg/L		ND				10	U
Bicarbonate Alkalinity as CaCO3	458	4	mg/L		458			0.00	10	
Carbonate Alkalinity as CaCO3	ND	4	mg/L		ND				10	U
Hydroxide Alkalinity as CaCO3	ND	4	mg/L		ND				10	U
Total Alkalinity pH Endpoint	4		mg/L		4			0.00	200	
Batch BEI3055 - Default Prep Wet Chem										
Blank (BEI3055-BLK1)										
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	ND	13	mg/L							U
LCS (BEI3055-BS1)										
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	127	13	mg/L	125		102	90-110			
Duplicate (BEI3055-DUP1) **Source: 5092520-11**										
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	41	13	mg/L		45			9.30	25	
Matrix Spike (BEI3055-MS1) **Source: 5092520-11**										
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	288	13	mg/L	250	45	97.2	90-110			
Matrix Spike Dup (BEI3055-MSD1) **Source: 5092520-11**										
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	282	13	mg/L	250	45	94.8	90-110	2.11	10	
Batch BEI3058 - Default Prep Wet Chem										
Blank (BEI3058-BLK1)										
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	ND	13	mg/L							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI3058 - Default Prep Wet Chem										
LCS (BEI3058-BS1)										
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	130	13	mg/L	125		104	90-110			
Duplicate (BEI3058-DUP1)	**Source: 5070039-01**									
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	59	13	mg/L		65			9.68	25	
Matrix Spike (BEI3058-MS1)	**Source: 5070039-01**									
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	308	13	mg/L	250	65	97.2	90-110			
Matrix Spike Dup (BEI3058-MSD1)	**Source: 5070039-01**									
Prepared: 10/1/2025 10:21, Analyzed: 10/1/2025 10:21										
Chemical Oxygen Demand	301	13	mg/L	250	65	94.4	90-110	2.30	10	
Batch BEI3116 - Default Prep Wet Chem										
LCS (BEI3116-BS1)										
Prepared: 10/1/2025 10:25, Analyzed: 10/1/2025 10:25										
Total Alkalinity	248	4	mg/L	250		99.2	80-120			
Phenolphthalein Alkalinity	22	4	mg/L	24.0		91.7	80-120			
Bicarbonate Alkalinity as CaCO3	204	4	mg/L	204		100	80-120			
Carbonate Alkalinity as CaCO3	44	4	mg/L	48.0		91.7	80-120			
Hydroxide Alkalinity as CaCO3	ND	4	mg/L	0.00			80-120			U
Total Alkalinity pH Endpoint	4		mg/L				0-200			
Duplicate (BEI3116-DUP1)	**Source: 5092520-11**									
Prepared: 10/1/2025 10:25, Analyzed: 10/1/2025 10:25										
Total Alkalinity	431	4	mg/L		433			0.463	10	
Phenolphthalein Alkalinity	ND	4	mg/L		ND				10	U
Bicarbonate Alkalinity as CaCO3	431	4	mg/L		433			0.463	10	
Carbonate Alkalinity as CaCO3	ND	4	mg/L		ND				10	U
Hydroxide Alkalinity as CaCO3	ND	4	mg/L		ND				10	U
Total Alkalinity pH Endpoint	4		mg/L		4			0.00	200	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEJ0046 - Default Prep Wet Chem										
Blank (BEJ0046-BLK1)										
Prepared: 10/2/2025 3:08, Analyzed: 10/2/2025 3:08										
Total Organic Carbon	ND	0.5	mg/L							U
LCS (BEJ0046-BS1)										
Prepared: 10/2/2025 3:29, Analyzed: 10/2/2025 3:29										
Total Organic Carbon	4.94	0.5	mg/L	5.00		98.7	80-120			
Duplicate (BEJ0046-DUP1) **Source: 5092520-11**										
Prepared: 10/2/2025 8:48, Analyzed: 10/2/2025 8:48										
Total Organic Carbon	1.10	0.5	mg/L		1.12			2.14	25	
Duplicate (BEJ0046-DUP2) **Source: 5092520-35**										
Prepared: 10/2/2025 14:06, Analyzed: 10/2/2025 14:06										
Total Organic Carbon	3.16	0.5	mg/L		3.15			0.374	25	
Matrix Spike (BEJ0046-MS1) **Source: 5092520-11**										
Prepared: 10/2/2025 9:09, Analyzed: 10/2/2025 9:09										
Total Organic Carbon	3.29	0.5	mg/L	2.50	1.12	86.6	80-120			
Matrix Spike (BEJ0046-MS2) **Source: 5092520-37**										
Prepared: 10/2/2025 14:27, Analyzed: 10/2/2025 14:27										
Total Organic Carbon	6.51	0.5	mg/L	5.00	1.45	101	80-120			
Batch BEJ0324 - Default Prep Wet Chem										
Blank (BEJ0324-BLK1)										
Prepared: 10/6/2025 15:13, Analyzed: 10/6/2025 15:13										
Total Organic Carbon	ND	0.5	mg/L							U
LCS (BEJ0324-BS1)										
Prepared: 10/6/2025 14:52, Analyzed: 10/6/2025 14:52										
Total Organic Carbon	5.01	0.5	mg/L	5.00		100	80-120			
Duplicate (BEJ0324-DUP1) **Source: 5081666-01**										
Prepared: 10/8/2025 11:13, Analyzed: 10/8/2025 11:13										
Total Organic Carbon	0.33	0.5	mg/L		0.67			66.5	25	Y1, J

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEJ0324 - Default Prep Wet Chem										
Duplicate (BEJ0324-DUP2) **Source: 5103047-01**										
Prepared: 10/7/2025 11:34, Analyzed: 10/7/2025 11:34										
Total Organic Carbon	2.15	0.5	mg/L		2.18			1.43	25	
Matrix Spike (BEJ0324-MS1) **Source: 5081666-02**										
Prepared: 10/8/2025 11:27, Analyzed: 10/8/2025 11:27										
Total Organic Carbon	4.72	0.5	mg/L	2.50	2.69	81.4	80-120			
Matrix Spike (BEJ0324-MS2) **Source: 5103047-02**										
Prepared: 10/7/2025 11:48, Analyzed: 10/7/2025 11:48										
Total Organic Carbon	5.96	0.5	mg/L	5.00	1.36	92.2	80-120			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2804 - Default Prep IC										
Blank (BEI2804-BLK1)										
Prepared: 9/27/2025 7:26, Analyzed: 9/27/2025 7:26										
Fluoride	ND	0.20	mg/L							U
Chloride	ND	0.5	mg/L							U
Sulfate	ND	1.0	mg/L							U
LCS (BEI2804-BS1)										
Prepared: 9/27/2025 7:03, Analyzed: 9/27/2025 7:03										
Fluoride	5.13		mg/L	5.00		103	90-110			
Chloride	12.4		mg/L	12.5		99.6	90-110			
Sulfate	25.5		mg/L	25.0		102	90-110			
Matrix Spike (BEI2804-MS1) **Source: 5092520-05**										
Prepared: 9/27/2025 5:34, Analyzed: 9/27/2025 5:34										
Sulfate	858		mg/L	250	603	102	80-120			D
Chloride	175		mg/L	125	52.9	97.9	80-120			D
Fluoride	51.6		mg/L	50.0	0.22	103	80-120			D
Matrix Spike (BEI2804-MS2) **Source: 5092520-11**										
Prepared: 9/27/2025 6:19, Analyzed: 9/27/2025 6:19										
Sulfate	1980		mg/L	250	1740	96.3	80-120			D
Fluoride	51.3		mg/L	50.0	0.14	102	80-120			D
Chloride	547		mg/L	125	423	99.2	80-120			D
Matrix Spike Dup (BEI2804-MSD1) **Source: 5092520-05**										
Prepared: 9/27/2025 5:56, Analyzed: 9/27/2025 5:56										
Fluoride	51.7		mg/L	50.0	0.22	103	80-120	0.116	20	D
Chloride	175		mg/L	125	52.9	97.5	80-120	0.269	10	D
Sulfate	857		mg/L	250	603	101	80-120	0.118	20	D
Matrix Spike Dup (BEI2804-MSD2) **Source: 5092520-11**										
Prepared: 9/27/2025 6:41, Analyzed: 9/27/2025 6:41										
Chloride	545		mg/L	125	423	97.3	80-120	0.434	10	D
Sulfate	1980		mg/L	250	1740	95.6	80-120	0.0829	20	D
Fluoride	51.0		mg/L	50.0	0.14	102	80-120	0.508	20	D

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI2811 - Default Prep IC										
Blank (BEI2811-BLK1)										
Prepared: 9/27/2025 2:56, Analyzed: 9/27/2025 2:56										
Fluoride	ND	0.20	mg/L							U
Sulfate	ND	1.0	mg/L							U
Chloride	ND	0.5	mg/L							U
LCS (BEI2811-BS1)										
Prepared: 9/27/2025 2:34, Analyzed: 9/27/2025 2:34										
Fluoride	5.09		mg/L	5.00		102	90-110			
Chloride	12.3		mg/L	12.5		98.1	90-110			
Sulfate	25.0		mg/L	25.0		99.8	90-110			
Matrix Spike (BEI2811-MS1) **Source: 5070039-01**										
Prepared: 9/27/2025 1:09, Analyzed: 9/27/2025 1:09										
Sulfate	501		mg/L	500	27.2	94.8	80-120			D
Chloride	922		mg/L	250	678	97.6	80-120			D
Fluoride	102		mg/L	100	0.90	101	80-120			D
Matrix Spike (BEI2811-MS2) **Source: 5070039-03**										
Prepared: 9/27/2025 1:52, Analyzed: 9/27/2025 1:52										
Sulfate	696		mg/L	500	184	102	80-120			D
Chloride	427		mg/L	250	176	101	80-120			D
Fluoride	107		mg/L	100	0.90	106	80-120			D
Matrix Spike Dup (BEI2811-MSD1) **Source: 5070039-01**										
Prepared: 9/27/2025 1:30, Analyzed: 9/27/2025 1:30										
Chloride	927		mg/L	250	678	99.4	80-120	0.504	10	D
Sulfate	497		mg/L	500	27.2	94.0	80-120	0.821	20	D
Fluoride	101		mg/L	100	0.90	100	80-120	0.493	20	D
Matrix Spike Dup (BEI2811-MSD2) **Source: 5070039-03**										
Prepared: 9/27/2025 2:13, Analyzed: 9/27/2025 2:13										
Fluoride	106		mg/L	100	0.90	105	80-120	1.15	20	D
Sulfate	690		mg/L	500	184	101	80-120	0.927	20	D
Chloride	426		mg/L	250	176	100	80-120	0.342	10	D

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEI3049 - Default Prep IC										
Blank (BEI3049-BLK1)										
Prepared: 10/1/2025 3:50, Analyzed: 10/1/2025 3:50										
Fluoride	ND	0.20	mg/L							U
Chloride	ND	0.5	mg/L							U
Sulfate	ND	1.0	mg/L							U
LCS (BEI3049-BS1)										
Prepared: 10/1/2025 3:28, Analyzed: 10/1/2025 3:28										
Fluoride	5.23		mg/L	5.00		105	90-110			
Chloride	12.5		mg/L	12.5		100	90-110			
Sulfate	25.8		mg/L	25.0		103	90-110			
Matrix Spike (BEI3049-MS1) **Source: 5070057-01**										
Prepared: 10/1/2025 1:59, Analyzed: 10/1/2025 1:59										
Chloride	455		mg/L	250	201	102	80-120			D
Sulfate	537		mg/L	500	30.5	101	80-120			D
Fluoride	107		mg/L	100	0.16	107	80-120			D
Matrix Spike (BEI3049-MS2) **Source: 5070226-01**										
Prepared: 10/1/2025 2:43, Analyzed: 10/1/2025 2:43										
Sulfate	1280		mg/L	1250	26.8	101	80-120			D
Fluoride	264		mg/L	250	0.13	106	80-120			D
Chloride	657		mg/L	625	36.5	99.2	80-120			D
Matrix Spike Dup (BEI3049-MSD1) **Source: 5070057-01**										
Prepared: 10/1/2025 2:21, Analyzed: 10/1/2025 2:21										
Fluoride	106		mg/L	100	0.16	106	80-120	0.620	20	D
Sulfate	533		mg/L	500	30.5	101	80-120	0.628	20	D
Chloride	452		mg/L	250	201	100	80-120	0.587	10	D
Matrix Spike Dup (BEI3049-MSD2) **Source: 5070226-01**										
Prepared: 10/1/2025 3:06, Analyzed: 10/1/2025 3:06										
Chloride	669		mg/L	625	36.5	101	80-120	1.92	10	D
Fluoride	273		mg/L	250	0.13	109	80-120	3.26	20	D
Sulfate	1330		mg/L	1250	26.8	105	80-120	3.81	20	D

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Certified Analyses included in this Report

Analyte	Certifications
2320 B-2011 in Water	
Total Alkalinity	KY Drinking Water Mdv (00030) KY Wastewater Mdv (00030) TN Drinking Water (02819) VA NELAC MDV (460210) MS Drinking Water MADV
2510 B-2011 in Water	
Specific Conductance (Lab)	KY Drinking Water Mdv (00030) VA NELAC MDV (460210) TN Drinking Water (02819) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 FL Drinking Water Mdv (E871159)
2540 C-2015 in Water	
Total Dissolved Solids	KY Drinking Water Mdv (00030) VA NELAC MDV (460210) KY Wastewater Mdv (00030) TN Drinking Water (02819) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 MS Drinking Water MADV
5310 C-2014 in Water	
Total Organic Carbon	KY Drinking Water Mdv (00030) VA NELAC MDV (460210) KY Wastewater Mdv (00030) TN Drinking Water (02819) ADEM Drinking Water Mdv (41880) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 MS Drinking Water MADV
EPA 245.7 REV 2 in Water	
Mercury	VA NELAC MDV (460210) KY Wastewater Mdv (00030)
Mercury	VA NELAC MDV (460210) KY Wastewater Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
EPA 300.0 REV 2.1 in Water	
Chloride	KY Drinking Water Mdv (00030) KY Wastewater Mdv (00030) TN Drinking Water (02819) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 MS Drinking Water MADV VA NELAC MDV (460210)
Fluoride	KY Drinking Water Mdv (00030) IN Drinking Water Mdv (C-KY-02) KY Wastewater Mdv (00030) WV Drinking Water Mdv (9959 M) TN Drinking Water (02819) ADEM Drinking Water Mdv (41880) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 VA NELAC MDV (460210) MS Drinking Water MADV
Sulfate	KY Drinking Water Mdv (00030) VA NELAC MDV (460210) KY Wastewater Mdv (00030) TN Drinking Water (02819) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
HACH 8000 in Water	
Chemical Oxygen Demand	KY Wastewater Mdv (00030) VA NELAC MDV (460210) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
SW846 6010 B in Water	
Calcium	VA NELAC MDV (460210)

Sample Acceptance Checklist for Work Order 5092520

Shipped By: Client

Temperature: 2.10° Celcius

Condition	
Check if Custody Seals are Present/Intact	☐
Check if Custody Signatures are Present	☑
Check if Collector Signature Present	☑
Check if bottles are intact	☑
Check if bottles are correct	☑
Check if bottles have sufficient volume	☑
Check if samples received on ice	☑
Check if VOA headspace is acceptable	☐
Check if samples received in holding time.	☑
Check if samples are preserved properly	☑

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Tran Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-01 A	9.24.25	0705	Plastic 1L	1	MW1	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0
5092520-01 B	9.24.25	0705	Plastic 500mL pH<2 w/HNO3	1	MW1	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-01 C	9.24.25	0705	Plastic 500mL pH<2 w/H2SO4	1	MW1	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-01 D	9.24.25	0705	CG 250mL pH<2 w/HCL	1	MW1	g / c	Mercury Tot 245.7
5092520-01 E	9.24.25	0705	CG 250mL pH<2 w/HCL	1	MW1	g / c	Mercury Tot 245.7

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Tran'S Sneed Date (mm/dd/yy) 9.24.25 Time (24 hr) 0705

pH 5.92 Cond (~~umho~~ mS) 3.63 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 17.29 or (oF) ____ Static Water Level ____ DO (mg/L) 0.00 Turb. (NTU) 49.8

Flow: ____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Tran Sneed	Tran Do	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-01 F	9-24-25	0705	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW1	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				
5092520-01 G	9-24-25	0705	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW1	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-01 H	9-24-25	0705	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW1	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-01 I	9-24-25	0705	Plastic 1L pH<2 w/HNO3 Sub	1	MW1	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-01 J	9-24-25	0705	AG 250mL pH<2 w/H2SO4	1	MW1	g / c	TOC
			Preservation Check: pH : ✓				
5092520-02 A	9-24-25	0705	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-1	g / c	Mercury Tot 245.7 Field Blank
5092520-03 A	9-24-25	0705	Plastic 1L	1	MW2	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 283724

Field data collected by: Travis Sneed Date (mm/dd/yy) 9-24-25 Time (24 hr) 0705

pH 5.92 Cond (~~umho~~ mS) 3.43 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 17.29 or (oF) ____ Static Water Level ____ DO (mg/L) 0.00 Turb. (NTU) 49.8

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	KED	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Smead *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-03 B	9.24.25	1200	Plastic 500mL pH<2 w/HNO3	1	MW2	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-03 C	9.24.25	1200	Plastic 500mL pH<2 w/H2SO4	1	MW2	g / c	COD TOC
			Preservation Check: pH : ___				
5092520-03 D	9.24.25	1200	CG 250mL pH<2 w/HCL	1	MW2	g / c	Mercury Tot 245.7
5092520-03 E	9.24.25	1200	CG 250mL pH<2 w/HCL	1	MW2	g / c	Mercury Tot 245.7
5092520-03 F	9.24.25	1200	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW2	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: JCD pH Paper Lot #: 213724

Field data collected by: Travis Smead Date (mm/dd/yy) 9.24.25 Time (24 hr) 1200

pH 6.37 Cond (~~umho~~) MS 0.864 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.19 or (oF) _____ Static Water Level _____ DO (mg/L) 0.00 Turb. (NTU) 17.3

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Smead		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ___ Start time ___ End Date ___ End Time ___ Temp (oC) ___

Effluent: Start Date ___ Start time ___ End Date ___ End Time ___ Temp (oC) ___

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-03 G	9.24.25	1200	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW2	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-03 H	9.24.25	1200	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW2	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-03 I	9.24.25	1200	Plastic 1L pH<2 w/HNO3 Sub	1	MW2	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-03 J	9.24.25	1200	AG 250mL pH<2 w/H2SO4	1	MW2	g / c	TOC
			Preservation Check: pH : ✓				
5092520-04 A	9.24.25	1200	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-2	g / c	Mercury Tot 245.7 Field Blank
5092520-05 A	9.24.25	1200	Plastic 1L	1	MW3	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: VED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 9.24.25 Time (24 hr) 1200

pH 6.37 Cond (~~umho~~ mS) 0.864 Res Cl (mg/L) ___ Tot Cl (mg/L) ___ Free Cl (mg/L) ___

Temp (oC) 20.19 or (oF) ___ Static Water Level ___ DO (mg/L) 0.00 Turb. (NTU) 17.3

Flow: ___ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[illegible]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed

required information

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-05 B	09-24-25	1140	Plastic 500mL pH<2 w/HNO3	1	MW3	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-05 C	09-24-25	1140	Plastic 500mL pH<2 w/H2SO4	1	MW3	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-05 D	09-24-25	1140	CG 250mL pH<2 w/HCL	1	MW3	g / c	Mercury Tot 245.7
5092520-05 E	09-24-25	1140	CG 250mL pH<2 w/HCL	1	MW3	g / c	Mercury Tot 245.7
5092520-05 F	09-24-25	1140	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW3	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED

pH Paper Lot #: 283724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09-24-25 Time (24 hr) 1140

pH 6.47 Cond (~~umho~~) 1.87 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 20.09 or (oF) ____ Static Water Level ____ DO (mg/L) 0 Turb. (NTU) 69.8

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-05 G	09.24.25	1140	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW3	g / c	Radium 228 (sub)
5092520-05 H	09.24.25	1140	Plastic 1L pH<2 w/HNO3 Rad 228 Sub **Preservation Check: pH :** ✓	1	MW3	g / c	Radium 228 (sub)
5092520-05 I	09.24.25	1140	Plastic 1L pH<2 w/HNO3 Sub **Preservation Check: pH :** ✓	1	MW3	g / c	Radium Total (sub)
5092520-05 J	09.24.25	1140	AG 250mL pH<2 w/H2SO4 **Preservation Check: pH :** ✓	1	MW3	g / c	TOC
5092520-06 A	09.24.25	1140	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-3	g / c	Mercury Tot 245.7 Field Blank
5092520-07 A	09.24.25	1140	Plastic 1L	1	MW4	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09.24.25 Time (24 hr) 1140

pH 6.47 Cond (~~umho~~ mS) 1.87 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.09 or (oF) _____ Static Water Level _____ DO (mg/L) 0 Turb. (NTU) 69.8

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[illegible]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-07 B	9.24.25	1045	Plastic 500mL pH<2 w/HNO3	1	MW4	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-07 C	9.24.25	1045	Plastic 500mL pH<2 w/H2SO4	1	MW4	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-07 D	9.24.25	1045	CG 250mL pH<2 w/HCL	1	MW4	g / c	Mercury Tot 245.7
5092520-07 E	9.24.25	1045	CG 250mL pH<2 w/HCL	1	MW4	g / c	Mercury Tot 245.7
5092520-07 F	9.24.25	1045	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW4	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: JCD pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 9.24.25 Time (24 hr) 1045

pH 6.17 Cond (~~umho~~ mS) 2.38 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 19.45 or (oF) _____ Static Water Level _____ DO (mg/L) 0.00 Turb. (NTU) 3.2

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-07 G	9.24.25	1046	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW4	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-07 H	9.24.25	1045	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW4	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-07 I	9.24.25	1045	Plastic 1L pH<2 w/HNO3 Sub	1	MW4	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-07 J	9.24.25	1045	AG 250mL pH<2 w/H2SO4	1	MW4	g / c	TOC
			Preservation Check: pH : ✓				
5092520-08 A	9.24.25	1045	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-4	g / c	Mercury Tot 245.7 Field Blank
5092520-09 A	9.24.25	1045	Plastic 1L	1	MW4D	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: VED pH Paper Lot #: 283724

Field data collected by: Travis Sneed Date (mm/dd/yy) 9.24.25 Time (24 hr) 1045

pH 6.17 Cond (~~umho~~ mS) 2.38 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 19.45 or (oF) ____ Static Water Level ____ DO (mg/L) 0.00 Turb. (NTU) 3.2

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed		9-25-25	1130

☐ **PACE- Check here if trip charge applied to associated COC**

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825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

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Scheduled for: 09/22/2025

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Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Snead *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-09 B	09-23-25	0925	Plastic 500mL pH<2 w/HNO3	1	MW4D	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-09 C	09-23-25	0925	Plastic 500mL pH<2 w/H2SO4	1	MW4D	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-09 D	09-23-25	0925	CG 250mL pH<2 w/HCL	1	MW4D	g / c	Mercury Tot 245.7
5092520-09 E	09-23-25	0925	CG 250mL pH<2 w/HCL	1	MW4D	g / c	Mercury Tot 245.7
5092520-09 F	09-23-25	0925	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW4D	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Travis Snead Date (mm/dd/yy) 09-23-25 Time (24 hr) 0925

pH 6.33 Cond (umho) 5.08 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.01 or (oF) _____ Static Water Level _____ DO (mg/L) 0 Turb. (NTU) 99.3

Flow: _____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Snead	K De	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-09 G	09·23·25	0925	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW4D	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-09 H	09·23·25	0925	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW4D	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-09 I	09·23·25	0925	Plastic 1L pH<2 w/HNO3 Sub	1	MW4D	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-09 J	09·23·25	0925	AG 250mL pH<2 w/H2SO4	1	MW4D	g / c	TOC
			Preservation Check: pH : ✓				
5092520-10 A	09·23·25	0925	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-4D	g / c	Mercury Tot 245.7 Field Blank
5092520-11 A	09·23·25	0925	Plastic 1L	1	MW5	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KCD pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09·23·25 Time (24 hr) 0925

pH 6.33 Cond (umho) 5.08 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.01 or (oF) _____ Static Water Level _____ DO (mg/L) 0 Turb. (NTU) 99.3

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[illegible]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

MS/MSD

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
	09/24/25	0740					
5092520-11 B	09/24/25	0740	Plastic 500mL pH<2 w/HNO3	1	MW5	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-11 C	09/24/25	0740	Plastic 500mL pH<2 w/H2SO4	1	MW5	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-11 D	09/24/25	0740	CG 250mL pH<2 w/HCL	1	MW5	g / c	Mercury Tot 245.7
5092520-11 E	09/24/25	0740	CG 250mL pH<2 w/HCL	1	MW5	g / c	Mercury Tot 245.7
5092520-11 F	09/24/25	0740	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW5	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09/24/25 Time (24 hr) 0740

pH 6.24 Cond (ms) 4.72 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 19.83 or (oF) _____ Static Water Level _____ DO (mg/L) 0.66 Turb. (NTU) 2.5

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	K Do	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-11 G	09/24/25	0740	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW5	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-11 H	09/24/25	0740	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW5	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-11 I	09/24/25	0740	Plastic 1L pH<2 w/HNO3 Sub	1	MW5	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-11 J	09/24/25	0740	AG 250mL pH<2 w/H2SO4	1	MW5	g / c	TOC
			Preservation Check: pH : ✓				
5092520-12 A	09/24/25	0740	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-5	g / c	Mercury Tot 245.7 Field Blank
5092520-13 A	09/24/25	0740	Plastic 1L	1	MW6	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09/24/25 Time (24 hr) 0740

pH 6.24 Cond (~~umho~~ mS) 4.72 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 15.83 or (oF) _____ Static Water Level _____ DO (mg/L) 0.61 Turb. (NTU) 2.5

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-13 B	09-24-25	0955	Plastic 500mL pH<2 w/HNO3	1	MW6	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-13 C	09-24-25	0955	Plastic 500mL pH<2 w/H2SO4	1	MW6	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-13 D	09-24-25	0955	CG 250mL pH<2 w/HCL	1	MW6	g / c	Mercury Tot 245.7
5092520-13 E	09-24-25	0955	CG 250mL pH<2 w/HCL	1	MW6	g / c	Mercury Tot 245.7
5092520-13 F	09-24-25	0955	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW6	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09-24-25 Time (24 hr) 0955

pH 6.27 Cond (~~umho~~ mS) 3.43 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 19.42 or (oF) ____ Static Water Level ____ DO (mg/L) 0 Turb. (NTU) 12.2

Flow: ____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	V Do	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

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Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-13 G	09.24.25	0955	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW6	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-13 H	09.24.25	0955	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW6	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-13 I	09.24.25	0955	Plastic 1L pH<2 w/HNO3 Sub	1	MW6	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-13 J	09.24.25	0955	AG 250mL pH<2 w/H2SO4	1	MW6	g / c	TOC
			Preservation Check: pH : ✓				
5092520-14 A	09.24.25	0955	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-6	g / c	Mercury Tot 245.7 Field Blank
5092520-15 A	09.24.25	0955	Plastic 1L	1	MW7	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09.24.25 Time (24 hr) 0955

pH 6.27 Cond (~~mmho~~ mS) 3.43 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 19.42 or (oF) _____ Static Water Level _____ DO (mg/L) 0 Turb. (NTU) 12.2

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[signature]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Smead

required information

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-15 B	9-24-25	0850	Plastic 500mL pH<2 w/HNO3	1	MW7	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-15 C	9-24-25	0850	Plastic 500mL pH<2 w/H2SO4	1	MW7	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-15 D	9-24-25	0850	CG 250mL pH<2 w/HCL	1	MW7	g / c	Mercury Tot 245.7
5092520-15 E	9-24-25	0850	CG 250mL pH<2 w/HCL	1	MW7	g / c	Mercury Tot 245.7
5092520-15 F	9-24-25	0850	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW7	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Smead Date (mm/dd/yy) 9-24-25 Time (24 hr) 0850

pH 6.31 Cond (~~umho~~ mS) 2.81e Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 17.4e or (oF) ____ Static Water Level ____ DO (mg/L) 0.00 Turb. (NTU) 55.0

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Smead	K Doe	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ___ Start time ___ End Date ___ End Time ___ Temp (oC) ___

Effluent: Start Date ___ Start time ___ End Date ___ End Time ___ Temp (oC) ___

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-15 G	9-24-25	0850	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW7	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-15 H	9-24-25	0850	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW7	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-15 I	9-24-25	0850	Plastic 1L pH<2 w/HNO3 Sub	1	MW7	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-15 J	9-24-25	0850	AG 250mL pH<2 w/H2SO4	1	MW7	g / c	TOC
			Preservation Check: pH : ✓				
5092520-16 A	9-24-25	0850	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-7	g / c	Mercury Tot 245.7 Field Blank
5092520-17 A	9-24-25	0850	Plastic 1L	1	MW8	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 9-24-25 Time (24 hr) 0850

pH 10.31 Cond (~~umho~~ mS) 2.86 Res Cl (mg/L) ___ Tot Cl (mg/L) ___ Free Cl (mg/L) ___

Temp (oC) 17.06 or (oF) ___ Static Water Level ___ DO (mg/L) 0.00 Turb. (NTU) 65.0

Flow: ___ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	K Q	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Speed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-17 B	09-24-25	0750	Plastic 500mL pH<2 w/HNO3	1	MW8	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-17 C	09-24-25	0750	Plastic 500mL pH<2 w/H2SO4	1	MW8	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-17 D	09-24-25	0750	CG 250mL pH<2 w/HCL	1	MW8	g / c	Mercury Tot 245.7
5092520-17 E	09-24-25	0750	CG 250mL pH<2 w/HCL	1	MW8	g / c	Mercury Tot 245.7
5092520-17 F	09-24-25	0750	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW8	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Speed Date (mm/dd/yy) 09-24-25 Time (24 hr) 0750

pH 6.32 Cond (~~umhs~~ mS) 1.91 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.37 or (oF) _____ Static Water Level _____ DO (mg/L) 0 Turb. (NTU) 183

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Speed	[signature]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-17 G	09.24.25	0750	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW8	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-17 H	09.24.25	0750	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW8	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-17 I	09.24.25	0750	Plastic 1L pH<2 w/HNO3 Sub	1	MW8	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-17 J	09.24.25	0750	AG 250mL pH<2 w/H2SO4	1	MW8	g / c	TOC
			Preservation Check: pH : ✓				
5092520-18 A	09.24.25	0750	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-8	g / c	Mercury Tot 245.7 Field Blank
5092520-19 A	09.24.25	0750	Plastic 1L	1	MW10	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 213254

Field data collected by: Travis Sneed Date (mm/dd/yy) 09.24.25 Time (24 hr) 0750

pH 6.32 Cond (~~umho~~ mS) 1.91 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.37 or (oF) _____ Static Water Level _____ DO (mg/L) 0 Turb. (NTU) 183

Flow: _____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	KED	9-25-25	1130

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Pace Analytical Services LLC Kentucky
625 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

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Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-19 B	09/24/25	1135	Plastic 500mL pH<2 w/HNO3	1	MW10	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-19 C	09/24/25	1135	Plastic 500mL pH<2 w/H2SO4	1	MW10	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-19 D	09/24/25	1135	CG 250mL pH<2 w/HCL	1	MW10	g / c	Mercury Tot 245.7
5092520-19 E	09/24/25	1135	CG 250mL pH<2 w/HCL	1	MW10	g / c	Mercury Tot 245.7
5092520-19 F	09/24/25	1135	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW10	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09/24/25 Time (24 hr) 1135

pH 5.91 Cond (~~umho~~ mS) 3.64 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 20.75 or (oF) ____ Static Water Level ____ DO (mg/L) 0.17 Turb. (NTU) 7.8

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

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Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-19 G	09/24/25	1135	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW10	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-19 H	09/24/25	1135	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW10	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-19 I	09/24/25	1135	Plastic 1L pH<2 w/HNO3 Sub	1	MW10	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-19 J	09/24/25	1135	AG 250mL pH<2 w/H2SO4	1	MW10	g / c	TOC
			Preservation Check: pH : ✓				
5092520-20 A	09/24/25	1135	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-10	g / c	Mercury Tot 245.7 Field Blank
5092520-21 A	09/24/25	1135	Plastic 1L	1	MW-10D	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09/24/25 Time (24 hr) 1135

pH 5.91 Cond (~~umho~~ mS) 3.64 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.75 or (oF) _____ Static Water Level _____ DO (mg/L) 0.17 Turb. (NTU) 7.8

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-21 B	09-23-25	1100	Plastic 500mL pH<2 w/HNO3	1	MW-10D	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-21 C	09-23-25	1100	Plastic 500mL pH<2 w/H2SO4	1	MW-10D	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-21 D	09-23-25	1100	CG 250mL pH<2 w/HCL	1	MW-10D	g / c	Mercury Tot 245.7
5092520-21 E	09-23-25	1100	CG 250mL pH<2 w/HCL	1	MW-10D	g / c	Mercury Tot 245.7
5092520-21 F	09-23-25	1100	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW-10D	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: ~~Travis Sneed~~ 7.5 1100 pH Paper Lot #: D13724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09-23-25 Time (24 hr) 1100

pH 6.32 Cond (~~umho~~ mS) 3.77 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 28.11 or (oF) _____ Static Water Level _____ DO (mg/L) .17 Turb. (NTU) 0.2

Flow: _____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

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Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-21 G	09-23-25	1100	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-10D	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-21 H	09-23-25	1100	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-10D	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-21 I	09-23-25	1100	Plastic 1L pH<2 w/HNO3 Sub	1	MW-10D	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-21 J	09-23-25	1100	AG 250mL pH<2 w/H2SO4	1	MW-10D	g / c	TOC
			Preservation Check: pH : ✓				
5092520-22 A	09-23-25	1100	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-10D	g / c	Mercury Tot 245.7 Field Blank
5092520-23 A	09-23-25	1100	Plastic 1L	1	MW102	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 2B724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09-23-25 Time (24 hr) 1100

pH 6.32 Cond (~~umho~~ mS) 3.77 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 28.11 or (oF) _____ Static Water Level _____ DO (mg/L) .17 Turb. (NTU) 0.2

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Breed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-23 B	09.23.25	1150	Plastic 500mL pH<2 w/HNO3	1	MW102	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-23 C	09.23.25	1150	Plastic 500mL pH<2 w/H2SO4	1	MW102	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-23 D	09.23.25	1150	CG 250mL pH<2 w/HCL	1	MW102	g / c	Mercury Tot 245.7
5092520-23 E	09.23.25	1150	CG 250mL pH<2 w/HCL	1	MW102	g / c	Mercury Tot 245.7
5092520-23 F	09.23.25	1160	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW102	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Breed Date (mm/dd/yy) 09.23.25 Time (24 hr) 1150

pH 6.61 Cond (MS/umho) 1.17 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.32 or (oF) _____ Static Water Level _____ DO (mg/L) 0.00 Turb. (NTU) 6.0

Flow: _____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Breed	[signature]	9.25.25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Snead *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY
Workorder # 5092520

Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-23 G	09.23.25	1150	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW102	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-23 H	09.23.25	1150	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW102	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-23 I	09.23.25	1150	Plastic 1L pH<2 w/HNO3 Sub	1	MW102	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-23 J	09.23.25	1150	AG 250mL pH<2 w/H2SO4	1	MW102	g / c	TOC
			Preservation Check: pH : ✓				
5092520-24 A	09.23.25	1150	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-102	g / c	Mercury Tot 245.7 Field Blank
5092520-25 A	09.23.25	1150	Plastic 1L	1	MW104	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KQ pH Paper Lot #: 213724

Field data collected by: Travis Snead MJ Date (mm/dd/yy) 09.23.25 Time (24 hr) 1150

pH 6.61 Cond (umhs) 1.17 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 18.32 or (oF) ____ Static Water Level ____ DO (mg/L) 0.00 Turb. (NTU) 6.6

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Snead	KQ	9-25-25	1130

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825 Industrial Road
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Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
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Brian Edwards
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Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-25 B	09.23.25	0930	Plastic 500mL pH<2 w/HNO3	1	MW104	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-25 C	09.23.25	0930	Plastic 500mL pH<2 w/H2SO4	1	MW104	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-25 D	09.23.25	0930	CG 250mL pH<2 w/HCL	1	MW104	g / c	Mercury Tot 245.7
5092520-25 E	09.23.25	0930	CG 250mL pH<2 w/HCL	1	MW104	g / c	Mercury Tot 245.7
5092520-25 F	09.23.25	0930	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW104	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: [signature] Date (mm/dd/yy) 09.23.25 Time (24 hr) 0930

pH 6.57 Cond (~~umho~~ mS) 2.11 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 18.49 or (oF) ____ Static Water Level ____ DO (mg/L) 0.00 Turb. (NTU) 120

Flow: ____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
[signature]	[signature]	9-25-25	1130

☐ **PACE- Check here if trip charge applied to associated COC**

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Report To:
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Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-25 G	09.23.25	0930	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW104	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-25 H	09.23.25	0930	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW104	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-25 I	09.23.25	0930	Plastic 1L pH<2 w/HNO3 Sub	1	MW104	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-25 J	09.23.25	0930	AG 250mL pH<2 w/H2SO4	1	MW104	g / c	TOC
			Preservation Check: pH : ✓				
5092520-26 A	09.23.25	0930	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-104	g / c	Mercury Tot 245.7 Field Blank
5092520-27 A	09.23.25	0930	Plastic 1L	1	MW-105R	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09.23.25 Time (24 hr) 0930

pH 6.57 Cond (~~umhe~~ mS) 2.11 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.49 or (oF) _____ Static Water Level _____ DO (mg/L) 0.00 Turb. (NTU) 120

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	KED	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-27 B	09.23.25	0735	Plastic 500mL pH<2 w/HNO3	1	MW-105R	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-27 C	09.23.25	0735	Plastic 500mL pH<2 w/H2SO4	1	MW-105R	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-27 D	09.23.25	0735	CG 250mL pH<2 w/HCL	1	MW-105R	g / c	Mercury Tot 245.7
5092520-27 E	09.23.25	0735	CG 250mL pH<2 w/HCL	1	MW-105R	g / c	Mercury Tot 245.7
5092520-27 F	09.23.25	0735	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW-105R	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09.23.25 Time (24 hr) 0735

pH 6.03 Cond (~~umho~~ MS) 1.25 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 18.03 or (oF) ____ Static Water Level ____ DO (mg/L) 0.01 Turb. (NTU) 30.0

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[illegible]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-27 G	09.23.25	0735	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-105R	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-27 H	09.23.25	0735	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-105R	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-27 I	09.23.25	0735	Plastic 1L pH<2 w/HNO3 Sub	1	MW-105R	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-27 J	09.23.25	0735	AG 250mL pH<2 w/H2SO4	1	MW-105R	g / c	TOC
			Preservation Check: pH : ✓				
5092520-28 A	09.23.25	0735	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-105R	g / c	Mercury Tot 245.7 Field Blank
5092520-29 A	09.23.25	0735	Plastic 1L	1	MW110	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09.23.25 Time (24 hr) 0735

pH 6.03 Cond (~~mmho~~ mS) 1.25 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.03 or (oF) _____ Static Water Level _____ DO (mg/L) 0.01 Turb. (NTU) 36.0

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	K Q	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Speed *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-29 B	09.23.25	0750	Plastic 500mL pH<2 w/HNO3	1	MW110	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-29 C	09.23.25	0750	Plastic 500mL pH<2 w/H2SO4	1	MW110	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-29 D	09.23.25	0750	CG 250mL pH<2 w/HCL	1	MW110	g / c	Mercury Tot 245.7
5092520-29 E	09.23.25	0750	CG 250mL pH<2 w/HCL	1	MW110	g / c	Mercury Tot 245.7
5092520-29 F	09.23.25	0750	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW110	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: D137254

Field data collected by: Travis Speed Date (mm/dd/yy) 09.23.25 Time (24 hr) 0750

pH 6.77 Cond (~~umho~~ mS) .437 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.165 or (oF) _____ Static Water Level _____ DO (mg/L) .47 Turb. (NTU) 61.6

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Speed	[signature]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-29 G	09·23·25	0750	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW110	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-29 H	09·23·25	0750	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW110	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-29 I	09·23·25	0750	Plastic 1L pH<2 w/HNO3 Sub	1	MW110	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-29 J	09·23·25	0750	AG 250mL pH<2 w/H2SO4	1	MW110	g / c	TOC
			Preservation Check: pH : ✓				
5092520-30 A	09·23·25	0750	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-110	g / c	Mercury Tot 245.7 Field Blank
5092520-31 A	09·23·25	0750	Plastic 1L	1	MW-111	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09·23·25 Time (24 hr) 0750

pH 6.77 Cond (~~umho~~ mS) .437 Res Cl (mg/L) ___ _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.65 or (oF) _____ Static Water Level _____ DO (mg/L) .47 Turb. (NTU) 61.6

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[signature]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Speed
required information

Compliance Monitoring? Yes ✓ No
Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-31 B	09/23/25	1205	Plastic 500mL pH<2 w/HNO3	1	MW-111	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-31 C	09/23/25	1205	Plastic 500mL pH<2 w/H2SO4	1	MW-111	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-31 D	09/23/25	1205	CG 250mL pH<2 w/HCL	1	MW-111	g / c	Mercury Tot 245.7
5092520-31 E	09/23/25	1205	CG 250mL pH<2 w/HCL	1	MW-111	g / c	Mercury Tot 245.7
5092520-31 F	09/23/25	1205	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW-111	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED

pH Paper Lot #: 213724

Field data collected by: Travis Speed Date (mm/dd/yy) 09/23/25 Time (24 hr) 1205

pH 6.72 Cond (~~umho~~ MS) 3.54 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 20.35 or (oF) ____ Static Water Level ____ DO (mg/L) 0.23 Turb. (NTU) 4.8

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Speed	[signature]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-31 G	09/23/25	1205	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-111	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-31 H	09/23/25	1205	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-111	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-31 I	09/23/25	1205	Plastic 1L pH<2 w/HNO3 Sub	1	MW-111	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-31 J	09/23/25	1205	AG 250mL pH<2 w/H2SO4	1	MW-111	g / c	TOC
			Preservation Check: pH : ✓				
5092520-32 A	09/23/25	1205	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-111	g / c	Mercury Tot 245.7 Field Blank
5092520-33 A	09/23/25	1205	Plastic 1L	1	MW-112	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 9-23-25 Time (24 hr) 1205

pH 6.72 Cond (~~umho~~ mS) 3.54 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 20.35 or (oF) ____ Static Water Level ____ DO (mg/L) 0.23 Turb. (NTU) 4.8

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Smith *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-33 B	09/23/25	0940	Plastic 500mL pH<2 w/HNO3	1	MW-112	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-33 C	09/23/25	0940	Plastic 500mL pH<2 w/H2SO4	1	MW-112	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-33 D	09/23/25	0940	CG 250mL pH<2 w/HCL	1	MW-112	g / c	Mercury Tot 245.7
5092520-33 E	09/23/25	0940	CG 250mL pH<2 w/HCL	1	MW-112	g / c	Mercury Tot 245.7
5092520-33 F	09/23/25	0940	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1 ✓	MW-112	g / c	Radium 226 (sub)
			Preservation Check: pH : ___				

Preservation Check Performed by: VED pH Paper Lot #: 213124

Field data collected by: Travis Smith Date (mm/dd/yy) 09/23/25 Time (24 hr) 0940

pH 6.96 Cond (~~umho~~) MS 1.36 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.70 or (oF) _____ Static Water Level _____ DO (mg/L) 6.00 Turb. (NTU) 8.2

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Smith	[signature]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Speed *required information

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY
Workorder # 5092520

Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-33 G	09/23/25	0940	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-112	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-33 H	09/23/25	0940	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-112	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-33 I	09/23/25	0940	Plastic 1L pH<2 w/HNO3 Sub	1	MW-112	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-33 J	09/23/25	0940	AG 250mL pH<2 w/H2SO4	1	MW-112	g / c	TOC
			Preservation Check: pH : ✓				
5092520-34 A	09/23/25	0940	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-112	g / c	Mercury Tot 245.7 Field Blank
5092520-35 A	09/23/25	0940	Plastic 1L	1	MW-113	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Travis Speed Date (mm/dd/yy) 09/23/25 Time (24 hr) 0940

pH 6.96 Cond (~~umhe~~ mS) 1.36 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 18.70 or (oF) ____ Static Water Level ____ DO (mg/L) 0.00 Turb. (NTU) 8.2

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Speed	[signature]	9-25-25	1130

☐ **PACE- Check here if trip charge applied to associated COC**

Printed: 9/3/2025 1:32:50PM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed
required information

Compliance Monitoring? Yes ✓ No
Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-35 G	09/23/25	0750	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-113	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-35 H	09/23/25	0750	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-113	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-35 I	09/23/25	0750	Plastic 1L pH<2 w/HNO3 Sub	1	MW-113	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-35 J	09/23/25	0750	AG 250mL pH<2 w/H2SO4	1	MW-113	g / c	TOC
			Preservation Check: pH : ✓				
5092520-36 A	09/23/25	0750	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-113	g / c	Mercury Tot 245.7 Field Blank
5092520-37 A	09/23/25	0750	Plastic 1L	1	MW-114	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: VED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09/23/25 Time (24 hr) 0750

pH 6.72 Cond (~~umhe~~ MS) 1.92 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 17.84 or (oF) ____ Static Water Level ____ DO (mg/L) 0.05 Turb. (NTU) 3.41

Flow: ____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	VED	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Smead *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-35 B	09/23/25	0750	Plastic 500mL pH<2 w/HNO3	1	MW-113	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-35 C	09/23/25	0750	Plastic 500mL pH<2 w/H2SO4	1	MW-113	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-35 D	09/23/25	0750	CG 250mL pH<2 w/HCL	1	MW-113	g / c	Mercury Tot 245.7
5092520-35 E	09/23/25	0750	CG 250mL pH<2 w/HCL	1	MW-113	g / c	Mercury Tot 245.7
5092520-35 F	09/23/25	0750	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW-113	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 283724

Field data collected by: Travis Smead Date (mm/dd/yy) 09/23/25 Time (24 hr) 0750

pH 6.72 Cond (~~umhe~~) MS 1.92 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 17.84 or (oF) ____ Static Water Level ____ DO (mg/L) 0.05 Turb. (NTU) 34.1

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Smead	[signature]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-37 B	09.23.25	1025	Plastic 500mL pH<2 w/HNO3	1	MW-114	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-37 C	09.23.25	1025	Plastic 500mL pH<2 w/H2SO4	1	MW-114	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-37 D	09.23.25	1025	CG 250mL pH<2 w/HCL	1	MW-114	g / c	Mercury Tot 245.7
5092520-37 E	09.23.25	1025	CG 250mL pH<2 w/HCL	1	MW-114	g / c	Mercury Tot 245.7
5092520-37 F	09.23.25	1026	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	MW-114	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09.23.25 Time (24 hr) 1025

pH 6.90 Cond (~~umho~~) MS 0.948 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 19.09 or (oF) _____ Static Water Level _____ DO (mg/L) 0.00 Turb. (NTU) 4.12

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	Kim Dee	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

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Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-37 G	09.23.25	1026	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-114	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-37 H	09.23.25	1025	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	MW-114	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-37 I	09.23.25	1025	Plastic 1L pH<2 w/HNO3 Sub	1	MW-114	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-37 J	09.23.25	1025	AG 250mL pH<2 w/H2SO4	1	MW-114	g / c	TOC
			Preservation Check: pH : ✓				
5092520-38 A	09.23.25	1025	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank MW-114	g / c	Mercury Tot 245.7 Field Blank
5092520-39 A	09.23.25	1025	Plastic 1L	1	Well Duplicate 1	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09.23.25 Time (24 hr) 1025

pH 12.90 Cond (~~umho~~ mS) 0.948 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 19.09 or (oF) ____ Static Water Level ____ DO (mg/L) 0.00 Turb. (NTU) 4.12

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[illegible]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Snead *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-39 B	09-23-25	0807	Plastic 500mL pH<2 w/HNO3	1	Well Duplicate 1	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-39 C	09-23-25	0807	Plastic 500mL pH<2 w/H2SO4	1	Well Duplicate 1	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-39 D	09-23-25	0807	CG 250mL pH<2 w/HCL	1	Well Duplicate 1	g / c	Mercury Tot 245.7
5092520-39 E	09-23-25	0807	CG 250mL pH<2 w/HCL	1	Well Duplicate 1	g / c	Mercury Tot 245.7
5092520-39 F	09-23-25	0807	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	Well Duplicate 1	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: 213724

Field data collected by: Travis Snead Date (mm/dd/yy) 09-23-25 Time (24 hr) 0807

pH 6.77 Cond (~~umho~~ mS) .437 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.65 or _____ (oF) _____ Static Water Level _____ DO (mg/L) .47 Turb. (NTU) 61.6

Flow: _____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Snead	[illegible]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: Ky

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-39 G	09·23·25	0807	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Well Duplicate 1	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-39 H	09·23·25	0807	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Well Duplicate 1	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-39 I	09·23·25	0807	Plastic 1L pH<2 w/HNO3 Sub	1	Well Duplicate 1	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-39 J	09·23·25	0807	AG 250mL pH<2 w/H2SO4	1	Well Duplicate 1	g / c	TOC
			Preservation Check: pH : ✓				
5092520-40 A	09·23·25	0807	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank Well Dup-1	g / c	Mercury Tot 245.7 Field Blank
5092520-41 A	09·23·25	0807	Plastic 1L	1	Well Duplicate 2	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: KGD pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09·23·25 Time (24 hr) 0807

pH 6.77 Cond (~~umho~~) mS .437 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 18.65 or (oF) _____ Static Water Level _____ DO (mg/L) .47 Turb. (NTU) 61.6

Flow: _____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
		9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Smead *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-41 B	09.24.25	1158	Plastic 500mL pH<2 w/HNO3	1	Well Duplicate 2	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-41 C	09.24.25	1158	Plastic 500mL pH<2 w/H2SO4	1	Well Duplicate 2	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-41 D	09.24.25	1158	CG 250mL pH<2 w/HCL	1	Well Duplicate 2	g / c	Mercury Tot 245.7
5092520-41 E	09.24.25	1158	CG 250mL pH<2 w/HCL	1	Well Duplicate 2	g / c	Mercury Tot 245.7
5092520-41 F	09.24.25	1158	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	Well Duplicate 2	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KED pH Paper Lot #: D13724

Field data collected by: Travis Smead Date (mm/dd/yy) 09.24.25 Time (24 hr) 1158

pH 6.47 Cond (mS/cm) 1.87 Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) 20.09 or (oF) _____ Static Water Level _____ DO (mg/L) 0 Turb. (NTU) 69.8

Flow: _____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Smead	KED	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304
PO#:
Quote#

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Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No

Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

Effluent: Start Date ____ Start time ____ End Date ____ End Time ____ Temp (oC) ____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-41 G	09-24-25	1158	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Well Duplicate 2	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-41 H	09-24-25	1158	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Well Duplicate 2	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-41 I	09-24-25	1158	Plastic 1L pH<2 w/HNO3 Sub	1	Well Duplicate 2	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-41 J	09-24-25	1158	AG 250mL pH<2 w/H2SO4	1	Well Duplicate 2	g / c	TOC
			Preservation Check: pH : ✓				
5092520-42 A	09-24-25	1158	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank Well Dup-2	g / c	Mercury Tot 245.7 Field Blank
5092520-43 A	09-24-25	1158	Plastic 1L	1	Field Blank	g / c	Fluoride 300.0 Conductivity (Lab) TDS Sulfate 300.0 Alkalinity Total Chloride 300.0

Preservation Check Performed by: ICED pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09-24-25 Time (24 hr) 1158

pH 6.47 Cond (~~umho~~ mS) 1.87 Res Cl (mg/L) ____ Tot Cl (mg/L) ____ Free Cl (mg/L) ____

Temp (oC) 20.09 or (oF) ____ Static Water Level ____ DO (mg/L) 0 Turb. (NTU) 69.8

Flow: ____ ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	[illegible]	9-25-25	1130

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Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#: _____
Quote# _____

Please Print Legibly

Collected by (Signature): _____ *Required information*

Compliance Monitoring? Yes ✓ No ___

Samples Chlorinated? Yes ___ No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-43 B	09/24/25	0815	Plastic 500mL pH<2 w/HNO3	1	Field Blank	g / c	Chromium Tot 6020 Beryllium Tot 6020 Cobalt Tot 6020 Calcium Tot 6010B Boron Tot 6010B Magnesium Tot 6010B Barium Tot 6020 Arsenic Tot 6020 Antimony Tot 6020 Cadmium Tot 6020 Copper Tot 6020 Iron Tot 6010B Lithium Tot 6020 Zinc Tot 6020 Nickel Tot 6020
			Preservation Check: pH : ✓				
5092520-43 C	09/24/25	0815	Plastic 500mL pH<2 w/H2SO4	1	Field Blank	g / c	COD TOC
			Preservation Check: pH : ✓				
5092520-43 D	09/24/25	0815	CG 250mL pH<2 w/HCL	1	Field Blank	g / c	Mercury Tot 245.7
5092520-43 E	09/24/25	0815	CG 250mL pH<2 w/HCL	1	Field Blank	g / c	Mercury Tot 245.7
5092520-43 F	09/24/25	0815	Plastic 1L pH<2 w/HNO3 Rad 226 Sub	1	Field Blank	g / c	Radium 226 (sub)
			Preservation Check: pH : ✓				

Preservation Check Performed by: KES pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09/24/25 Time (24 hr) 0815

pH _____ Cond (umho) _____ Res Cl (mg/L) _____ Tot Cl (mg/L) _____ Free Cl (mg/L) _____

Temp (oC) _____ or (oF) _____ Static Water Level _____ DO (mg/L) _____ Turb. (NTU) _____

Flow: _____ ☐MGD ☐CFS ☐g/min ☐GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed	KES	9-25-25	1130

☐ **PACE- Check here if trip charge applied to associated COC**

Printed: 9/3/2025 1:32:50PM

Pace Analytical Services LLC Kentucky
825 Industrial Road
P.O. Box 907
Madisonville, KY 42431

Chain of Custody

Scheduled for: 09/22/2025

Client: Big Rivers Electric Corporation Wilson Station

Project: Wilson Groundwater Wells 092-00004

Report To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

Phone: (270) 844-6000
PWS ID#:
State: KY

Invoice To:
Big Rivers Electric Corporation Wilson Station
Brian Edwards
PO Box 20015
Owensboro, KY 42304

PO#:
Quote#

Please Print Legibly

Collected by (Signature): Travis Sneed *required information*

Compliance Monitoring? Yes ✓ No
Samples Chlorinated? Yes No ✓

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date Start time End Date End Time Temp (oC)

Effluent: Start Date Start time End Date End Time Temp (oC)

LAB USE ONLY Workorder # 5092520 Sample ID#	*required information* Date (mm/dd/yy):	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
5092520-43 G	09/24/25	0815	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Field Blank	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-43 H	09/24/25	0815	Plastic 1L pH<2 w/HNO3 Rad 228 Sub	1	Field Blank	g / c	Radium 228 (sub)
			Preservation Check: pH : ✓				
5092520-43 I	09/24/25	0815	Plastic 1L pH<2 w/HNO3 Sub	1	Field Blank	g / c	Radium Total (sub)
			Preservation Check: pH : ✓				
5092520-43 J	09/24/25	0815	AG 250mL pH<2 w/H2SO4	1	Field Blank	g / c	TOC
			Preservation Check: pH : ✓				
5092520-44 A	09/24/25	0815	CG 250mL pH<2 w/HCl Field Blank	1	Mercury Field Blank	g / c	Mercury Tot 245.7 Field Blank

Thermometer Serial Number
230753815
240381205
Temperature 2.1 °C

Preservation Check Performed by: NED

pH Paper Lot #: 213724

Field data collected by: Travis Sneed Date (mm/dd/yy) 09/24/25 Time (24 hr) 0815

pH Cond (umho) Res Cl (mg/L) Tot Cl (mg/L) Free Cl (mg/L)

Temp (oC) or (oF) Static Water Level DO (mg/L) Turb. (NTU)

Flow: ☐MGD ☐CFS ☐g/min ☐ GPD

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
Travis Sneed		9-25-25	1130

☐ **PACE- Check here if trip charge applied to associated COC**

Printed: 9/3/2025 1:32:50PM

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 22, 2025

Rob Whittington
Pace Analytical Madisonville
825 Industrial Rd
Madisonville, KY 42431

RE: Project: 5092520
Pace Project No.: 30814691

Dear Rob Whittington:

Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,

Carla Cmar for
Mariah Barlow
mariah.barlow@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Mark Demoss, Pace Analytical Madisonville

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 5092520
Pace Project No.: 30814691

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 5092520
Pace Project No.: 30814691

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30814691001	**5092520-01 MW1**	Water	09/24/25 07:05	10/01/25 10:15
30814691002	**5092520-03 MW2**	Water	09/24/25 12:00	10/01/25 10:15
30814691003	**5092520-05 MW3**	Water	09/24/25 11:40	10/01/25 10:15
30814691004	**5092520-07 MW4**	Water	09/24/25 10:45	10/01/25 10:15
30814691005	**5092520-09 MW4D**	Water	09/23/25 09:25	10/01/25 10:15
30814691006	**5092520-11 MW5**	Water	09/24/25 07:40	10/01/25 10:15
30814691007	**5092520-11 MW5 MS**	Water	09/24/25 07:40	10/01/25 10:15
30814691008	**5092520-11 MW5 MSD**	Water	09/24/25 07:40	10/01/25 10:15
30814691009	**5092520-13 MW6**	Water	09/24/25 09:55	10/01/25 10:15
30814691010	**5092520-15 MW7**	Water	09/24/25 08:50	10/01/25 10:15
30814691011	**5092520-17 MW8**	Water	09/24/25 07:50	10/01/25 10:15
30814691012	**5092520-19 MW10**	Water	09/24/25 11:35	10/01/25 10:15
30814691013	**5092520-21 MW10D**	Water	09/23/25 11:00	10/01/25 10:15
30814691014	**5092520-23 MW102**	Water	09/23/25 11:50	10/01/25 10:15
30814691015	**5092520-25 MW104**	Water	09/23/25 09:30	10/01/25 10:15
30814691016	**5092520-27 MW105R**	Water	09/23/25 07:35	10/01/25 10:15
30814691017	**5092520-29 MW110**	Water	09/23/25 07:50	10/01/25 10:15
30814691018	**5092520-31 MW111**	Water	09/23/25 12:05	10/01/25 10:15
30814691019	**5092520-33 MW112**	Water	09/23/25 09:40	10/01/25 10:15
30814691020	**5092520-35 MW113**	Water	09/23/25 07:50	10/01/25 10:15
30814691021	**5092520-37 MW114**	Water	09/23/25 10:25	10/01/25 10:15
30814691022	**5092520-39 Well Duplicate 1**	Water	09/23/25 08:07	10/01/25 10:15
30814691023	**5092520-41 Well Duplicate 2**	Water	09/24/25 11:58	10/01/25 10:15
30814691024	**5092520-43 Field Blank**	Water	09/24/25 08:15	10/01/25 10:15

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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SAMPLE ANALYTE COUNT

Project: 5092520
Pace Project No.: 30814691

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30814691001	**5092520-01 MW1**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691002	**5092520-03 MW2**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691003	**5092520-05 MW3**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691004	**5092520-07 MW4**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691005	**5092520-09 MW4D**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691006	**5092520-11 MW5**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691007	**5092520-11 MW5 MS**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
30814691008	**5092520-11 MW5 MSD**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
30814691009	**5092520-13 MW6**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691010	**5092520-15 MW7**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691011	**5092520-17 MW8**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691012	**5092520-19 MW10**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691013	**5092520-21 MW10D**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

SAMPLE ANALYTE COUNT

Project: 5092520
Pace Project No.: 30814691

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30814691014	**5092520-23 MW102**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691015	**5092520-25 MW104**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691016	**5092520-27 MW105R**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691017	**5092520-29 MW110**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691018	**5092520-31 MW111**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691019	**5092520-33 MW112**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691020	**5092520-35 MW113**	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691021	**5092520-37 MW114**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691022	**5092520-39 Well Duplicate 1**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691023	**5092520-41 Well Duplicate 2**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30814691024	**5092520-43 Field Blank**	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

Sample: 5092520-01 MW1 **Lab ID: 30814691001** Collected: 09/24/25 07:05 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.236 ± 0.284 (0.434) C:NA T:90%**	pCi/L	10/17/25 15:18	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.83 ± 0.654 (1.01) C:74% T:83%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**2.07 ± 0.938 (1.44)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-03 MW2 **Lab ID: 30814691002** Collected: 09/24/25 12:00 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.227 ± 0.386 (0.681) C:NA T:94%**	pCi/L	10/17/25 15:18	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.983 ± 0.463 (0.788) C:71% T:87%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.21 ± 0.849 (1.47)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-05 MW3 **Lab ID: 30814691003** Collected: 09/24/25 11:40 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.104 ± 0.354 (0.783) C:NA T:93%**	pCi/L	10/17/25 15:18	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.812 ± 0.372 (0.599) C:80% T:85%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.812 ± 0.726 (1.38)**	pCi/L	10/21/25 10:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

Sample: 5092520-07 MW4 **Lab ID: 30814691004** Collected: 09/24/25 10:45 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.171 ± 0.580 (1.07) C:NA T:89%**	pCi/L	10/17/25 15:18	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.808 ± 0.381 (0.627) C:79% T:84%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.979 ± 0.961 (1.70)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-09 MW4D **Lab ID: 30814691005** Collected: 09/23/25 09:25 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.482 ± 0.451 (0.639) C:NA T:86%**	pCi/L	10/17/25 15:18	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.16 ± 0.493 (0.780) C:73% T:82%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.64 ± 0.944 (1.42)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-11 MW5 **Lab ID: 30814691006** Collected: 09/24/25 07:40 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.489 ± 0.364 (0.479) C:NA T:87%**	pCi/L	10/17/25 15:18	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.863 ± 0.417 (0.712) C:76% T:86%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.35 ± 0.781 (1.19)**	pCi/L	10/21/25 10:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

Sample: 5092520-11 MW5 MS **Lab ID: 30814691007** Collected: 09/24/25 07:40 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**99.01 %REC ± NA (NA) C:NA T:NA**	pCi/L	10/17/25 15:18	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**80.39 %REC ± NA (NA) C:NA T:NA**	pCi/L	10/15/25 11:49	15262-20-1	

Sample: 5092520-11 MW5 MSD **Lab ID: 30814691008** Collected: 09/24/25 07:40 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**93.07 %REC 6.19RPD ± NA (NA) C:NA T:NA**	pCi/L	10/17/25 15:31	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**80.44 %REC 0.06RPD ± NA (NA) C:NA T:NA**	pCi/L	10/15/25 11:49	15262-20-1	

Sample: 5092520-13 MW6 **Lab ID: 30814691009** Collected: 09/24/25 09:55 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.532 ± 0.471 (0.698) C:NA T:93%**	pCi/L	10/17/25 15:31	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.789 ± 0.444 (0.800) C:74% T:80%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.32 ± 0.915 (1.50)**	pCi/L	10/21/25 10:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

Sample: 5092520-15 MW7 **Lab ID: 30814691010** Collected: 09/24/25 08:50 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.348 ± 0.261 (0.135) C:NA T:99%**	pCi/L	10/17/25 15:31	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.45 ± 0.574 (0.933) C:78% T:84%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.80 ± 0.835 (1.07)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-17 MW8 **Lab ID: 30814691011** Collected: 09/24/25 07:50 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.397 ± 0.586 (0.998) C:NA T:96%**	pCi/L	10/17/25 15:31	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.98 ± 0.625 (0.849) C:80% T:84%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**2.38 ± 1.21 (1.85)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-19 MW10 **Lab ID: 30814691012** Collected: 09/24/25 11:35 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.193 ± 0.300 (0.519) C:NA T:95%**	pCi/L	10/17/25 15:31	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.14 ± 0.538 (0.937) C:75% T:79%**	pCi/L	10/15/25 11:49	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.33 ± 0.838 (1.46)**	pCi/L	10/21/25 10:43	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

Sample: 5092520-21 MW10D **Lab ID: 30814691013** Collected: 09/23/25 11:00 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.262 ± 0.273 (0.385) C:NA T:91%**	pCi/L	10/17/25 15:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.42 ± 0.744 (0.981) C:75% T:81%**	pCi/L	10/15/25 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.68 ± 1.02 (1.37)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-23 MW102 **Lab ID: 30814691014** Collected: 09/23/25 11:50 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.161 ± 0.245 (0.145) C:NA T:93%**	pCi/L	10/17/25 15:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.886 ± 0.415 (0.679) C:78% T:78%**	pCi/L	10/15/25 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.05 ± 0.660 (0.824)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-25 MW104 **Lab ID: 30814691015** Collected: 09/23/25 09:30 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**1.00 ± 0.504 (0.170) C:NA T:86%**	pCi/L	10/17/25 15:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.54 ± 0.496 (0.613) C:79% T:82%**	pCi/L	10/15/25 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.54 ± 1.000 (0.783)**	pCi/L	10/21/25 10:43	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

Sample: 5092520-27 MW105R **Lab ID: 30814691016** Collected: 09/23/25 07:35 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.34 ± 0.578 (0.410) C:NA T:95%**	pCi/L	10/17/25 15:43	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**2.34 ± 0.643 (0.658) C:80% T:80%**	pCi/L	10/15/25 11:50	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**3.68 ± 1.22 (1.07)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-29 MW110 **Lab ID: 30814691017** Collected: 09/23/25 07:50 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.29 ± 0.721 (0.936) C:NA T:93%**	pCi/L	10/17/25 15:43	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.96 ± 0.630 (0.790) C:61% T:86%**	pCi/L	10/15/25 11:50	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**3.25 ± 1.35 (1.73)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-31 MW111 **Lab ID: 30814691018** Collected: 09/23/25 12:05 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.106 ± 0.466 (0.886) C:NA T:94%**	pCi/L	10/17/25 15:43	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**2.20 ± 0.904 (1.50) C:49% T:83%**	pCi/L	10/15/25 11:50	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**2.31 ± 1.37 (2.39)**	pCi/L	10/21/25 10:43	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

Sample: 5092520-33 MW112 **Lab ID: 30814691019** Collected: 09/23/25 09:40 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.262 ± 0.273 (0.385) C:NA T:95%**	pCi/L	10/17/25 15:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.871 ± 0.466 (0.853) C:76% T:88%**	pCi/L	10/15/25 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.13 ± 0.739 (1.24)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-35 MW113 **Lab ID: 30814691020** Collected: 09/23/25 07:50 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**1.42 ± 0.587 (0.472) C:NA T:96%**	pCi/L	10/17/25 15:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.35 ± 0.646 (0.687) C:72% T:88%**	pCi/L	10/15/25 11:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.77 ± 1.23 (1.16)**	pCi/L	10/21/25 10:43	7440-14-4	

Sample: 5092520-37 MW114 **Lab ID: 30814691021** Collected: 09/23/25 10:25 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.687 ± 0.397 (0.155) C:NA T:90%**	pCi/L	10/16/25 15:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**4.43 ± 1.04 (0.916) C:85% T:85%**	pCi/L	10/15/25 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**5.12 ± 1.44 (1.07)**	pCi/L	10/16/25 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

Sample: 5092520-39 Well Duplicate 1 **Lab ID: 30814691022** Collected: 09/23/25 08:07 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.06 ± 0.581 (0.670) C:NA T:92%**	pCi/L	10/16/25 15:27	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.61 ± 0.611 (0.955) C:75% T:85%**	pCi/L	10/15/25 14:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**2.67 ± 1.19 (1.63)**	pCi/L	10/16/25 16:49	7440-14-4	

Sample: 5092520-41 Well Duplicate 2 **Lab ID: 30814691023** Collected: 09/24/25 11:58 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.179 ± 0.389 (0.898) C:NA T:89%**	pCi/L	10/16/25 15:27	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.720 ± 0.489 (0.949) C:76% T:85%**	pCi/L	10/15/25 14:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.720 ± 0.878 (1.85)**	pCi/L	10/16/25 16:49	7440-14-4	

Sample: 5092520-43 Field Blank **Lab ID: 30814691024** Collected: 09/24/25 08:15 Received: 10/01/25 10:15 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • The sampler's name and/or signature was not listed on the client COC; client notified via SAF.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.219 ± 0.251 (0.148) C:NA T:92%**	pCi/L	10/16/25 15:27	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.490 ± 0.531 (1.11) C:74% T:79%**	pCi/L	10/15/25 14:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.709 ± 0.782 (1.26)**	pCi/L	10/16/25 16:49	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

QC Batch: 774822 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30814691001, 30814691002, 30814691003, 30814691004, 30814691005, 30814691006, 30814691007, 30814691008, 30814691009, 30814691010, 30814691011, 30814691012, 30814691013, 30814691014, 30814691015, 30814691016, 30814691017, 30814691018, 30814691019, 30814691020

METHOD BLANK: 3778243 Matrix: Water
Associated Lab Samples: 30814691001, 30814691002, 30814691003, 30814691004, 30814691005, 30814691006, 30814691007, 30814691008, 30814691009, 30814691010, 30814691011, 30814691012, 30814691013, 30814691014, 30814691015, 30814691016, 30814691017, 30814691018, 30814691019, 30814691020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.969 ± 0.424 (0.690) C:75% T:92%	pCi/L	10/15/25 11:49	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

QC Batch: 774821 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30814691001, 30814691002, 30814691003, 30814691004, 30814691005, 30814691006, 30814691007, 30814691008, 30814691009, 30814691010, 30814691011, 30814691012, 30814691013, 30814691014, 30814691015, 30814691016, 30814691017, 30814691018, 30814691019, 30814691020

METHOD BLANK: 3778240 Matrix: Water
Associated Lab Samples: 30814691001, 30814691002, 30814691003, 30814691004, 30814691005, 30814691006, 30814691007, 30814691008, 30814691009, 30814691010, 30814691011, 30814691012, 30814691013, 30814691014, 30814691015, 30814691016, 30814691017, 30814691018, 30814691019, 30814691020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0836 ± 0.191 (0.308) C:NA T:94%	pCi/L	10/17/25 15:18	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

QC Batch: 774823 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30814691021, 30814691022, 30814691023, 30814691024

METHOD BLANK: 3778248 Matrix: Water
Associated Lab Samples: 30814691021, 30814691022, 30814691023, 30814691024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0508 ± 0.299 (0.610) C:NA T:86%	pCi/L	10/16/25 14:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 5092520
Pace Project No.: 30814691

QC Batch: 774824 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30814691021, 30814691022, 30814691023, 30814691024

METHOD BLANK: 3778250 Matrix: Water
Associated Lab Samples: 30814691021, 30814691022, 30814691023, 30814691024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.248 ± 0.345 (0.737) C:77% T:78%	pCi/L	10/15/25 14:51	

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QUALIFIERS

Project: 5092520
Pace Project No.: 30814691

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5092520
Pace Project No.: 30814691

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30814691001	**5092520-01 MW1**	EPA 903.1	774821		
30814691002	**5092520-03 MW2**	EPA 903.1	774821		
30814691003	**5092520-05 MW3**	EPA 903.1	774821		
30814691004	**5092520-07 MW4**	EPA 903.1	774821		
30814691005	**5092520-09 MW4D**	EPA 903.1	774821		
30814691006	**5092520-11 MW5**	EPA 903.1	774821		
30814691007	**5092520-11 MW5 MS**	EPA 903.1	774821		
30814691008	**5092520-11 MW5 MSD**	EPA 903.1	774821		
30814691009	**5092520-13 MW6**	EPA 903.1	774821		
30814691010	**5092520-15 MW7**	EPA 903.1	774821		
30814691011	**5092520-17 MW8**	EPA 903.1	774821		
30814691012	**5092520-19 MW10**	EPA 903.1	774821		
30814691013	**5092520-21 MW10D**	EPA 903.1	774821		
30814691014	**5092520-23 MW102**	EPA 903.1	774821		
30814691015	**5092520-25 MW104**	EPA 903.1	774821		
30814691016	**5092520-27 MW105R**	EPA 903.1	774821		
30814691017	**5092520-29 MW110**	EPA 903.1	774821		
30814691018	**5092520-31 MW111**	EPA 903.1	774821		
30814691019	**5092520-33 MW112**	EPA 903.1	774821		
30814691020	**5092520-35 MW113**	EPA 903.1	774821		
30814691021	**5092520-37 MW114**	EPA 903.1	774823		
30814691022	**5092520-39 Well Duplicate 1**	EPA 903.1	774823		
30814691023	**5092520-41 Well Duplicate 2**	EPA 903.1	774823		
30814691024	**5092520-43 Field Blank**	EPA 903.1	774823		
30814691001	**5092520-01 MW1**	EPA 904.0	774822		
30814691002	**5092520-03 MW2**	EPA 904.0	774822		
30814691003	**5092520-05 MW3**	EPA 904.0	774822		
30814691004	**5092520-07 MW4**	EPA 904.0	774822		
30814691005	**5092520-09 MW4D**	EPA 904.0	774822		
30814691006	**5092520-11 MW5**	EPA 904.0	774822		
30814691007	**5092520-11 MW5 MS**	EPA 904.0	774822		
30814691008	**5092520-11 MW5 MSD**	EPA 904.0	774822		
30814691009	**5092520-13 MW6**	EPA 904.0	774822		
30814691010	**5092520-15 MW7**	EPA 904.0	774822		
30814691011	**5092520-17 MW8**	EPA 904.0	774822		
30814691012	**5092520-19 MW10**	EPA 904.0	774822		
30814691013	**5092520-21 MW10D**	EPA 904.0	774822		
30814691014	**5092520-23 MW102**	EPA 904.0	774822		
30814691015	**5092520-25 MW104**	EPA 904.0	774822		
30814691016	**5092520-27 MW105R**	EPA 904.0	774822		
30814691017	**5092520-29 MW110**	EPA 904.0	774822		
30814691018	**5092520-31 MW111**	EPA 904.0	774822		
30814691019	**5092520-33 MW112**	EPA 904.0	774822		
30814691020	**5092520-35 MW113**	EPA 904.0	774822		
30814691021	**5092520-37 MW114**	EPA 904.0	774824		
30814691022	**5092520-39 Well Duplicate 1**	EPA 904.0	774824		
30814691023	**5092520-41 Well Duplicate 2**	EPA 904.0	774824		

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5092520
Pace Project No.: 30814691

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30814691024	**5092520-43 Field Blank**	EPA 904.0	774824		
30814691001	**5092520-01 MW1**	Total Radium Calculation	778639		
30814691002	**5092520-03 MW2**	Total Radium Calculation	778639		
30814691003	**5092520-05 MW3**	Total Radium Calculation	778639		
30814691004	**5092520-07 MW4**	Total Radium Calculation	778639		
30814691005	**5092520-09 MW4D**	Total Radium Calculation	778639		
30814691006	**5092520-11 MW5**	Total Radium Calculation	778639		
30814691009	**5092520-13 MW6**	Total Radium Calculation	778639		
30814691010	**5092520-15 MW7**	Total Radium Calculation	778639		
30814691011	**5092520-17 MW8**	Total Radium Calculation	778639		
30814691012	**5092520-19 MW10**	Total Radium Calculation	778639		
30814691013	**5092520-21 MW10D**	Total Radium Calculation	778639		
30814691014	**5092520-23 MW102**	Total Radium Calculation	778639		
30814691015	**5092520-25 MW104**	Total Radium Calculation	778639		
30814691016	**5092520-27 MW105R**	Total Radium Calculation	778639		
30814691017	**5092520-29 MW110**	Total Radium Calculation	778639		
30814691018	**5092520-31 MW111**	Total Radium Calculation	778639		
30814691019	**5092520-33 MW112**	Total Radium Calculation	778639		
30814691020	**5092520-35 MW113**	Total Radium Calculation	778639		
30814691021	**5092520-37 MW114**	Total Radium Calculation	777929		
30814691022	**5092520-39 Well Duplicate 1**	Total Radium Calculation	777929		
30814691023	**5092520-41 Well Duplicate 2**	Total Radium Calculation	777929		
30814691024	**5092520-43 Field Blank**	Total Radium Calculation	777929		

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SUBCONTRACT ORI

Pace Analytical Services, LLC

5092520

WO# : 30814691

30814691

SENDING LABORATORY:

Pace Analytical Services, LLC Kentucky
PO BOX 907
Madisonville, KY 42431
Phone: (270) 821-7375
Fax: -
Project Manager: Rob Whittington

RECEIVING LABORATORY:

Pace Analytical Services LLC Greensburg PA
1638 Rosey Town Rd Suite 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5615
Fax:

Received by Pace Greensburg
Therm ID 25 Corr Factor +/- -0.(
Receipt Temp SEE SCUR
Corrected Temp SEE SCUR
Correct Preservation (Y) N

Analysis	Expires	Laboratory ID	Comments
Sample ID: 5092520-01 Water	**Sampled:09/24/2025 07:05**	**Specific Method**	
Radium 228 (sub)	03/23/2026 07:05	EPA 904.0 Radium Sum C	MW1 001
Radium Total (sub)	03/23/2026 07:05	EPA 904.0 Radium Sum C	
Radium 226 (sub)	03/23/2026 07:05	EPA 903.1	

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

Sample ID: 5092520-03 Water	**Sampled:09/24/2025 12:00**	**Specific Method**	
Radium 226 (sub)	03/23/2026 12:00	EPA 903.1	MW2 002
Radium 228 (sub)	03/23/2026 12:00	EPA 904.0 Radium Sum C	
Radium Total (sub)	03/23/2026 12:00	EPA 904.0 Radium Sum C	

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

Sample ID: 5092520-05 Water	**Sampled:09/24/2025 11:40**	**Specific Method**	
Radium 228 (sub)	03/23/2026 11:40	EPA 904.0 Radium Sum C	MW3 003
Radium Total (sub)	03/23/2026 11:40	EPA 904.0 Radium Sum C	
Radium 226 (sub)	03/23/2026 11:40	EPA 903.1	

SAMPLE STATE OF ORIGIN KY **RUSH MULTIPLIER** 0

Released By	Date	Received By	Date
[signature]	9-30-25	Matthew Smith	10/1/25 10:15

Released By	Date	Received By	Date

SUBCONTRACT ORDER

Pace Analytical Services, LLC Ker

5092520

WO#: 30814691

PM: MAB Due Date: 10/22/25

CLIENT: PACE_44_MVKY

Analysis	Expires	Laboratory ID	Comments
Sample ID: 5092520-07 Water	**Sampled:09/24/2025 10:45**	**Specific Method**	
Radium 228 (sub)	03/23/2026 10:45	EPA 904.0 Radium Sum C	MW4 004
Radium Total (sub)	03/23/2026 10:45	EPA 904.0 Radium Sum C	
Radium 226 (sub)	03/23/2026 10:45	EPA 903.1	

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5092520-09 Water	**Sampled:09/23/2025 09:25**	**Specific Method**	
Radium 226 (sub)	03/22/2026 09:25	EPA 903.1	MW4D 005
Radium 228 (sub)	03/22/2026 09:25	EPA 904.0 Radium Sum C	
Radium Total (sub)	03/22/2026 09:25	EPA 904.0 Radium Sum C	

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5092520-11 Water	**Sampled:09/24/2025 07:40**	**Specific Method**	**MS MSD**	
Radium 226 (sub)	03/23/2026 07:40	EPA 903.1	MW5 MS/MSD	006
Radium 228 (sub)	03/23/2026 07:40	EPA 904.0 Radium Sum C		007
Radium Total (sub)	03/23/2026 07:40	EPA 904.0 Radium Sum C		008

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5092520-13 Water	**Sampled:09/24/2025 09:55**	**Specific Method**	
Radium 226 (sub)	03/23/2026 09:55	EPA 903.1	MW6
Radium 228 (sub)	03/23/2026 09:55	EPA 904.0 Radium Sum C	
Radium Total (sub)	03/23/2026 09:55	EPA 904.0 Radium Sum C	009

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Released By	Date	Received By	Date
[signature]	9-30-25	Matthew Smith	10/1/25 10:15
Released By	Date	Received By	Date

SUBCONTRACT ORDE

Pace Analytical Services, LLC

5092520

WO#: 30814691

PM: MAB Due Date: 10/22/25

CLIENT: PACE_44_MVKY

Analysis	Expires	Laboratory ID	Comments

Sample ID: 5092520-15 Water **Sampled:09/24/2025 08:50** **Specific Method**

Radium Total (sub)	03/23/2026 08:50	EPA 904.0 Radium Sum C
Radium 226 (sub)	03/23/2026 08:50	EPA 903.1
Radium 228 (sub)	03/23/2026 08:50	EPA 904.0 Radium Sum C

MW7 010

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5092520-17 Water **Sampled:09/24/2025 07:50** **Specific Method**

Radium Total (sub)	03/23/2026 07:50	EPA 904.0 Radium Sum C
Radium 226 (sub)	03/23/2026 07:50	EPA 903.1
Radium 228 (sub)	03/23/2026 07:50	EPA 904.0 Radium Sum C

MW8 011

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5092520-19 Water **Sampled:09/24/2025 11:35** **Specific Method**

Radium 226 (sub)	03/23/2026 11:35	EPA 903.1
Radium 228 (sub)	03/23/2026 11:35	EPA 904.0 Radium Sum C
Radium Total (sub)	03/23/2026 11:35	EPA 904.0 Radium Sum C

MW10 012

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5092520-21 Water **Sampled:09/23/2025 11:00** **Specific Method**

Radium 228 (sub)	03/22/2026 11:00	EPA 904.0 Radium Sum C
Radium 226 (sub)	03/22/2026 11:00	EPA 903.1
Radium Total (sub)	03/22/2026 11:00	EPA 904.0 Radium Sum C

MW10D 013

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Released By	Date	Received By	Date
[signature]	9-30-25	Matthew Smith	10/1/25 10:15
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Pace Analytical Services, LLC Kentu

5092520

WO#: 30814691

PM: MAB Due Date: 10/22/25

CLIENT: PACE_44_MVKY

Analysis	Expires	Laboratory ID
Sample ID: 5092520-23 Water	**Sampled:09/23/2025 11:50**	**Specific Method**
Radium 228 (sub)	03/22/2026 11:50	EPA 904.0 Radium Sum C
Radium Total (sub)	03/22/2026 11:50	EPA 904.0 Radium Sum C
Radium 226 (sub)	03/22/2026 11:50	EPA 903.1

MW102

014

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Analysis	Expires	Laboratory ID
Sample ID: 5092520-25 Water	**Sampled:09/23/2025 09:30**	**Specific Method**
Radium 226 (sub)	03/22/2026 09:30	EPA 903.1
Radium 228 (sub)	03/22/2026 09:30	EPA 904.0 Radium Sum C
Radium Total (sub)	03/22/2026 09:30	EPA 904.0 Radium Sum C

MW104

015

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Analysis	Expires	Laboratory ID
Sample ID: 5092520-27 Water	**Sampled:09/23/2025 07:35**	**Specific Method**
Radium 228 (sub)	03/22/2026 07:35	EPA 904.0 Radium Sum C
Radium Total (sub)	03/22/2026 07:35	EPA 904.0 Radium Sum C
Radium 226 (sub)	03/22/2026 07:35	EPA 903.1

MW105R

016

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Analysis	Expires	Laboratory ID
Sample ID: 5092520-29 Water	**Sampled:09/23/2025 07:50**	**Specific Method**
Radium 228 (sub)	03/22/2026 07:50	EPA 904.0 Radium Sum C
Radium Total (sub)	03/22/2026 07:50	EPA 904.0 Radium Sum C
Radium 226 (sub)	03/22/2026 07:50	EPA 903.1

MW110

017

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Released By	Date	Received By	Date
	9/30/25	Matthew Smith	10/1/25 10:15
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Pace Analytical Services, LLC Ken

5092520

WO#: 30814691

PM: MAB Due Date: 10/22/25

CLIENT: PACE_44_MVKY

Analysis	Expires	Laboratory ID

Sample ID: 5092520-31 Water **Sampled:09/23/2025 12:05** **Specific Method**

Radium 226 (sub)	03/22/2026 12:05	EPA 903.1
Radium 228 (sub)	03/22/2026 12:05	EPA 904.0 Radium Sum C
Radium Total (sub)	03/22/2026 12:05	EPA 904.0 Radium Sum C

MW111

018

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0

Sample ID: 5092520-33 Water **Sampled:09/23/2025 09:40** **Specific Method**

Radium 226 (sub)	03/22/2026 09:40	EPA 903.1
Radium 228 (sub)	03/22/2026 09:40	EPA 904.0 Radium Sum C
Radium Total (sub)	03/22/2026 09:40	EPA 904.0 Radium Sum C

MW112

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0 019

Sample ID: 5092520-35 Water **Sampled:09/23/2025 07:50** **Specific Method**

Radium 226 (sub)	03/22/2026 07:50	EPA 903.1
Radium 228 (sub)	03/22/2026 07:50	EPA 904.0 Radium Sum C
Radium Total (sub)	03/22/2026 07:50	EPA 904.0 Radium Sum C

MW113

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0 020

Sample ID: 5092520-37 Water **Sampled:09/23/2025 10:25** **Specific Method**

Radium Total (sub)	03/22/2026 10:25	EPA 904.0 Radium Sum C
Radium 226 (sub)	03/22/2026 10:25	EPA 903.1
Radium 228 (sub)	03/22/2026 10:25	EPA 904.0 Radium Sum C

MW114

SAMPLE STATE OF ORIGIN KY RUSH MULTIPLIER 0 021

Released By	Date	Received By	Date
[signature]	9-30-25	[signature]	10/1/25 10:15

SUBCONTRACT ORDER

Pace Analytical Services, LLC

5092520

WO# : 30814691

PM: MAB Due Date: 10/22/25

CLIENT: PACE_44_MVKY

Analysis	Expires	Laborato

Sample ID: 5092520-39 Water **Sampled:09/23/2025 08:07** **Specific Method**

Radium Total (sub)	03/22/2026 08:07	EPA 904.0 Radium Sum C
Radium 226 (sub)	03/22/2026 08:07	EPA 903.1
Radium 228 (sub)	03/22/2026 08:07	EPA 904.0 Radium Sum C

Well Duplicate 1

SAMPLE STATE OF ORIGIN KY

RUSH MULTIPLIER 0

022

Sample ID: 5092520-41 Water **Sampled:09/24/2025 11:58** **Specific Method**

Radium 226 (sub)	03/23/2026 11:58	EPA 903.1
Radium 228 (sub)	03/23/2026 11:58	EPA 904.0 Radium Sum C
Radium Total (sub)	03/23/2026 11:58	EPA 904.0 Radium Sum C

Well Duplicate 2

SAMPLE STATE OF ORIGIN KY

RUSH MULTIPLIER 0

023

Sample ID: 5092520-43 Water **Sampled:09/24/2025 08:15** **Specific Method**

Radium Total (sub)	03/23/2026 08:15	EPA 904.0 Radium Sum C
Radium 226 (sub)	03/23/2026 08:15	EPA 903.1
Radium 228 (sub)	03/23/2026 08:15	EPA 904.0 Radium Sum C

Field Blank

SAMPLE STATE OF ORIGIN KY

RUSH MULTIPLIER 0

024

Released By	Date	Received By	Date
[signature]	9-30-25	Matthew Smith	10/1/25 10:15

DC#_Title: ENV-FRM-GBUR-0088 v09_Sample Condition Upon Receipt-Greensburg

Effective Date: 06/24/2025

WO#: 30814691

PM: MAB Due Date: 10/22/25

CLIENT: PACE_44_MVKY

Client Name: Pace - KY Proje

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

Tracking Number: _____

Initial / Date

Examined By: PS 10/11/25

Labeled By: ES 10-1-25

Temped By: ES 10-1-25

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☐ No

Therm. Used: 25 Type of Ice: (Wet) Blue None

Cooler Temp: Observed Temp 0.4/8.2 °C Correction Factor: -0.1 °C Final Temp: 0.3/8.1 °C

Temp should be above freezing to 6°C 1.7/7.3/4.5 1.6/7.3/4.5

pH paper Lot# HC561196 D.P.D. Residual Chlorine Lot #

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:		✓		5.
-Includes date/time/ID Matrix: WT				No date/time on bottles
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dechlorination			✓	14:
Filtered volume received for dissolved tests: **Cr6+, Orthophosphate, DOC, Metals**			✓	15:
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, TOX, LL Hg, Radon, non-aqueous matrix	✓			16. PH<2
All containers meet method preservation requirements:	✓			Initial when completed: ES Date/Time of Preservation: Lot# of added Preservative:
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed: PS Date: 10/11/25 Survey Meter SN: 25014380

Comments: MS/MSD not listed on bottles, used 2X BPIN bottles for Samples 007 and 008 from MWS.

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client _____

Site _____

Page 1 of 2

Profile/EZ Login Number 11851

Notes _____

Sample Line Item	Matrix	Amber Glass					Plastic								Vials					Other									
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
001	WT						3																					
002							3																					
003							3																					
004							3																					
005							3																					
006							3																					
007							2																					
008							2																					
009							3																					
010							3																					
011							3																					
012							3																					

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug		
AG1S	1L amber glass H2SO4		
AG1H	1L amber glass HCl		
AG1T	1L amber glass NA Th		
BG	1L clear glass unprese		rved
AG	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG	250mL amber glass unpreserved	GN	General

WO#: 30814691

PM: MAB Due Date: 10/22/25

CLIENT: PACE_44_MVKY

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3B	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag

WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

Qualtrax ID: 55678

Client _____

Site _____

Page 2 of 2

Profile/EZ Login Number _____

Notes _____

Sample Line Item	Matrix	Amber Glass					Plastic								Vials					Other									
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
013	WT						3																						
014							3																						
015							3																						
016							3																						
017							3																						
018							3																						
019							3																						
020							3																						
021							3																						
022							3																						
023							3																						
024							3																						

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL [illegible] vial Na Thiosulfate
GJN	1 Gallon Jug		[illegible] ial HCl
AG1S	1L amber gl		[illegible] r
AG1H	1L amber gl		served
AG1T	1L amber gl		unpreserved
BG	1L clear glas		[illegible] ss unpreserved
AG	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG	250mL amber glass unpreserved	GN	General

WO#: 30814691
PM: MAB Due Date: 10/22/25
CLIENT: PACE_44_MVKY

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3B	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Klt Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag

WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

Quality Control Sample Performance Assessment

Pace Analytical
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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	TMY
Date:	10/7/2025
Batch ID:	87394
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3778240
MB concentration:	0.084
MB 2 Sigma CSU:	0.191
MB MDC:	0.308
MB Numerical Performance Indicator:	0.86
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS87394	LCSD87394
Count Date:	10/17/2025	
Spike I.D.:	25-038	
Spike Concentration (pCi/mL):	31.875	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.656	
Target Conc. (pCi/L, g, F)	4.858	
Uncertainty (Calculated):	0.228	
Result (pCi/L, g, F):	5.048	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.100	
Numerical Performance Indicator:	0.33	
Percent Recovery:	103.92%	
Status vs Numerical Indicator:	Pass	
Status vs Recovery:	N/A	
Upper % Recovery Limits:	133%	
Lower % Recovery Limits:	73%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	9/24/2025	
Sample I.D.	30814691006	
Sample MS I.D.	30814691007	
Sample MSD I.D.	30814691008	
Spike I.D.:	25-038	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	31.876	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.661	
MS Target Conc (pCi/L, g, F):	9.646	
MSD Aliquot (L, g, F):	0.657	
MSD Target Conc. (pCi/L, g, F):	9.708	
MS Spike Uncertainty (calculated):	0.453	
MSD Spike Uncertainty (calculated):	0.455	
Sample Result:	0.489	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.364	
Sample Matrix Spike Result:	10.040	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.764	
Sample Matrix Spike Duplicate Result:	9.524	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.689	
MS Numerical Performance Indicator:	-0.101	
MSD Numerical Performance Indicator:	-0.736	
MS Percent Recovery:	99.01%	
MSD Percent Recovery:	93.07%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	N/A	
MSD Status vs Recovery:	N/A	
MS/MSD Upper % Recovery Limits:	136%	
MS/MSD Lower % Recovery Limits:	71%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30814691006	
Sample MS I.D.	30814691007	
Sample MSD I.D.	30814691008	
Sample Matrix Spike Result:	10.040	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.764	
Sample Matrix Spike Duplicate Result	9.524	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.689	
Duplicate Numerical Performance Indicator:	0.414	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	6.19%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

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

Comments:

JMC 10.17.25

TY 10.17.25

Quality Control Sample Performance Assessment

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Test: Ra-226
Analyst: DSO
Date:
Batch ID: 87396
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3778248
MB concentration:	0.051
MB 2 Sigma CSU:	0.299
MB MDC:	0.610
MB Numerical Performance Indicator:	0.33
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87396	LCSD87396
Count Date:	10/16/2025	10/16/2025
Spike I.D.:	25-038	25-038
Spike Concentration (pCi/mL):	31.875	31.875
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.650	0.651
Target Conc. (pCi/L, g, F):	4.901	4.899
Uncertainty (Calculated):	0.230	0.230
Result (pCi/L, g, F):	5.990	5.396
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.288	1.171
Numerical Performance Indicator:	1.63	0.82
Percent Recovery:	122.24%	110.14%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS87396	Enter Duplicate sample IDs if other than LCS/LCSD in the space below
Duplicate Sample I.D.	LCSD87396	
Sample Result (pCi/L, g, F):	5.990	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.288	
Sample Duplicate Result (pCi/L, g, F):	5.396	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.171	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.670	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.41%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

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

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

Comments:

ttnc 10.6.25 DO 10/16/25

Quality Control Sample Performance Assessment

Pace Analytical
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Test:	Ra-228
Analyst:	VAL
Date:	10/9/2025
Worklist:	87395
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3778243
MB concentration:	0.969
MB 2 Sigma CSU:	0.424
MB MDC:	0.690
MB Numerical Performance Indicator:	4.48
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS87395	LCSD87395
Count Date:	10/15/2025	
Spike I.D.:	23-043	
Decay Corrected Spike Concentration (pCi/mL):	30.972	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.816	
Target Conc. (pCi/L, g, F):	3.795	
Uncertainty (Calculated):	0.186	
Result (pCi/L, g, F):	3.535	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.827	
Numerical Performance Indicator:	-0.60	
Percent Recovery:	93.16%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	9/24/2025	
Sample I.D.	30814691006	
Sample MS I.D.	30814691007	
Sample MSD I.D.	30814691008	
Spike I.D.:	23-043	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	31.189	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.806	
MS Target Conc.(pCi/L, g, F):	7.741	
MSD Aliquot (L, g, F):	0.819	
MSD Target Conc. (pCi/L, g, F):	7.614	
MS Spike Uncertainty (calculated):	0.379	
MSD Spike Uncertainty (calculated):	0.373	
Sample Result:	0.863	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.417	
Sample Matrix Spike Result:	7.086	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.451	
Sample Matrix Spike Duplicate Result:	6.987	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.437	
MS Numerical Performance Indicator:	-1.912	
MSD Numerical Performance Indicator:	-1.893	
MS Percent Recovery:	80.39%	
MSD Percent Recovery:	80.44%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	30814691006
Sample MS I.D.	30814691007
Sample MSD I.D.	30814691008
Sample Matrix Spike Result:	7.086
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.451
Sample Matrix Spike Duplicate Result:	6.987
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.437
Duplicate Numerical Performance Indicator:	0.094
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	0.06%
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass
MS/ MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

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

VAL
10/17/25

Quality Control Sample Performance Assessment

Pace Analytical
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Test:	Ra-228
Analyst:	JJS1
Date:	10/8/2025
Worklist:	87397
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3778250
MB concentration:	0.248
MB 2 Sigma CSU:	0.345
MB MDC:	0.737
MB Numerical Performance Indicator:	1.41
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS87397	LCSD87397
Count Date:	10/15/2025	10/15/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	30.970	30.970
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.825	0.823
Target Conc. (pCi/L, g, F):	3.752	3.765
Uncertainty (Calculated):	0.184	0.184
Result (pCi/L, g, F):	3.622	5.022
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.898	1.149
Numerical Performance Indicator:	-0.28	2.12
Percent Recovery:	96.52%	133.39%
Stalus vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS87397	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87397	
Sample Result (pCi/L, g, F):	3.622	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.898	
Sample Duplicate Result (pCi/L, g, F):	5.022	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.149	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.882	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	32.07%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

VAL
10/16/25

Appendix E – Data Validation

Memorandum

Date: June 23, 2025

To: Christopher Hoglund

From: Omkar Parab

Re: Quality Assurance/Quality Control (QA/QC) Review of Analytical Data
1H – 2025 Sampling Event (April 2025)
BREC Wilson, Ohio County, Kentucky
Project No. 185747

Groundwater samples were collected at the BREC Wilson Landfill Site in Ohio County, Kentucky, on April 28 and 29, 2025. The samples were analyzed by Pace Analytical Services of Madisonville, Kentucky (Pace Madisonville) and Pace Analytical of Greensburg, Pennsylvania (Pace Greensburg) for one or more of the following parameters:

Parameter	Analytical Method	Laboratory
Metals	SW846 6010 B SW846 6020 A	Pace - Madisonville
Mercury	EPA 245.7 REV 2	
Total Dissolved Solids (TDS)	2540 C-2015	
Anions Chloride, Fluoride, Sulfate	EPA 300.0 REV 2.1	
Total Organic Carbon (TOC)	5310 C-2014	
Alkalinity Bicarbonate/carbonate alkalinity as CaCO3 Total alkalinity	2320 B-2011	
Hardness Calculation as CaCO3	2340 B-1997	
Specific Conductance	2510 B-2011	
Chemical Oxygen Demand (COD)	HACH Method 8000	
Radium-226 Radium-228 *total calculated from radium-226 + radium-228 analyses.	EPA 903.1 EPA 904.0 Total Radium by calculation	Pace - Greensburg

The QA/QC results in association with the samples collected were examined for any method-specific requirements. Data qualifiers, when appropriate, were added to the data as recommended in the United States Environmental Protection Agency's (USEPA's) *National Functional Guidelines for Inorganic Superfund Methods Data Review* (NFGI, 2020). The QA/QC review results are discussed below, and the qualifiers added during this review are summarized in Table 1.

1. Chain-of-Custody (COC) –The relinquished and received signatures, times, and dates were present on the COCs for all samples sent from the field to Pace Madisonville. For samples sent from Pace Madisonville to Pace Greensburg, the lab noted that for sample MW5, the sample bottles were not labeled for MS/MSD.

Pace-Greensburg also noted that no date/time were noted on the bottles. Sample information was obtained from the primary COCs sent from the field to Pace Madisonville. No qualifiers were added based on these laboratory notes.

2. Requested Analyses Completed – All analyses were completed as requested.

3. Holding Times – All samples/analyses were completed within their recommended holding time.

4. Sample Preservation – All samples sent to Pace Madisonville were received at <6 degrees Celsius (°C), and none were frozen. The radium samples sent to Pace Greensburg did not require thermal preservation. No data qualifiers were necessary.

5. Field Blank – Field blanks assess the ambient air conditions at the site at the time of sampling. For this review, the field blank was collected at MW2 and was associated with this well. The following field blank detections were noted during this review:

   - Specific conductance was detected in the ambient air sample Field Blank sample. The specific conductance result in the associated sample MW2 was greater than five times the field blank detection; hence, no qualifiers were required.

   - TOC yielded a low-level detection (J-flagged) in the ambient air Field Blank sample. The TOC result in the associated sample MW2 was greater than five times the field blank detection; hence, no qualifiers were required.

   - Mercury was detected in the ambient air sample Field Blank. Mercury was not detected in the associated sample MW2; hence, no qualifiers were required.

   - Zinc yielded a low-level detection (J-flagged) in the ambient air field blank sample. Associated sample MW2 yielded a low-level (J-flagged) zinc detection; therefore, the noted sample was qualified as non-detect (JU).

   - Radium 226, radium 228, and total radium detections were reported in ambient air sample Field Blank. For this blank review, estimated (J) qualifiers (rather than non-detect qualifiers) were added to the associated sample due to the uncertainty associated with these analytes.

     All radium results for MW2 were qualified as estimated (J) since they were less than five times the respective field blank concentration. This qualification was also applied based on the uncertainty factor that could also result in a concentration less than five times said field blank concentration.

6. Method Blanks – Method blanks assess the potential for cross-contamination during the sample preparation and/or analysis. The following method blank detections were noted during this review:

   - Zinc yielded a low-level detection (J-flagged) in the laboratory blank in QC batch BED3276. Associated samples Well Duplicate 1 and Well Duplicate 2 yielded low-level (J-flagged) zinc detections; therefore, the noted samples were qualified as non-detect (JU).

   - Iron yielded a low-level detection (J-flagged) in the laboratory blank in QC batch BEE0060. All the associated samples had iron detections greater than the reporting limit and greater than five times the method blank concentration; hence, no qualifiers were required.

   - Radium: Radium-226 and radium-228 were detected in all method blanks. Because of the uncertainty associated with radium results, the review criteria were slightly altered to account for this. For any associated radium-226 or radium-228 detection less than five times the corresponding method blank concentration plus its uncertainty, the respective result was qualified as estimated (J). Additionally, because this result was used in the calculation to report total radium, the total radium result for said sample was also qualified as estimated (J). Based on this, all samples (except the field blank) were qualified and estimated (J) for the radium fractions as part of this method blank review. The field blank was not qualified since blanks are not typically qualified based on other blanks. Therefore, the field blank was excluded from this method blank review qualification.

7. Laboratory Control Samples (LCS) – The LCS contains a matrix similar to that of the sample that has been spiked with known concentrations of target analytes. The LCS is prepared and analyzed by the same method as the samples. As a measure of analytical accuracy, the results of the LCS are compared against the known analyte concentrations in the spike to determine percent recovery (REC). The purpose of the LCS is to determine the performance of the laboratory with respect to analyte recovery, independent of field sample matrix interference.

   All LCS RECs were within their respective QC limits, except for the following:

   - The LCS REC was above the QC limit for zinc in QC batch BED3276. Since the associated samples Well Duplicate 1 and Well Duplicate 2 were previously qualified for method blank detection, no further qualification was required.

8. Matrix Spike/Matrix Spike Duplicates (MS/MSD) – MS/MSDs are typically run for organic and inorganic analyses. A sample is split into three portions (original, MS and MSD), and a known amount of a target analyte is added (spiked) to two portions (MS and MSD) of the sample. The results of these two portions are compared with each other for reproducibility using the relative percent difference (RPD). They are also compared against the unspiked portion of the sample for

REC of the spike. For one or more MS/MSDs, the lab could not calculate a REC and no result was reported. Additionally, for several of the metals, there was one or more MS/MSDs performed on a particular site-specific sample. Qualification for these instances was based on professional judgment. The following site-specific MS/MSD results were outside their respective control limits and qualified as noted (see also Table 1 for all qualifications added).

- MS/MSD RECs performed on sample MW5:

  The MS/MSD spike amounts for boron, calcium, magnesium, and sodium were less than ¼ the respective concentration for the noted parent sample. Additionally, the lab performed a post-digestive spike (PDS) on this same parent sample. As such, no conclusion could be made for this MS/MSD for these analytes. The associated LCS was within limits and no further actions were necessary. No qualifiers were added based on the MS/MSD or PDS for these metals.

  The MS and/or MSD RECs for lithium, antimony, and zinc were above their control limits. Lithium and zinc detections in the spiked parent sample were qualified as estimated bias high (J+). Antimony was non-detect in the spiked parent sample, and no qualifier was required.

  The MS RECs for mercury were below the control limits for both samples reported. Additionally, the MS/MSD RPDs were above the control limit. The spiked parent sample was non-detect for mercury and was qualified as estimated at the reporting limit (UJ).

- MS/MSD RECs performed on sample MW-10D:

  The MS/MSD RECs for molybdenum, antimony, cobalt, lithium, and zinc were above the control limits. Additionally, the lab performed a PDS on this same parent sample. The molybdenum, cobalt, lithium, and zinc detections in the spiked parent sample were qualified as estimated bias high (J+). The spiked parent sample was non-detect for antimony and no qualifiers were added based on this MS/MSD for this metal.

  The MS/MSD RECs for boron, calcium, iron and sodium were above the control limits. The spike amount did not meet the ¼ criteria, and no conclusion could be made. No qualifiers were added based on this MS/MSD for these metals.

- MS/MSD RECs performed on sample MW2:

  The MS/MSD RECs for mercury were below the control limits. The spiked parent sample was non-detect for mercury and was qualified as estimated at the reporting limit (UJ).

- MS/MSD RECs performed on sample MW-113:

  The two MS RECs reported for mercury were below the control limits. The spiked parent sample was non-detect for mercury and was qualified as estimated at the reporting limit (UJ).

- MS/MSD RECs performed on sample MW-105R:

  The two MS RECs reported for mercury were below the control limits. The spiked parent sample was non-detect for mercury and was qualified as estimated at the reporting limit (UJ).

- MS/MSD RECs performed on sample Well Duplicate 2:

  The two reported MS samples yielded RECs below the control limits, and the MS/MSD RPDs were above the control limit for mercury. The spiked parent sample was non-detect for mercury and was qualified as estimated at the reporting limit (UJ). Because this was a field duplicate collected at MW3, it was also qualified estimated at the reporting limit (UJ) for this data point.

  The MS REC was below the control limits for total alkalinity. The spike amount did not meet the ¼ criteria, and no conclusion could be made, and no qualifiers were added.

- MS/MSD RECs performed on sample MW-112:

  MS REC was below the control limits for total alkalinity . The spike amount did not meet the ¼ criteria, and no conclusion could be made, and no qualifiers were added.

All other site-specific MS/MSD RECs and/or RPDs were within their respective QC limits.

9. Laboratory Duplicates – Laboratory duplicates were performed to evaluate analytical precision between samples when an MS/MSD may not be appropriate. Only project-specific laboratory duplicates were compared and used for qualifications.

   All the site-specific laboratory duplicates were within QC limits.

10. Field Duplicate Results – Field duplicate results provide information on the ability to reproduce field results and account for errors introduced from handling, shipping, storage, preparation, and analysis of field samples. There are no specific USEPA criteria for qualifying data from field duplicate results. Depending upon the sample concentration, one of the following criteria based upon NFGI is applicable:

    - Is the compound detected in both portions?
    - If the sample concentrations are greater than 5 times the reporting limit, then the maximum allowable RPD is 20 percent for water samples.
    - If the sample concentrations are less than 5 times the reporting limit, then a sensitivity test is applied. For the sensitivity test, the sample concentrations must agree within ± the lower reporting limit for water samples.
    - If the radium results are reported above their minimum detectable concentration (MDC), the normalized difference (also called the relative error ratio) between the duplicate pair was calculated. The maximum normalized difference is 1.96 for the radium samples.

    The following field duplicate pairs were included in this review, and detections are presented on Table 2:

    - MW110 / Well Duplicate 1 (collected 4/28/2025): All field duplicate results were adequately replicated, with the exception of hardness calculation as CaCO3, calcium, and magnesium which yielded elevated RPDs that did not meet the duplication criteria. Hence, the parent/duplicate pair was qualified as estimated (J) for these analytes.
    - MW3 / Well Duplicate 2 (collected 4/29/2025): All field duplicate results were adequately replicated, with the exception of iron, arsenic, nickel, cobalt, and barium which did not meet the duplication criteria. Iron, arsenic, nickel, and barium yielded elevated RPDs, while cobalt failed the sensitivity test. Hence, the parent/duplicate pair was qualified as estimated (J) for these analytes.
    - General: Both field duplicate pairs exhibited variable differences in the radium results due to their associated uncertainty. As noted previously, all radium results were qualified estimated (J) for one or more reasons. As such, no further qualifiers were added for these results based solely on the field duplicate review.

11. Miscellaneous – The lab flagged one or more results outside its QC limits for calibration issues. The calibration information was not provided and was not included in this scope of review (flagged "V1" by the laboratory). No data review qualifiers were added based solely on these calibration flags.

Additionally, the lab observed low residue yield and flagged one or more TDS results as "G1". This was noted as an observation by the lab, and impact to the results was negligible. As such, no qualifiers were added based on this lab note.

12. Reporting Limits – Dilutions were required to account for high concentrations of target analytes and/or matrix interferences in one or more field samples (indicated by "D" or "D1" qualifiers added by the lab). The reporting limits were adjusted accordingly, and no data review qualifiers were added based on these dilutions.

13. Conclusion – The data were reviewed for achievement of any method-specified QA/QC criteria. No data were rejected during this review. Thus, the data are valid for use, as qualified, in reporting the results of this investigation. Table 1 presents the data qualifiers added during this review.

Attachments
Table 1 – Data Qualifier Table
Table 2 – Field Duplicate Comparison – Detections Only

Table 1
Data Qualifier Table
BREC(s) Wilson - April 2025 Sampling Event
Ohio County, Kentucky

Analytical Method	Analyte(s)	Sample Identification	Laboratory Number	Data Validation Qualifier	Reason(s) for Qualification
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW1	5044390-01	J	Method blank detection
SW846-6020 A	Zinc	MW2	5044390-03	JU	Field blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium			J	Field blank detection Method blank detection
EPA 245.7 REV 2	Mercury			UJ	MS/MSD REC(s) < QC Limits
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW3	5044390-05	J	Method blank detection
EPA 245.7 REV 2	Mercury			UJ	MS REC(s) < QC limit MS/MSD RPD > QC Limit
SW846 6010 B	Iron			J	Parent/ Field Duplicate discrepancy
SW846-6020 A	Arsenic			J	Parent/ Field Duplicate discrepancy
SW846-6020 A	Barium			J	Parent/ Field Duplicate discrepancy
SW846-6020 A	Nickel			J	Parent/ Field Duplicate discrepancy
SW846-6020 A	Cobalt			J	Parent/ Field Duplicate discrepancy
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW4	5044390-07	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW4D	5044390-09	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW5	5044390-11	J	Method blank detection
SW846-6020 A	Lithium			J+	MS/MSD REC(s) > QC limits
SW846-6020 A	Zinc			J+	MS/MSD REC(s) > QC limits
EPA 245.7 REV 2	Mercury			UJ	MS REC(s) < QC limit MS/MSD RPD > QC Limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW6	5044390-13	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW7	5044390-15	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW8	5044390-17	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW10	5044390-19	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-10D	5044390-21	J	Method blank detection
SW846-6020 A	Lithium			J+	MS/MSD REC(s) > QC limits
SW846-6020 A	Molybdenum			J+	MS/MSD REC(s) > QC limits
SW846-6020 A	Cobalt			J+	MS/MSD REC(s) > QC limits
SW846-6020 A	Zinc			J+	MS/MSD REC(s) > QC limits
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW102	5044390-23	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW104	5044390-25	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-105R	5044390-27	J	Method blank detection
EPA 245.7 REV 2	Mercury			UJ	MS REC(s) < QC limit

Table 1
Data Qualifier Table
BREC(s) Wilson - April 2025 Sampling Event
Ohio County, Kentucky

Analytical Method	Analyte(s)	Sample Identification	Laboratory Number	Data Validation Qualifier	Reason(s) for Qualification
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW110	5044390-29	J	Method blank detection
2340 B-1997	Hardness calculation as CaCO3			J	Parent/ Field Duplicate discrepancy
SW846 6010 B	Calcium			J	Parent/ Field Duplicate discrepancy
SW846 6010 B	Magnesium			J	Parent/ Field Duplicate discrepancy
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-111	5044390-31	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-112	5044390-33	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-113	5044390-35	J	Method blank detection
EPA 245.7 REV 2	Mercury			UJ	MS REC(s) < QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-114	5044390-37	J	Method blank detection
SW846-6020 A	Zinc	Well Duplicate 1	5044390-39	JU	Method blank detection LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium			J	Method blank detection
2340 B-1997	Hardness calculation as CaCO3			J	Parent/ Field Duplicate discrepancy
SW846 6010 B	Calcium			J	Parent/ Field Duplicate discrepancy
SW846 6010 B	Magnesium			J	Parent/ Field Duplicate discrepancy
SW846-6020 A	Zinc	Well Duplicate 2	5044390-41	JU	Method blank detection LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium			J	Method blank detection
EPA 245.7 REV 2	Mercury			UJ	MS REC(s) < QC limit MS/MSD RPD > QC Limit
SW846 6010 B	Iron			J	Parent/ Field Duplicate discrepancy
SW846-6020 A	Arsenic			J	Parent/ Field Duplicate discrepancy
SW846-6020 A	Barium			J	Parent/ Field Duplicate discrepancy
SW846-6020 A	Nickel			J	Parent/ Field Duplicate discrepancy
SW846-6020 A	Cobalt			J	Parent/ Field Duplicate discrepancy

Notes:

EPA = Environmental Protection Agency
J = Qualified as estimated during data review
J+ = Qualified as estimated potential high bias
JU = Low-level detection was qualified as nondetect
LCS = Laboratory control sample
MS/MSD = Matrix spike/Matrix spike duplicate
MW = Monitoring Well
QC = Qualitiy Control
REC(s) = Percent REC(s)overy
RPD = Relative Percent Difference
UJ = Nondetect result qualified as estimated at the reporting limit during data review

Table 2
Field Duplicate Comparison - Detections Only
BREC Wilson - April 2025 Sampling Event
Ohio County, Kentucky

Sample ID: Lab ID: Date:	MW110 5044390-29 04/28/2025	Well Duplicate 1 5044390-39 04/28/2025	Units	Meets QC
Bicarbonate Alkalinity as CaCO3	144	145	mg/L	Yes
Total Alkalinity	144	145	mg/L	Yes
Hardness Calculation as CaCO3	247 J	181 J	mg/L	No, (RPD 31%)
Specific Conductance (Lab)	538	539	uS/cm	Yes
Total Dissolved Solids	288	270	mg/L	Yes
Total Organic Carbon	1.5	1.4	mg/L	Yes
Chloride	10.4	10.3	mg/L	Yes
Fluoride	0.24	0.23	mg/L	Yes
Sulfate	72	71.4	mg/L	Yes
Radium-226	1.01 J	0.882 J	pCi/L	No
Radium-228	0.615 J	0.560 J	pCi/L	No
Total Radium	1.63 J	1.44 J	pCi/L	No
Chemical Oxygen Demand	10	10	mg/L	Yes
Calcium	54.2 J	39.9 J	mg/L	No, (RPD 30%)
Iron	4.58	4.08	mg/L	Yes
Magnesium	27.1 J	19.8 J	mg/L	No, (RPD 31%)
Potassium	0.6	0.55	mg/L	Yes
Sodium	29.2	28.7	mg/L	Yes
Arsenic	0.0023	0.002	mg/L	Yes
Barium	0.059	0.058	mg/L	Yes
Nickel	0.001	0.005	mg/L	Yes

Table 2
Field Duplicate Comparison - Detections Only
BREC Wilson - April 2025 Sampling Event
Ohio County, Kentucky

Sample ID: Lab ID: Date:	MW3 5044390-05 04/29/2025	Well Duplicate 2 5044390-41 04/29/2025	Units	Meets QC
Bicarbonate Alkalinity as CaCO3	278	278	mg/L	Yes
Total Alkalinity	278	278	mg/L	Yes
Hardness Calculation as CaCO3	1150	1070	mg/L	Yes
Specific Conductance (Lab)	2260	2240	uS/cm	Yes
Total Dissolved Solids	1500	1480	mg/L	Yes
Total Organic Carbon	0.9	0.7	mg	Yes
Chloride	74.6	74.1	mg/L	Yes
Fluoride	0.22	0.2	mg/L	Yes
Sulfate	671	739	mg/L	Yes
Radium-226	0.473 J	0.425 J	pCi/L	Yes
Radium-228	1.54 J	0.911 J	pCi/L	No
Total Radium	2.01 J	1.34 J	pCi/L	No
Chemical Oxygen Demand	20	17	mg/L	Yes
Boron	1.14	1.12	mg/L	Yes
Calcium	299	274	mg/L	Yes
Iron	30.9 J	11.6 J	mg/L	No, (RPD 91%)
Magnesium	97.1	93.5	mg/L	Yes
Potassium	7.12	7.22	mg/L	Yes
Sodium	56.3	57.9	mg/L	Yes
Arsenic	0.0058 J	0.002 J	mg/L	No, (RPD 97%)
Barium	0.062 J	0.027 J	mg/L	No, (RPD 79%)
Cadmium	0.0001	0.001 U	mg/L	Yes
Chromium	0.0007	0.002 U	mg/L	Yes
Cobalt	0.019	0.006	mg/L	No, (Sensitivity failed)
Copper	0.003	0.003 U	mg/L	Yes
Lithium	0.03	0.04	mg/L	Yes
Molybdenum	0.003	0.002	mg/L	Yes
Nickel	0.022	0.009	mg/L	No, (RPD 84%)
Zinc	0.02 JU	0.01 JU	mg/L	Yes

Notes

ID = Identification
J = Estimated value / Qualified as estimated during data review
JU = Low-level detection was qualified as nondetect
mg/L = Milligrams per liter
MW = Monitoring Well
pCi/L = PicoCurie per liter
QC = Quality Control
RPD = Relative Percent Difference
U = Compound was not detected
uS/cm = Microsiemens per centimeter

Memorandum

Date: November 12, 2025

To: Christopher Hoglund

From: Omkar Parab

Re: Quality Assurance/Quality Control (QA/QC) Review of Analytical Data
2H – 2025 Sampling Event (September 2025)
BREC Wilson, Ohio County, Kentucky
Project No. 185747

Groundwater samples were collected at the BREC Wilson Landfill Site in Ohio County, Kentucky, on September 23 and 24, 2025. The samples were analyzed by Pace Analytical Services of Madisonville, Kentucky (Pace Madisonville) and Pace Analytical of Greensburg, Pennsylvania (Pace Greensburg) for one or more of the following parameters:

Parameter	Analytical Method	Laboratory
Metals	SW846 6010 B SW846 6020 A	Pace Madisonville
Mercury	EPA 245.7 REV 2	
Total Dissolved Solids (TDS)	2540 C-2015	
Anions Chloride, Fluoride, Sulfate	EPA 300.0 REV 2.1	
Total Organic Carbon (TOC)	5310 C-2014	
Alkalinity Bicarbonate/carbonate alkalinity as CaCO3 Total alkalinity	2320 B-2011	
Hardness Calculation as CaCO3	2340 B-1997	
Specific Conductance	2510 B-2011	
Chemical Oxygen Demand (COD)	HACH 8000	
Radium-226 Radium-228 *total calculated from radium-226 + radium-228 analyses.	EPA 903.1 EPA 904.0 Total Radium by calculation	Pace Greensburg

The QA/QC results in association with the samples collected were examined for any method-specific requirements. Data qualifiers, when appropriate, were added to the data as recommended in the United States Environmental Protection Agency's (USEPA's) *National Functional Guidelines for Inorganic Superfund Methods Data Review* (NFGI, 2020). In any instance where a result was qualified for one or more reasons, the bias indicator may be dropped for final reporting of the data. The QA/QC review results are discussed below, and the qualifiers added during this review are summarized in Table 1.

1. Chain-of-Custody (COC) –The relinquished and received signatures, times, and dates were present on the COCs for all samples sent from the field to Pace Madisonville. For samples sent from Pace Madisonville to Pace Greensburg, the lab noted that the additional sample volumes for field QC purposes (at MW5) were not labeled as such. The sample volumes were used as

intended and no further actions were necessary.

Pace Greensburg also noted that no sampler information, dates and times were noted on the COCs and/or sample bottles. Pace Greensburg notified Pace Madisonville of these omissions in their lab sampling forms/communication system. All radium samples were reported with the correct sample information, and no qualifiers were added based on these laboratory notes.

2. Requested Analyses Completed – All analyses were completed as requested.

3. Holding Times – All analyses were completed within their recommended holding time.

4. Sample Preservation – All samples sent to Pace Madisonville were received at <6 degrees Celsius, and none were frozen. The radium samples sent to Pace Greensburg did not require thermal preservation. No data qualifiers were necessary.

5. Field Blank – Field blanks assess the ambient air conditions at the site at the time of sampling. For this review, the field blank was collected at MW5 and was associated with this well. The following field blank detections were noted during this review:

    - Specific conductance: The specific conductance result in the associated sample, MW5, was greater than five times the Field Blank detection; hence, no qualifiers were required.

    - TOC: The TOC result in the associated sample, MW5, was greater than the reporting limit but less than five times the Field Blank concentration. Therefore, the sample was qualified as estimated potential high bias (J+).

    - Mercury: Mercury was not detected in the associated sample MW5, and no qualifiers were required.

    - Zinc: Associated sample MW5 yielded a zinc detection greater than the reporting limit but less than five times the field blank concentration. Hence, the sample was qualified as estimated potential high bias (J+).

    - Radium 226, radium 228, and total radium: For this blank review, estimated (J) qualifiers (rather than non-detect qualifiers) were added to the associated sample due to the uncertainty associated with these analytes.

      All radium results for MW5 were qualified as estimated (J) since they were less than five times the respective field blank concentration.

Mercury field blanks were also submitted for each sample. Since mercury was non-detect in all the mercury field blanks, no qualifiers were required.

6. Method Blanks – Method blanks assess the potential for cross-contamination during the sample preparation and/or analysis. The following method blank detections were noted during this review:

   - Copper yielded a low-level detection (J-flagged) in the laboratory blank in QC batch BEI2752. Associated samples MW4D and MW5 yielded low-level (J-flagged) copper detections; therefore, the noted samples were qualified as non-detect (JU). Copper was non-detect in all other associated samples; hence, no qualifier was required.

   - Copper yielded a low-level detection (J-flagged) in the laboratory blank in QC batch BEI2755. Associated samples MW104, MW110, MW-112 and MW-113 yielded low-level (J-flagged) copper detections; therefore, the noted samples were qualified as non-detect (JU). The sample MW-105R yielded a copper detection greater than the reporting limit and greater than five times the method blank concentration; hence, no qualifier was required. Copper was non-detect in all other associated samples; hence, no qualifier was required.

   - Zinc yielded low-level detections (J-flagged) in one or more laboratory blanks in QC batch BEI2752. Associated samples MW2, MW3, MW7, MW8, and MW-10D yielded a low-level (J-flagged) zinc detection; therefore, the noted samples were qualified as non-detect (JU). Samples MW4, MW5, and MW10 yielded a zinc detection greater than the reporting limit but less than five times the method blank concentration. Hence, the samples were qualified as estimated potential high bias (J+).

   - Radium: Radium-226 and radium-228 were detected in all method blanks. Because of the uncertainty associated with radium results, the review criteria were slightly altered to account for this. For any associated radium-226 or radium-228 detection less than five times the corresponding method blank concentration plus its uncertainty, the respective result was qualified as estimated (J). Additionally, because this result was used in the calculation to report total radium, the total radium result for said sample was also qualified as estimated (J). Based on this, all samples (except the field blank) were qualified and estimated (J) for the radium fractions as part of this method blank review. The field blank was not qualified since blanks are not typically qualified based on other blanks. Therefore, the field blank was excluded from this method blank review qualification.

7. Laboratory Control Samples (LCS) – The LCS contains a matrix similar to that of the sample that has been spiked with known concentrations of target analytes. The LCS is prepared and analyzed by the same method as the samples. As a measure of analytical accuracy, the results of the LCS are compared against the known analyte concentrations in the spike to determine percent recovery (REC). The purpose of the LCS is to determine the performance of the laboratory with respect to analyte recovery, independent of field sample matrix interference. All LCS RECs were within

their respective QC limits, except for the following:

- QC batch BEI2752: The LCS RECs were above their QC limits for molybdenum, arsenic, chromium, cobalt, copper, nickel, and zinc. Detections of these analytes in the associated samples were qualified as estimated potential high bias (J+).

8. Matrix Spike/Matrix Spike Duplicates (MS/MSD) – MS/MSDs are typically run for organic and inorganic analyses. A sample is split into three portions (original, MS and MSD), and a known amount of a target analyte is added (spiked) to two portions (MS and MSD) of the sample. The results of these two portions are compared with each other for reproducibility using the relative percent difference (RPD). They are also compared against the unspiked portion of the sample for REC of the spike. For one or more MS/MSDs, the lab could not calculate a REC and no result was reported. Additionally, for several of the metals, there were one or more MS/MSDs performed on a particular site-specific sample. Qualification for these instances was based on professional judgment. The following site-specific MS/MSD results were outside their respective control limits and qualified as noted (see also Table 1 for all qualifications added).

- MS/MSD RECs performed on sample MW1:

  The MS/MSD spike amounts for calcium, iron, magnesium, cobalt, nickel, sodium, and zinc were less than ¼ the respective concentration for the noted spiked parent sample. Additionally, the lab performed a post-digestive spike (PDS) on this same parent sample, which also didn't meet the ¼ rule for one or more of these analytes. As such, no conclusion could be made for these MS/MSDs for the noted analytes. No qualifiers were added based on the MS/MSD or PDS for these metals.

- MS/MSD RECs performed on sample MW5:

  The MS/MSD spike amounts for boron, calcium, magnesium, and sodium were less than ¼ the respective concentration for the noted spiked parent sample. As such, no conclusion could be made, and no qualifiers were added based on these MS/MSD results.

  The MS/MSD RECs for lithium were above the control limits. Lithium detection in the spiked parent sample was qualified as estimated bias high (J+).

- MS/MSD RECs performed on sample MW102:

  The MS and/or MSD RECs for calcium, magnesium, and sodium were outside their control limits. Spike amounts for calcium and sodium were less than ¼ the respective concentration for the noted parent sample. Additionally, the lab performed a post-digestive spike (PDS) on this same parent sample, which also didn't meet the ¼ rule. As such, no conclusion could be made for these

MS/MSDs for the noted analytes. No qualifiers were added based on the MS/MSDs or PDS for these metals.

- MS/MSD RECs performed on sample MW3:

  The two MS/MSD RECs for mercury were below the control limits. The spiked parent sample was non-detect for mercury and was qualified as estimated at the reporting limit (UJ). Because this sample was part of a field duplicate pair, the associated field duplicate, Well Duplicate 2, was also qualified as noted.

- MS/MSD RECs performed on sample MW-111:

  The two MS/MSD RECs for mercury were below the control limits. The spiked parent sample was non-detect for mercury and was qualified as estimated at the reporting limit (UJ).

All other site-specific MS/MSD RECs and/or RPDs were within their respective QC limits.

9. Laboratory Duplicates – Laboratory duplicates were performed to evaluate analytical precision between samples when an MS/MSD may not be appropriate. Only project-specific laboratory duplicates were compared and used for qualifications.

   All the site-specific laboratory duplicates were within QC limits.

10. Field Duplicate Results – Field duplicate results provide information on the ability to reproduce field results and account for errors introduced from handling, shipping, storage, preparation, and analysis of field samples. There are no specific USEPA criteria for qualifying data from field duplicate results. Depending upon the sample concentration, one of the following criteria based upon NFGI is applicable:

    - Is the compound detected in both portions?

    - If the sample concentrations are greater than 5 times the reporting limit, then the maximum allowable RPD is 20 percent for water samples.

    - If the sample concentrations are less than 5 times the reporting limit, then a sensitivity test is applied. For the sensitivity test, the sample concentrations must agree within ± the lower reporting limit for water samples.

    - If the radium results are reported above their minimum detectable concentration (MDC), the normalized difference (also called the relative error ratio) between the duplicate pair was calculated. The maximum normalized difference is 1.96 for the radium samples.

The following field duplicate pairs were included in this review, and detections are presented in Table 2:

- MW110 / Well Duplicate 1 (collected 9/23/2025): All field duplicate results were adequately replicated, with the exception of specific conductance, TDS, and iron, which yielded elevated RPDs that did not meet the duplication criteria. Hence, the parent/duplicate pair was qualified as estimated (J) for these analytes. Hardness calculation as CaCO3, calcium, magnesium, and sodium were analyzed at different dilutions; hence, no conclusion could be made, and no qualifiers were added.

- MW3 / Well Duplicate 2 (collected 9/24/2025): All field duplicate results were adequately replicated, with the exception of bicarbonate alkalinity as CaCO3, total alkalinity, TDS, and iron, which yielded elevated RPDs that did not meet the duplication criteria. Hence, the parent/duplicate pair was qualified as estimated (J) for these analytes.

- General: Both field duplicate pairs exhibited variable differences in the radium results due to their associated uncertainty. As noted previously, all radium results were qualified estimated (J) for one or more reasons. As such, no further qualifiers were added for these results based solely on the field duplicate review.

11. Miscellaneous – The lab observed low residue yield and flagged one or more TDS results as "G1". This was noted as an observation by the lab, and the impact to the results was negligible. As such, no qualifiers were added based on this lab note.

12. Reporting Limits – Dilutions were required to account for high concentrations of target analytes and/or matrix interferences in one or more field samples (indicated by "D" or "D1" qualifiers added by the lab). The reporting limits were adjusted accordingly, and no data review qualifiers were added based on these dilutions.

13. Conclusion – The data were reviewed for achievement of any method-specified QA/QC criteria. No data were rejected during this review. Thus, the data are valid for use, as qualified, in reporting the results of this investigation. Table 1 presents the data qualifiers added during this review.

Attachments
Table 1 – Data Qualifier Table
Table 2 – Field Duplicate Comparison – Detections Only

Table 1
Data Qualifier Table
BREC(s) Wilson - September 2025 Sampling Event
Ohio County, Kentucky

Analytical Method	Analyte(s)	Sample Identification	Laboratory Number	Data Validation Qualifier	Reason(s) for Qualification
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW1	5092520-01	J	Method blank detection
SW846-6020 A	Molybdenum			J+	LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Chromium			J+	LCS REC(s) > QC limit
SW846-6020 A	Cobalt			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
SW846-6020 A	Zinc			J+	LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW2	5092520-03	J	Method blank detection
SW846-6020 A	Zinc			JU	Method blank detection LCS REC(s) > QC limit
SW846-6020 A	Molybdenum			J+	LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Cobalt			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW3	5092520-05	J	Method blank detection
SW846-6020 A	Zinc			JU	Method blank detection LCS REC(s) > QC limit
SW846-6020 A	Molybdenum			J+	LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Cobalt			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
EPA 245.7 REV 2	Mercury			UJ	MS/MSD REC(s) < QC Limits
2320 B-2011	Bicarbonate alkalinity as CaCO3			J	Parent/ field duplicate discrepancy
2320 B-2011	Total alkalinity			J	Parent/ field duplicate discrepancy
SW846 6010 B	Iron			J	Parent/ field duplicate discrepancy
2540 C-2015	TDS			J	Parent/ field duplicate discrepancy
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW4	5092520-07	J	Method blank detection
SW846-6020 A	Zinc			J+	Method blank detection LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Cobalt			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW4D	5092520-09	J	Method blank detection
SW846-6020 A	Copper			JU	Method blank detection LCS REC(s) > QC limit
SW846-6020 A	Molybdenum			J+	LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Chromium			J+	LCS REC(s) > QC limit
SW846-6020 A	Cobalt			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
SW846-6020 A	Zinc			J+	LCS REC(s) > QC limit

Table 1
Data Qualifier Table
BREC(s) Wilson - September 2025 Sampling Event
Ohio County, Kentucky

Analytical Method	Analyte(s)	Sample Identification	Laboratory Number	Data Validation Qualifier	Reason(s) for Qualification
5310 C-2014	TOC	MW5	5092520-11	J+	Field blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium			J	Field blank detection Method blank detection
SW846-6020 A	Zinc			J+	Field blank detection LCS REC(s) > QC limit
SW846-6020 A	Copper			JU	Method blank detection LCS REC(s) > QC limit
SW846-6020 A	Molybdenum			J+	LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
SW846-6020 A	Lithium			J+	MS/MSD REC(s) > QC Limits
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW6	5092520-13	J	Method blank detection
SW846-6020 A	Zinc			J+	LCS REC(s) > QC limit
SW846-6020 A	Molybdenum			J+	LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Cobalt			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW7	5092520-15	J	Method blank detection
SW846-6020 A	Zinc			JU	Method blank detection LCS REC(s) > QC limit
SW846-6020 A	Molybdenum			J+	LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Chromium			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW8	5092520-17	J	Method blank detection
SW846-6020 A	Zinc			JU	Method blank detection LCS REC(s) > QC limit
SW846-6020 A	Molybdenum			J+	LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Chromium			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW10	5092520-19	J	Method blank detection
SW846-6020 A	Zinc			J+	Method blank detection LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Cobalt			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-10D	5092520-21	J	Method blank detection
SW846-6020 A	Zinc			JU	Method blank detection LCS REC(s) > QC limit
SW846-6020 A	Molybdenum			J+	LCS REC(s) > QC limit
SW846-6020 A	Arsenic			J+	LCS REC(s) > QC limit
SW846-6020 A	Cobalt			J+	LCS REC(s) > QC limit
SW846-6020 A	Nickel			J+	LCS REC(s) > QC limit
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW102	5092520-23	J	Method blank detection

Table 1
Data Qualifier Table
BREC(s) Wilson - September 2025 Sampling Event
Ohio County, Kentucky

Analytical Method	Analyte(s)	Sample Identification	Laboratory Number	Data Validation Qualifier	Reason(s) for Qualification
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW104	5092520-25	J	Method blank detection
SW846-6020 A	Copper			JU	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-105R	5092520-27	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW110	5092520-29	J	Method blank detection
2510 B-2011	Specific conductance			J	Parent/ field duplicate discrepancy
2540 C-2015	TDS			J	Parent/ field duplicate discrepancy
SW846 6010 B	Iron			J	Parent/ field duplicate discrepancy
SW846-6020 A	Copper			JU	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-111	5092520-31	J	Method blank detection
EPA 245.7 REV 2	Mercury			UJ	MS/MSD REC(s) < QC Limits
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-112	5092520-33	J	Method blank detection
SW846-6020 A	Copper			JU	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-113	5092520-35	J	Method blank detection
SW846-6020 A	Copper			JU	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	MW-114	5092520-37	J	Method blank detection
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	Well Duplicate 1	5092520-39	J	Method blank detection
2510 B-2011	Specific conductance			J	Parent/ field duplicate discrepancy
2540 C-2015	TDS			J	Parent/ field duplicate discrepancy
SW846 6010 B	Iron			J	Parent/ field duplicate discrepancy
EPA 903.1 EPA 904.0 Total Radium	Radium 226 Radium 228 Total Radium	Well Duplicate 2	5092520-41	J	Method blank detection
2320 B-2011	Bicarbonate alkalinity as CaCO3			J	Parent/ field duplicate discrepancy
2320 B-2011	Total alkalinity			J	Parent/ field duplicate discrepancy
EPA 245.7 REV 2	Mercury			UJ	MS/MSD REC(s) < QC Limits
SW846 6010 B	Iron			J	Parent/ field duplicate discrepancy
2540 C-2015	TDS			J	Parent/ field duplicate discrepancy

Notes:

EPA = Environmental Protection Agency
J = Qualified as estimated during data review
J+ = Qualified as estimated potential high bias
JU = Low-level detection was qualified as nondetect
LCS = Laboratory control sample
MS/MSD = Matrix spike/matrix spike duplicate
MW = Monitoring Well
QC = Qualitiy Control
REC(s) = Percent recovery
RPD = Relative Percent Difference
TDS = Total dissolved solids
TOC = Total organic carbon
UJ = Nondetect result qualified as estimated at the reporting limit

Table 2
Field Duplicate Comparison - Detections Only
BREC Wilson - September 2025 Sampling Event
Ohio County, Kentucky

Sample ID: Lab ID: Date:	MW110 5092520-29 9/23/2025	Well Duplicate 1 5092520-39 9/23/2025	Units	Meets QC
Bicarbonate Alkalinity as CaCO3	151	185	mg/L	Yes
Chemical Oxygen Demand	13 U	15	mg/L	Yes
Total Alkalinity	151	185	mg/L	Yes
Hardness Calculation as CaCO3	18	182	mg/L	No (Dilution)
Specific Conductance (Lab)	3,870 J	506 J	uS/cm	No, (RPD 154%)
Total Dissolved Solids	272 J	358 J	mg/L	No, (RPD 27%)
Total Organic Carbon	1.2	1.3	mg/L	Yes
Chloride	9.9	9.3	mg/L	Yes
Fluoride	0.31	0.26	mg/L	Yes
Sulfate	66	67.3	mg/L	Yes
Radium-226	1.29 J	1.06 J	pCi/L	Yes
Radium-228	1.96 J	1.61 J	pCi/L	Yes
Total Radium	3.25 J	2.67 J	pCi/L	Yes
Calcium	3.83	41.5	mg/L	No (Dilution)
Iron	0.543 J	4.6 J	mg/L	No, (RPD 158%)
Magnesium	1.95	19	mg/L	No (Dilution)
Potassium	0.5 U	0.56	mg/L	Yes
Sodium	2.65	26.5	mg/L	No (Dilution)
Arsenic	0.0027	0.0022	mg/L	Yes
Barium	0.057	0.06	mg/L	Yes
Chromium	0.0006	0.002 U	mg/L	Yes
Copper	0.001 JU	0.003 U	mg/L	Yes
Zinc	0.007	0.01	mg/L	Yes

Table 2
Field Duplicate Comparison - Detections Only
BREC Wilson - September 2025 Sampling Event
Ohio County, Kentucky

Sample ID: Lab ID: Date:	MW3 5092520-05 9/24/2025	Well Duplicate 2 5092520-41 9/24/2025	Units	Meets QC
Bicarbonate Alkalinity as CaCO3	458 J	330 J	mg/L	No, (RPD 32%)
Total Alkalinity	458 J	330 J	mg/L	No, (RPD 32%)
Hardness Calculation as CaCO3	1,010	1,020	mg/L	Yes
Specific Conductance (Lab)	2,000	1,950	uS/cm	Yes
Total Dissolved Solids	3,710 J	1,470 J	mg/L	No, (RPD 86%)
Total Organic Carbon	1.2	0.8	mg	Yes
Chloride	58.7	58.3	mg/L	Yes
Fluoride	0.24	0.24	mg/L	Yes
Sulfate	670	662	mg/L	Yes
Radium-226	-0.104 J	-0.179 J	pCi/L	No
Radium-228	0.812 J	0.72 J	pCi/L	Yes
Total Radium	0.812 J	0.72 J	pCi/L	Yes
Chemical Oxygen Demand	8 J	10 J	mg/L	Yes
Boron	0.88	0.9	mg/L	Yes
Calcium	259	256	mg/L	Yes
Iron	4.59 J	2.2 J	mg/L	No, (RPD 70%)
Magnesium	88.2	91.5	mg/L	Yes
Potassium	6.06	6.16	mg/L	Yes
Sodium	44.7	48.4	mg/L	Yes
Arsenic	0.0010 J+	0.0004 J	mg/L	Yes
Barium	0.016	0.014	mg/L	Yes
Cobalt	0.005 J+	0.004	mg/L	Yes
Molybdenum	0.002 J	0.002 J	mg/L	Yes
Nickel	0.006 J+	0.005	mg/L	Yes
Zinc	0.01 J	0.009 J	mg/L	Yes
Lithium	0.04	0.03	mg/L	Yes

Notes

ID = Identification
J = Estimated value / Qualified as estimated
J+ = Qualified as estimated potential high bias
JU = Low-level detection was qualified as non-detect
mg/L = Milligrams per Liter
MW = Monitoring Well
pCi/L = PicoCurie per Liter
QC = Quality Control
RPD = Relative Percent Difference
U = Compound was not detected

Appendix F – Statistical Evaluation

July 29, 2025

Mr. Mark Bertram
Big Rivers Electric Corporation
Administrative Services
Director Environmental Services
710 West 2nd Street
Owensboro, KY 42301

Re: Statistical Evaluation of April 2025 Assessment Monitoring Groundwater Data
D.B. Wilson Station Phase II CCR Landfill in Centertown, Kentucky
Agency Interest ID #: 3319

Dear Mr. Bertram:

This letter presents the results of the statistical evaluation of analytical data from the April 2025 assessment monitoring event performed at the D.B. Wilson Station Phase II Coal Combustion Residual (CCR) Landfill in Centertown, Kentucky in accordance with the requirements of the U.S. Environmental Protection Agency's *Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments* (Title 40 Code of Federal Regulations [CFR] Part 257, Subpart D). This letter also presents a comparison of the April 2025 sampling results to groundwater protection standards (GWPSs). The GWPSs for the groundwater monitoring network were reviewed and updated as part of the statistical evaluation completed for the April 2025 sampling event and are presented in **Table 1**. These GWPSs will continue to be reviewed and updated as additional data are collected. A comparison of the April 2025 data to the updated GWPSs is presented in **Table 2**. The statistical evaluation presented herein was performed in accordance with the *Update to Certification of Statistical Method for Evaluating Groundwater in accordance with 40 CFR § 257.93 at D.B Wilson Station Phase II CC Landfill in Centertown, Kentucky* dated May 25, 2022.

In April 2025, the Phase II CCR Landfill Groundwater Monitoring Well Network was sampled for Appendix III and Appendix IV parameters per the requirements of 40 CFR §257.95(d)(1). Interwell prediction limit statistical analyses were performed for these well/constituent pairs and are discussed subsequently. GWPSs were also developed in accordance with 40 CFR §257.95(h), which describes a GWPS as one of the following: the higher value between a statistically calculated background concentration for an analyte; the established maximum concentration limit (MCL); or the GWPS criteria for select Appendix IV parameters without an MCL presented in 40 CFR §257.95(h)(2). This letter presents the results of the statistical evaluation of the April 2025 assessment monitoring event for inclusion in the Phase II CCR Landfill Operating Record.

Statistical Evaluation of Phase II CCR Landfill Compliance Monitoring Well Network Evaluation

A review of the interwell prediction limit evaluation was performed to compare the April 2025 concentrations of Appendix III and Appendix IV parameters observed at CCR downgradient compliance Monitoring Wells MW-5, MW-6, MW-7, and MW-10 to calculated prediction limits (i.e., background limits) that were established using data collected from April of 2016 through April of 2025 from upgradient Monitoring Well MW-8. Note, any data qualified as rejected or considered an outlier (statistically or flagged using professional judgment) during the data review were excluded from the statistical analysis. Certain parameters were detected in April 2025 at concentrations above the calculated background limits (equivalent to the MW-8 prediction limits), and a summary is included in **Attachment 1**. This included the following well/constituent pairs for downgradient compliance monitoring wells with statistically significant increases (SSIs) above calculated background limits:

Appendix III Parameters:
- Boron (MW-5, MW-6, MW-7, and MW-10)
- Calcium (MW-5, MW-6, MW-7, and MW-10)
- Chloride (MW-5, MW-6, MW-7, and MW-10)
- Total dissolved solids (TDS) (MW-5, MW-6, MW-7 and MW-10)

Appendix IV Parameters:
- Cobalt (MW-10)
- Lithium (MW-5, MW-6 and MW-7)

The exceedances of background concentrations were generally consistent with the September-October 2024 statistical results. The exception is for the mercury SSI previously noted for Monitoring Well MW-10. Mercury has not been detected historically in these monitoring wells yet exhibited detections in the September-October 2024 sampling event. This April 2025 sampling event served as the verification sampling for these previous detections. No mercury detections were observed; thus, these previous mercury detections were determined to be anomalous results and were excluded from the statistical analyses.

All other above-noted Appendix III and Appendix IV SSIs continue to occur at the downgradient compliance monitoring wells in the April 2025 statistical analysis.

The Appendix IV constituents with SSIs (cobalt and lithium) were further evaluated to determine whether they are present at statistically significant levels (SSLs) over the GWPSs by calculating the lower confidence limit (LCL) at 95% confidence for each well and constituent using the Baseline, Detection, and Assessment monitoring results collected to date from each monitoring well. For a constituent to be present at an SSL over the GWPS, its LCL must be greater than the GWPS. The comparison of the calculated LCLs with the GWPSs for cobalt and lithium at downgradient compliance Monitoring Wells MW-5, MW-6, MW-7, and MW-10 resulted in the following well/constituent pair(s) with a SSL above the GWPS:

- Cobalt (MW-10)

The LCLs for the remaining well/constituent pairs for cobalt and lithium were either equal to or less than the GWPS; thus, they are not considered SSLs. **Attachment 1** provides a summary of the calculated LCLs in comparison with the GWPSs. The cobalt SSL above the GWPS was consistent with the September-October 2024 SSI at Monitoring Well MW-10, as this SSL was present in groundwater the past four events.

Given that certain Appendix III and IV constituents were observed within the Phase II CCR Landfill groundwater monitoring network at concentrations above their respective calculated background limit and/or the LCL for a certain Appendix IV constituent was greater than the corresponding GWPS, these results do not warrant a transition to detection monitoring per the requirements of 40 CFR §257.95(f) and assessment monitoring will continue for the next second half semiannual monitoring event in 2025.

Sincerely,

Burns & McDonnell Engineering Company, Inc.

Chris Hoglund, PG
Project Manager

Attachments:

Table 1 – Calculated Background and Groundwater Protection Standards for Groundwater
Table 2 – Summary of April 2025 Analytical Results

Attachment 1 – Sanitas™ Statistical Outputs for Phase II CCR Landfill Compliance Monitoring Network

cc: Diana Merritt, BREC Wilson Station

TABLES

Table 1
Calculated Background and Groundwater Protection Standards for Groundwater
D.B. Wilson Station Phase II CCR Landfill in Centertown, Kentucky

Detection Monitoring Constituents (Appendix III)	Units	Background*	MCL	40 CFR §257.95(h)(2) Criteria	Groundwater Protection Standard
Boron	mg/L	0.0518	--	--	--
Calcium	mg/L	349	--	--	--
pH	SU	4.67 - 6.84	--	--	--
Total Dissolved Solids	mg/L	1750	--	--	--
Chloride	mg/L	5.532	--	--	--
Fluoride	mg/L	0.486	4	--	4
Sulfate	mg/L	2180	--	--	--
Assessment Monitoring Constituents (Appendix IV)	**Units**	**Background***	**MCL**	**40 CFR §257.95(h)(2) Criteria**	**Groundwater Protection Standard**
Antimony	mg/L	0.0025	0.006	--	0.006
Arsenic	mg/L	0.0144	0.01	--	0.0144
Barium	mg/L	0.07	2	--	2
Beryllium	mg/L	0.002	0.004	--	0.004
Cadmium	mg/L	0.0005	0.005	--	0.005
Chromium	mg/L	0.0224	0.1	--	0.1
Cobalt	mg/L	0.009	--	0.006	0.009
Fluoride	mg/L	0.486	4	--	4
Lead	mg/L	0.012	--	0.015	0.015
Lithium	mg/L	0.02	--	0.04	0.04
Mercury	mg/L	0.000005	0.002	--	0.002
Molybdenum	mg/L	0.0187	--	0.1	0.1
Combined Radium 226 and 228**	pCi/L	2.94	5	--	5
Selenium	mg/L	0.0015	0.05	--	0.05
Thallium	mg/L	0.001	0.002	--	0.002

Notes:

*Background concentrations were determined utilizing interwell prediction limits (Attachment 1). Upgradient Monitoring Well MW-8 was used to calculate background concentrations. This included background data ranging from April 2016 through April 2025. For pH, background is between those values presented.

**Combined radium is reported with an uncertainty range. However, this range cannot be incorporated into statistical calculations as it varies per result and is not a standard value. Therefore, to maintain consistency in reporting these results, the reported laboratory concentration was used for the statistical analyses.

CFR - Code of Federal Regulations

mg/L - milligrams per Liter

pCi/L - picocuries per Liter

MCL - maximum contaminant level

SU - standard units

Table 2
Summary of April 2025 Analytical Results
D.B. Wilson Station Phase II CCR Landfill in Centertown, Kentucky

Sample Location:			1st Half 2025 Calculated Background[1]	GWPS[2]	MW-5	MW-6	MW-7	MW-8	MW-10
Sample Date:					4/29/2025	4/29/2025	4/29/2025	4/28/2025	4/29/2025
Laboratory ID(s):					5044390-11	5044390-13	5044390-15	5044390-17	5044390-19
All analytes excl. Radium/Radium only									
Note(s):					Downgradient	Downgradient	Downgradient	Upgradient Well	Downgradient
Analytical Method	**Analyte**	**Unit**			**CCR Compliance Monitoring Well Network**				
Appendix III - Detection Monitoring									
6010B	Boron	mg/L	0.0518	--	**0.96 M1**	**0.80**	**6.87 D1**	0.10 U	**0.39**
6010B	Calcium	mg/L	349	--	**789 D1, M3**	**542 D1**	**545 D1**	236 D1	**471 D1**
In Situ	pH	SU	4.67 - 6.84	--	6.40	6.4	6.54	6.58	5.98
2540 C-2015	Total Dissolved Solids	mg/L	1750	--	**3540**	**2630**	**2240**	1680	**1910**
300.0 REV 2.1	Chloride	mg/L	5.532	--	**276 D**	**29.9**	**222 D**	3.6	**51.1**
300.0 REV 2.1	Fluoride	mg/L	0.486	4	0.20 U	0.20 U	0.22	0.25	0.20 U
300.0 REV 2.1	Sulfate	mg/L	2180	--	1580 D, M1	1650 D	1310 D	815 D	1710 D
Appendix IV - Assessment Monitoring									
6020A	Antimony	mg/L	0.0025	0.006	0.005 M1, U	0.005 U	0.005 U	0.005 U	0.005 U
6020A	Arsenic	mg/L	0.0144	0.0144	0.0032	0.0044	0.005	0.0059	0.0016
6020A	Barium	mg/L	0.07	2	0.013	0.012	0.015	0.023	0.008
6020A	Beryllium	mg/L	0.002	0.004	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
6020A	Cadmium	mg/L	0.0005	0.005	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J
6020A	Chromium	mg/L	0.0224	0.1	0.0006 J	0.002 U	0.0006 J	0.0017 J	0.002 U
6020A	Cobalt	mg/L	0.009	0.009	0.006	0.009	0.004 U	0.004 U	**0.079**
300.0 REV 2.1	Fluoride	mg/L	0.486	4	0.20 U	0.20 U	0.22	0.25	0.20 U
6020A	Lead	mg/L	0.012	0.015	0.0007 J	0.002 U	0.002 U	0.0006 J	0.002 U
6020A	Lithium	mg/L	0.02	0.04	**0.04 M1**	**0.04**	**0.03**	0.009 J	0.007 J
245.7 REV 2	Mercury	mg/L	0.000005	0.002	0.000005 M2, Y2, U	0.000005 U	0.000005 U	0.000005 U	0.000005 U
6020A	Molybdenum	mg/L	0.0187	0.1	0.005 J	0.006 J	0.005 J	0.01	0.01 U
903.1/904.0	Combined Radium 226 and 228[3]	pCi/L	2.94	5	0.881	0.728	1.07	1.77	1.14
6020A	Selenium	mg/L	0.0015	0.05	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
6020A	Thallium	mg/L	0.001	0.002	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U

Notes

1 - Background concentrations were determined utilizing interwell prediction limits. Upgradient Monitoring Well MW-8 was used to determine these background concentrations. This included data ranging from April 2016 through April 2025. For pH, background is between those values presented.

2 - GWPSs were developed in accordance with Title 40 Code of Federal Regulations §257.95(h).

3 - Combined radium is reported with an associated uncertainty range. However, this range cannot be incorporated into statistical calculations as it varies per result and is not a standard value. Therefore, to maintain consistency in reporting these results, the reported laboratory concentration was used for the statistical analyses.

Bold - Analyte detected above calculated background concentration.

Parameter was detected in compliance monitoring well located downgradient of the CCR Landfill at a statistically significant level above its GWPS (see Confidence Interval statistical output in Attachment 1).

CCR - coal combustion residual

D - Results reported from dilution.

D1 - Sample required dilution due to high concentration of target analyte.

GWPS - groundwater protection standard

J - estimated concentration

M1 - Matrix spike recovery was high; the method control sample recovery was acceptable.

M2 - Matrix spike recovery was low; the method control sample recovery was acceptable.

M3 - The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

mg/L - milligram per Liter

pCi/L - picocurie per Liter

SU - standard unit

U - nondetect

Y2 - MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.

ATTACHMENT 1 – SANITAS™ STATISTICAL OUTPUTS FOR PHASE II CCR LANFDILL COMPLIANCE MONITORING NETWORK

Prediction Limit

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile Printed 7/22/2025, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	MW-5	0.0025	n/a	4/29/2025	0.0025ND	No	24	66.67	n/a	0.0378	NP Inter (NDs)
Antimony (mg/L)	MW-6	0.0025	n/a	4/29/2025	0.0025ND	No	24	66.67	n/a	0.0378	NP Inter (NDs)
Antimony (mg/L)	MW-7	0.0025	n/a	4/29/2025	0.0025ND	No	24	66.67	n/a	0.0378	NP Inter (NDs)
Antimony (mg/L)	MW-10	0.0025	n/a	4/29/2025	0.0025ND	No	24	66.67	n/a	0.0378	NP Inter (NDs)
Arsenic (ug/L)	MW-5	14.4	n/a	4/29/2025	3.2	No	24	0	n/a	0.0378	NP Inter (normality)
Arsenic (ug/L)	MW-6	14.4	n/a	4/29/2025	4.4	No	24	0	n/a	0.0378	NP Inter (normality)
Arsenic (ug/L)	MW-7	14.4	n/a	4/29/2025	5	No	24	0	n/a	0.0378	NP Inter (normality)
Arsenic (ug/L)	MW-10	14.4	n/a	4/29/2025	1.6	No	24	0	n/a	0.0378	NP Inter (normality)
Barium (ug/L)	MW-5	70	n/a	4/29/2025	13	No	23	0	n/a	0.03929	NP Inter (normality)
Barium (ug/L)	MW-6	70	n/a	4/29/2025	12	No	23	0	n/a	0.03929	NP Inter (normality)
Barium (ug/L)	MW-7	70	n/a	4/29/2025	15	No	23	0	n/a	0.03929	NP Inter (normality)
Barium (ug/L)	MW-10	70	n/a	4/29/2025	8	No	23	0	n/a	0.03929	NP Inter (normality)
Beryllium (ug/L)	MW-5	2	n/a	4/29/2025	1ND	No	23	100	n/a	0.03929	NP Inter (NDs)
Beryllium (ug/L)	MW-6	2	n/a	4/29/2025	1ND	No	23	100	n/a	0.03929	NP Inter (NDs)
Beryllium (ug/L)	MW-7	2	n/a	4/29/2025	1ND	No	23	100	n/a	0.03929	NP Inter (NDs)
Beryllium (ug/L)	MW-10	2	n/a	4/29/2025	1ND	No	23	100	n/a	0.03929	NP Inter (NDs)
Boron (ug/L)	**MW-5**	**51.8**	**n/a**	**4/29/2025**	**960**	**Yes**	**25**	**56**	**n/a**	**0.03643**	**NP Inter (NDs)**
Boron (ug/L)	**MW-6**	**51.8**	**n/a**	**4/29/2025**	**800**	**Yes**	**25**	**56**	**n/a**	**0.03643**	**NP Inter (NDs)**
Boron (ug/L)	**MW-7**	**51.8**	**n/a**	**4/29/2025**	**6870**	**Yes**	**25**	**56**	**n/a**	**0.03643**	**NP Inter (NDs)**
Boron (ug/L)	**MW-10**	**51.8**	**n/a**	**4/29/2025**	**390**	**Yes**	**25**	**56**	**n/a**	**0.03643**	**NP Inter (NDs)**
Cadmium (ug/L)	MW-5	0.5	n/a	4/29/2025	0.5ND	No	23	91.3	n/a	0.03929	NP Inter (NDs)
Cadmium (ug/L)	MW-6	0.5	n/a	4/29/2025	0.5ND	No	23	91.3	n/a	0.03929	NP Inter (NDs)
Cadmium (ug/L)	MW-7	0.5	n/a	4/29/2025	0.5ND	No	23	91.3	n/a	0.03929	NP Inter (NDs)
Cadmium (ug/L)	MW-10	0.5	n/a	4/29/2025	0.1J	No	23	91.3	n/a	0.03929	NP Inter (NDs)
Calcium (ug/L)	**MW-5**	**349000**	**n/a**	**4/29/2025**	**789000**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Calcium (ug/L)	**MW-6**	**349000**	**n/a**	**4/29/2025**	**542000**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Calcium (ug/L)	**MW-7**	**349000**	**n/a**	**4/29/2025**	**545000**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Calcium (ug/L)	**MW-10**	**349000**	**n/a**	**4/29/2025**	**471000**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Chloride (mg/L)	**MW-5**	**5.532**	**n/a**	**4/29/2025**	**276**	**Yes**	**25**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-6**	**5.532**	**n/a**	**4/29/2025**	**29.9**	**Yes**	**25**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-7**	**5.532**	**n/a**	**4/29/2025**	**222**	**Yes**	**25**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-10**	**5.532**	**n/a**	**4/29/2025**	**51.1**	**Yes**	**25**	**0**	**No**	**0.01**	**Param Inter**
Chromium (ug/L)	MW-5	22.4	n/a	4/29/2025	0.6J	No	24	29.17	n/a	0.0378	NP Inter (normality)
Chromium (ug/L)	MW-6	22.4	n/a	4/29/2025	0.3ND	No	24	29.17	n/a	0.0378	NP Inter (normality)
Chromium (ug/L)	MW-7	22.4	n/a	4/29/2025	0.6J	No	24	29.17	n/a	0.0378	NP Inter (normality)
Chromium (ug/L)	MW-10	22.4	n/a	4/29/2025	0.3ND	No	24	29.17	n/a	0.0378	NP Inter (normality)
Cobalt (ug/L)	MW-5	9	n/a	4/29/2025	6	No	23	52.17	n/a	0.03929	NP Inter (NDs)
Cobalt (ug/L)	MW-6	9	n/a	4/29/2025	9	No	23	52.17	n/a	0.03929	NP Inter (NDs)
Cobalt (ug/L)	MW-7	9	n/a	4/29/2025	2ND	No	23	52.17	n/a	0.03929	NP Inter (NDs)
Cobalt (ug/L)	**MW-10**	**9**	**n/a**	**4/29/2025**	**79**	**Yes**	**23**	**52.17**	**n/a**	**0.03929**	**NP Inter (NDs)**
Fluoride (mg/L)	MW-5	0.486	n/a	4/29/2025	1ND	No	22	0	n/a	0.0409	NP Inter (normality)
Fluoride (mg/L)	MW-6	0.486	n/a	4/29/2025	1ND	No	22	0	n/a	0.0409	NP Inter (normality)
Fluoride (mg/L)	MW-7	0.486	n/a	4/29/2025	0.22	No	22	0	n/a	0.0409	NP Inter (normality)
Fluoride (mg/L)	MW-10	0.486	n/a	4/29/2025	1ND	No	22	0	n/a	0.0409	NP Inter (normality)
Lead (ug/L)	MW-5	12	n/a	4/29/2025	0.7J	No	24	62.5	n/a	0.0378	NP Inter (NDs)
Lead (ug/L)	MW-6	12	n/a	4/29/2025	1ND	No	24	62.5	n/a	0.0378	NP Inter (NDs)
Lead (ug/L)	MW-7	12	n/a	4/29/2025	1ND	No	24	62.5	n/a	0.0378	NP Inter (NDs)
Lead (ug/L)	MW-10	12	n/a	4/29/2025	1ND	No	24	62.5	n/a	0.0378	NP Inter (NDs)
Lithium (ug/L)	**MW-5**	**20**	**n/a**	**4/29/2025**	**40**	**Yes**	**24**	**16.67**	**n/a**	**0.0378**	**NP Inter (normality)**
Lithium (ug/L)	**MW-6**	**20**	**n/a**	**4/29/2025**	**40**	**Yes**	**24**	**16.67**	**n/a**	**0.0378**	**NP Inter (normality)**

Prediction Limit

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile Printed 7/22/2025, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Lithium (ug/L)	**MW-7**	**20**	**n/a**	**4/29/2025**	**30**	**Yes**	**24**	**16.67**	**n/a**	**0.0378**	**NP Inter (normality)**
Lithium (ug/L)	MW-10	20	n/a	4/29/2025	7J	No	24	16.67	n/a	0.0378	NP Inter (normality)
Mercury (ug/L)	MW-5	0.005	n/a	4/29/2025	0.0025ND	No	22	100	n/a	0.0409	NP Inter (NDs)
Mercury (ug/L)	MW-6	0.005	n/a	4/29/2025	0.0025ND	No	22	100	n/a	0.0409	NP Inter (NDs)
Mercury (ug/L)	MW-7	0.005	n/a	4/29/2025	0.0025ND	No	22	100	n/a	0.0409	NP Inter (NDs)
Mercury (ug/L)	MW-10	0.005	n/a	4/29/2025	0.0025ND	No	22	100	n/a	0.0409	NP Inter (NDs)
Molybdenum (ug/L)	MW-5	18.7	n/a	4/29/2025	5J	No	24	0	n/a	0.0378	NP Inter (normality)
Molybdenum (ug/L)	MW-6	18.7	n/a	4/29/2025	6J	No	24	0	n/a	0.0378	NP Inter (normality)
Molybdenum (ug/L)	MW-7	18.7	n/a	4/29/2025	5J	No	24	0	n/a	0.0378	NP Inter (normality)
Molybdenum (ug/L)	MW-10	18.7	n/a	4/29/2025	5ND	No	24	0	n/a	0.0378	NP Inter (normality)
pH (SU)	MW-5	6.84	4.67	4/29/2025	6.4	No	24	0	n/a	0.07561	NP Inter (normality)
pH (SU)	MW-6	6.84	4.67	4/29/2025	6.4	No	24	0	n/a	0.07561	NP Inter (normality)
pH (SU)	MW-7	6.84	4.67	4/29/2025	6.54	No	24	0	n/a	0.07561	NP Inter (normality)
pH (SU)	MW-10	6.84	4.67	4/29/2025	5.98	No	24	0	n/a	0.07561	NP Inter (normality)
Radium 226 + 228 (pCi/L)	MW-5	2.94	n/a	4/29/2025	0.881	No	23	0	n/a	0.03929	NP Inter (normality)
Radium 226 + 228 (pCi/L)	MW-6	2.94	n/a	4/29/2025	0.728	No	23	0	n/a	0.03929	NP Inter (normality)
Radium 226 + 228 (pCi/L)	MW-7	2.94	n/a	4/29/2025	1.07	No	23	0	n/a	0.03929	NP Inter (normality)
Radium 226 + 228 (pCi/L)	MW-10	2.94	n/a	4/29/2025	1.14	No	23	0	n/a	0.03929	NP Inter (normality)
Selenium (ug/L)	MW-5	1.5	n/a	4/29/2025	1.5ND	No	23	91.3	n/a	0.03929	NP Inter (NDs)
Selenium (ug/L)	MW-6	1.5	n/a	4/29/2025	1.5ND	No	23	91.3	n/a	0.03929	NP Inter (NDs)
Selenium (ug/L)	MW-7	1.5	n/a	4/29/2025	1.5ND	No	23	91.3	n/a	0.03929	NP Inter (NDs)
Selenium (ug/L)	MW-10	1.5	n/a	4/29/2025	1.5ND	No	23	91.3	n/a	0.03929	NP Inter (NDs)
Sulfate (mg/L)	MW-5	2180	n/a	4/29/2025	1580	No	25	0	n/a	0.03643	NP Inter (normality)
Sulfate (mg/L)	MW-6	2180	n/a	4/29/2025	1650	No	25	0	n/a	0.03643	NP Inter (normality)
Sulfate (mg/L)	MW-7	2180	n/a	4/29/2025	1310	No	25	0	n/a	0.03643	NP Inter (normality)
Sulfate (mg/L)	MW-10	2180	n/a	4/29/2025	1710	No	25	0	n/a	0.03643	NP Inter (normality)
Thallium (ug/L)	MW-5	1	n/a	4/29/2025	1ND	No	24	87.5	n/a	0.0378	NP Inter (NDs)
Thallium (ug/L)	MW-6	1	n/a	4/29/2025	1ND	No	24	87.5	n/a	0.0378	NP Inter (NDs)
Thallium (ug/L)	MW-7	1	n/a	4/29/2025	1ND	No	24	87.5	n/a	0.0378	NP Inter (NDs)
Thallium (ug/L)	MW-10	1	n/a	4/29/2025	1ND	No	24	87.5	n/a	0.0378	NP Inter (NDs)
Total Dissolved Solids (mg/L)	**MW-5**	**1750**	**n/a**	**4/29/2025**	**3540**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-6**	**1750**	**n/a**	**4/29/2025**	**2630**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-7**	**1750**	**n/a**	**4/29/2025**	**2240**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-10**	**1750**	**n/a**	**4/29/2025**	**1910**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**

Prediction Limit

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile Printed 7/22/2025, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (ug/L)	**MW-5**	**51.8**	**n/a**	**4/29/2025**	**960**	**Yes**	**25**	**56**	**n/a**	**0.03643**	**NP Inter (NDs)**
Boron (ug/L)	**MW-6**	**51.8**	**n/a**	**4/29/2025**	**800**	**Yes**	**25**	**56**	**n/a**	**0.03643**	**NP Inter (NDs)**
Boron (ug/L)	**MW-7**	**51.8**	**n/a**	**4/29/2025**	**6870**	**Yes**	**25**	**56**	**n/a**	**0.03643**	**NP Inter (NDs)**
Boron (ug/L)	**MW-10**	**51.8**	**n/a**	**4/29/2025**	**390**	**Yes**	**25**	**56**	**n/a**	**0.03643**	**NP Inter (NDs)**
Calcium (ug/L)	**MW-5**	**349000**	**n/a**	**4/29/2025**	**789000**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Calcium (ug/L)	**MW-6**	**349000**	**n/a**	**4/29/2025**	**542000**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Calcium (ug/L)	**MW-7**	**349000**	**n/a**	**4/29/2025**	**545000**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Calcium (ug/L)	**MW-10**	**349000**	**n/a**	**4/29/2025**	**471000**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Chloride (mg/L)	**MW-5**	**5.532**	**n/a**	**4/29/2025**	**276**	**Yes**	**25**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-6**	**5.532**	**n/a**	**4/29/2025**	**29.9**	**Yes**	**25**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-7**	**5.532**	**n/a**	**4/29/2025**	**222**	**Yes**	**25**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-10**	**5.532**	**n/a**	**4/29/2025**	**51.1**	**Yes**	**25**	**0**	**No**	**0.01**	**Param Inter**
Cobalt (ug/L)	**MW-10**	**9**	**n/a**	**4/29/2025**	**79**	**Yes**	**23**	**52.17**	**n/a**	**0.03929**	**NP Inter (NDs)**
Lithium (ug/L)	**MW-5**	**20**	**n/a**	**4/29/2025**	**40**	**Yes**	**24**	**16.67**	**n/a**	**0.0378**	**NP Inter (normality)**
Lithium (ug/L)	**MW-6**	**20**	**n/a**	**4/29/2025**	**40**	**Yes**	**24**	**16.67**	**n/a**	**0.0378**	**NP Inter (normality)**
Lithium (ug/L)	**MW-7**	**20**	**n/a**	**4/29/2025**	**30**	**Yes**	**24**	**16.67**	**n/a**	**0.0378**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-5**	**1750**	**n/a**	**4/29/2025**	**3540**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-6**	**1750**	**n/a**	**4/29/2025**	**2630**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-7**	**1750**	**n/a**	**4/29/2025**	**2240**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-10**	**1750**	**n/a**	**4/29/2025**	**1910**	**Yes**	**25**	**0**	**n/a**	**0.03643**	**NP Inter (normality)**

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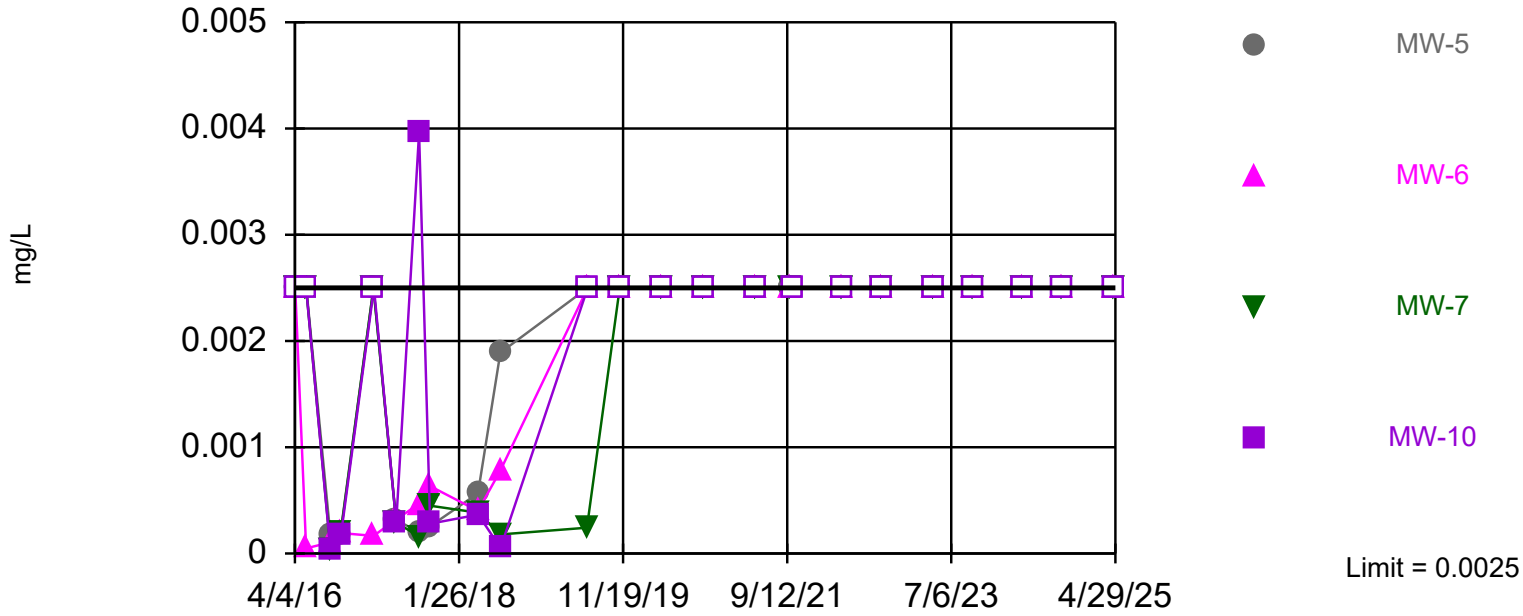
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 66.67% NDs. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Antimony Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

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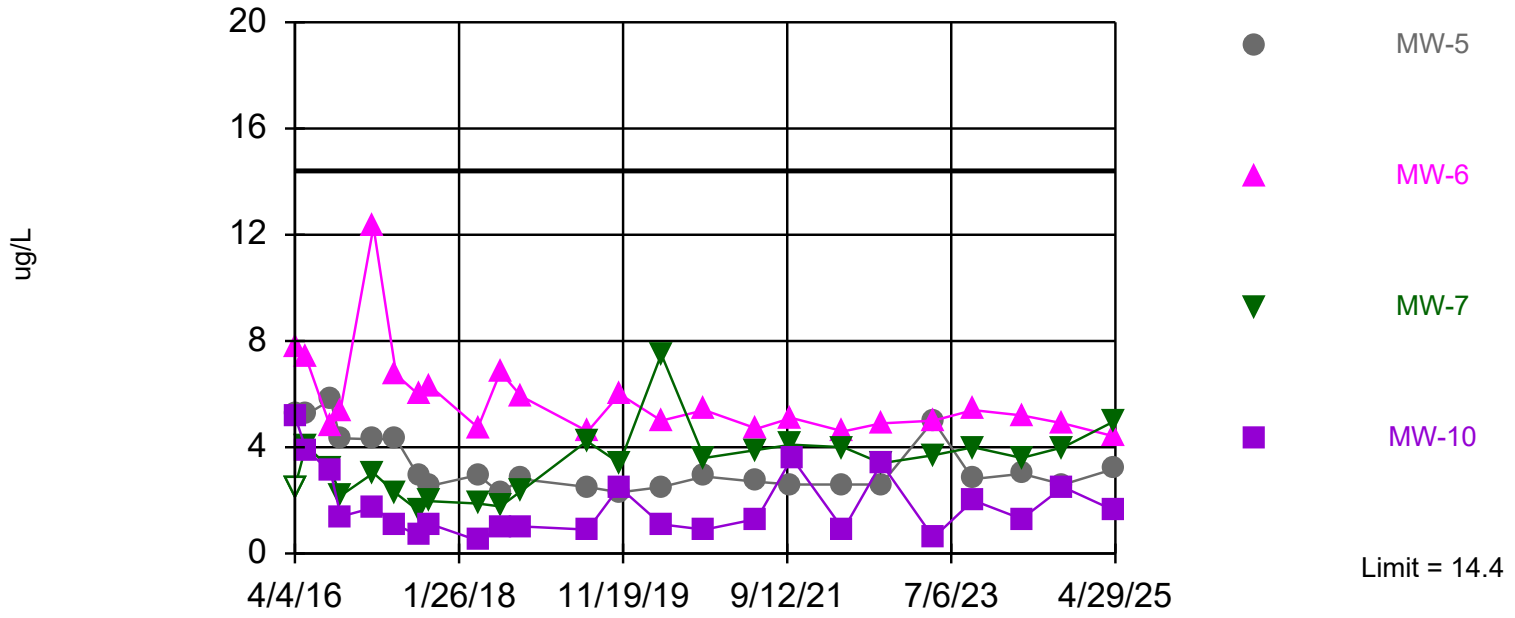
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 24 background values. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Arsenic Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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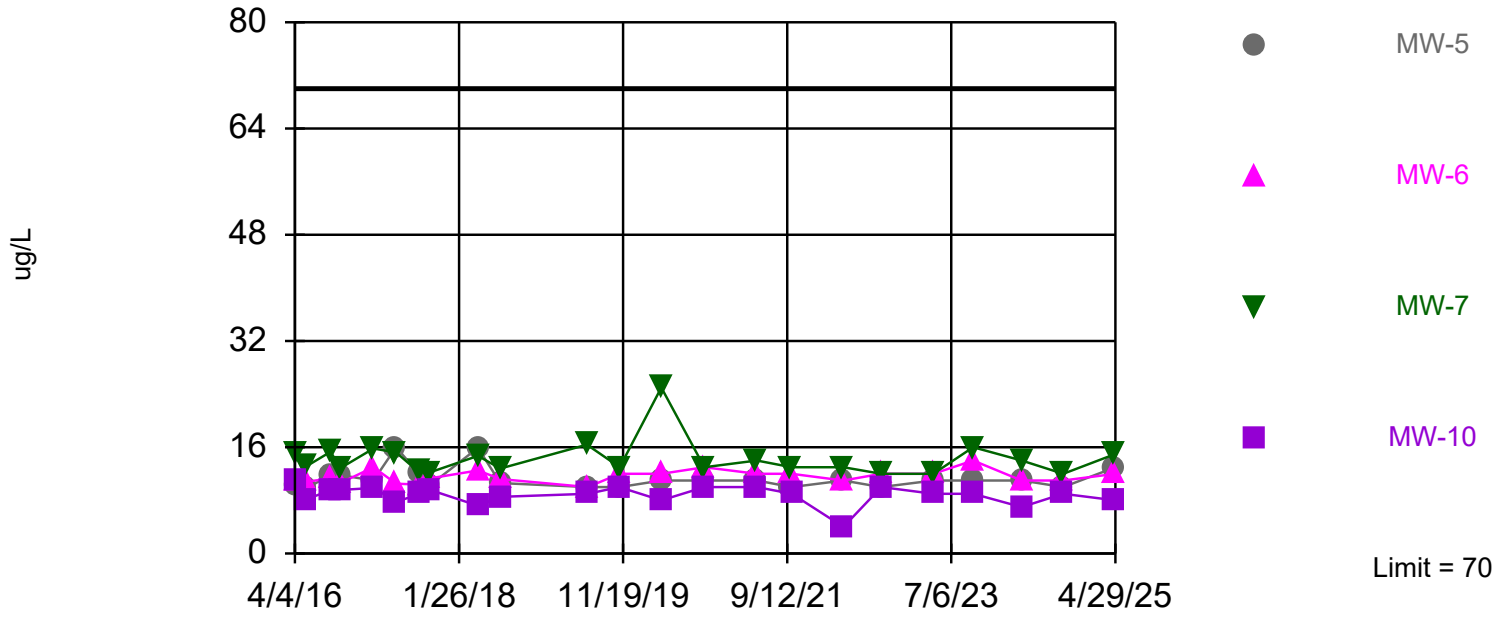
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 23 background values. Report alpha = 0.1481. Individual comparison alpha = 0.03929. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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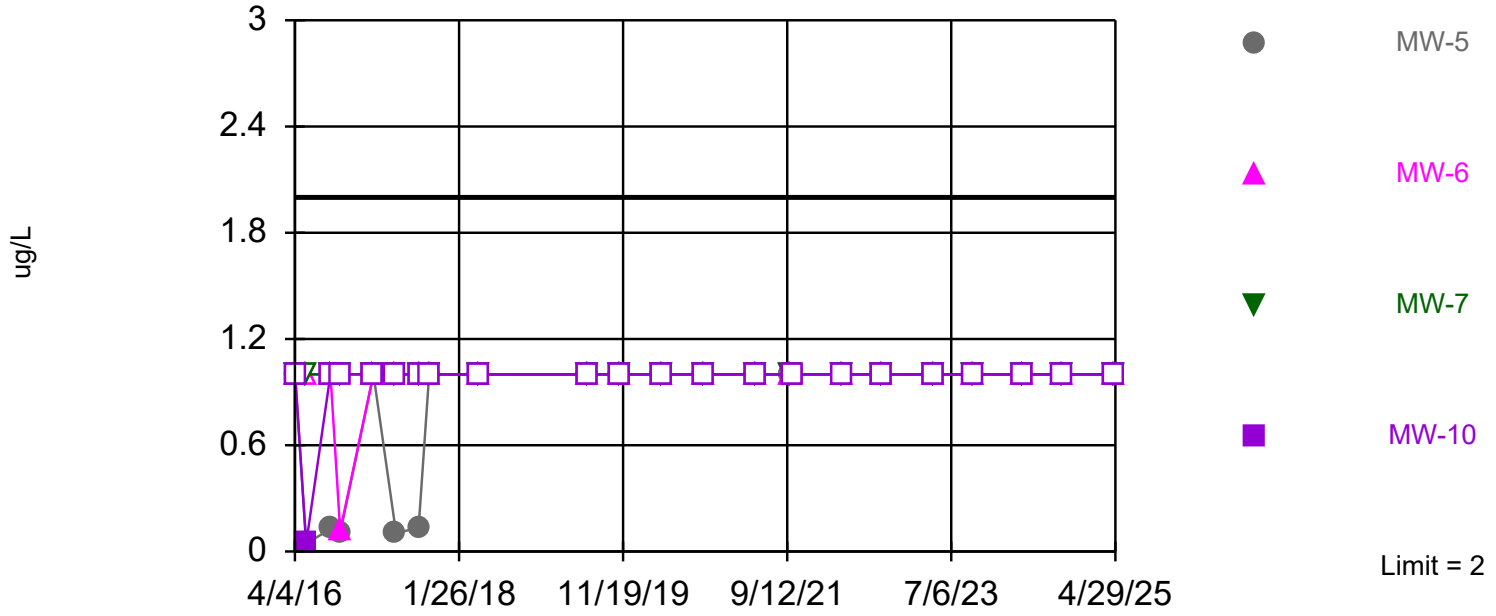
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Report alpha = 0.1481. Individual comparison alpha = 0.03929. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Beryllium Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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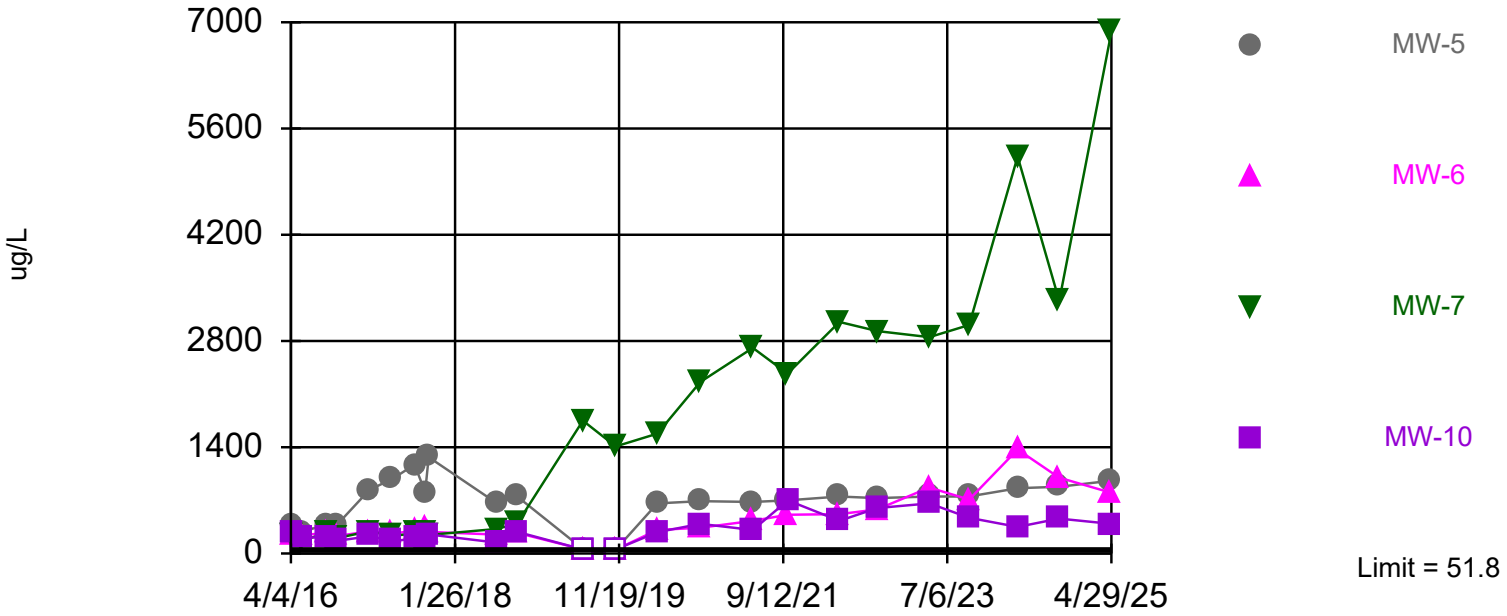
Hollow symbols indicate censored values.

Exceeds Limit: MW-5, MW-6, MW-7, MW-10

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 56% NDs. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Boron Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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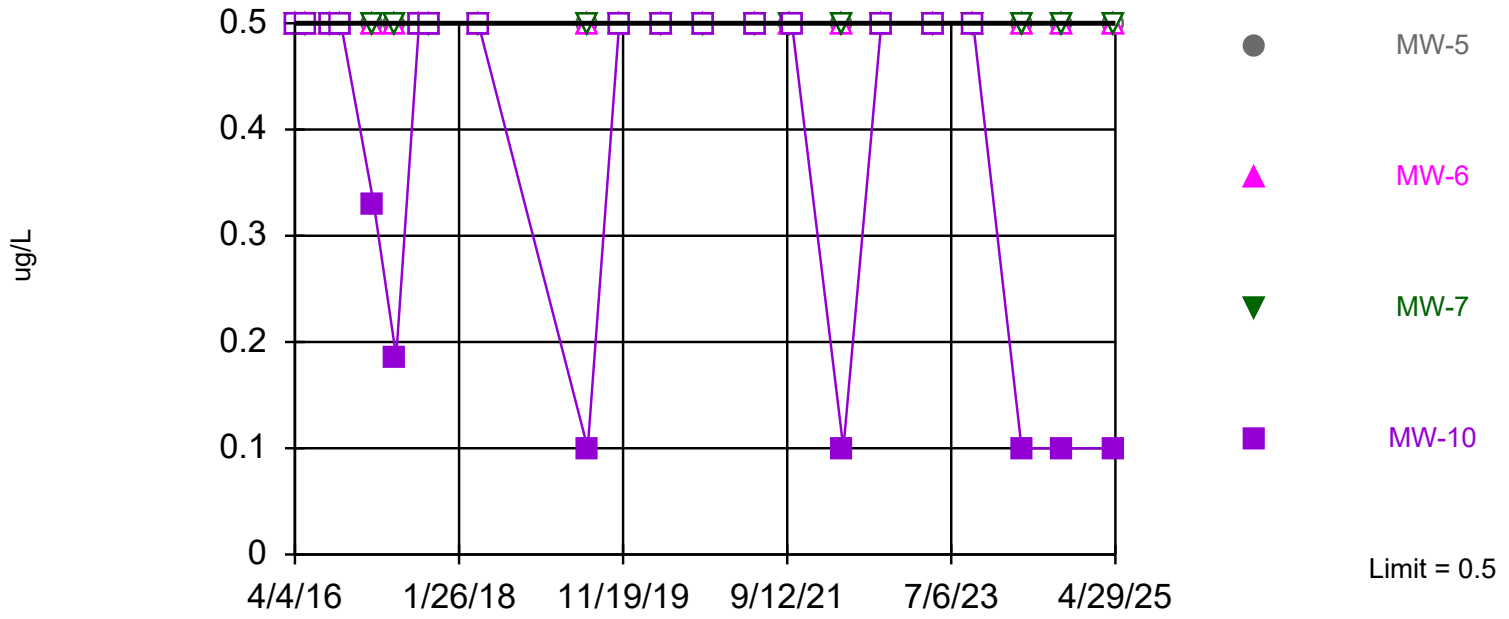
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Report alpha = 0.1481. Individual comparison alpha = 0.03929. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Cadmium Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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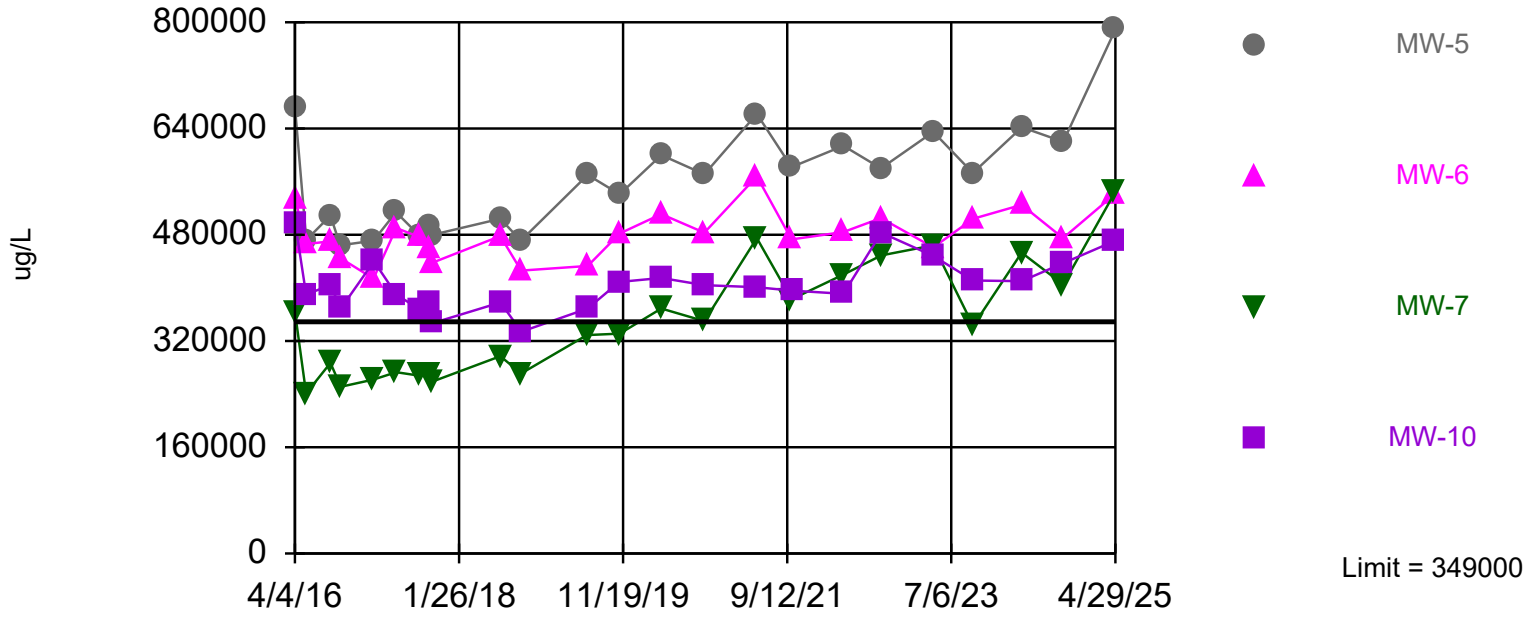
Exceeds Limit: MW-5, MW-6, MW-7, MW-10

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Calcium Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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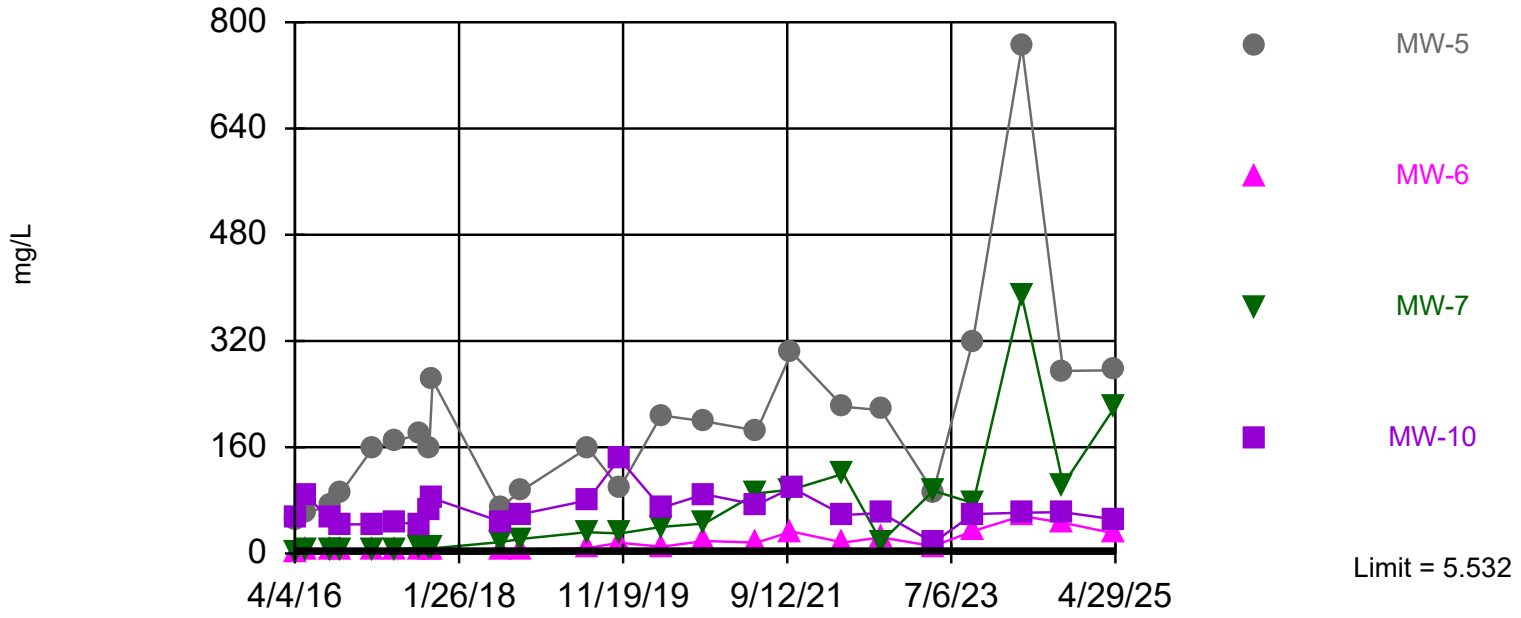
Exceeds Limit: MW-5, MW-6, MW-7, MW-10

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=4.231, Std. Dev.=0.5117, n=25. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9219, critical = 0.918. Report alpha = 0.0394. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit. EPA 1989 outlier screening was performed on the background data. No background outliers were found.

Constituent: Chloride Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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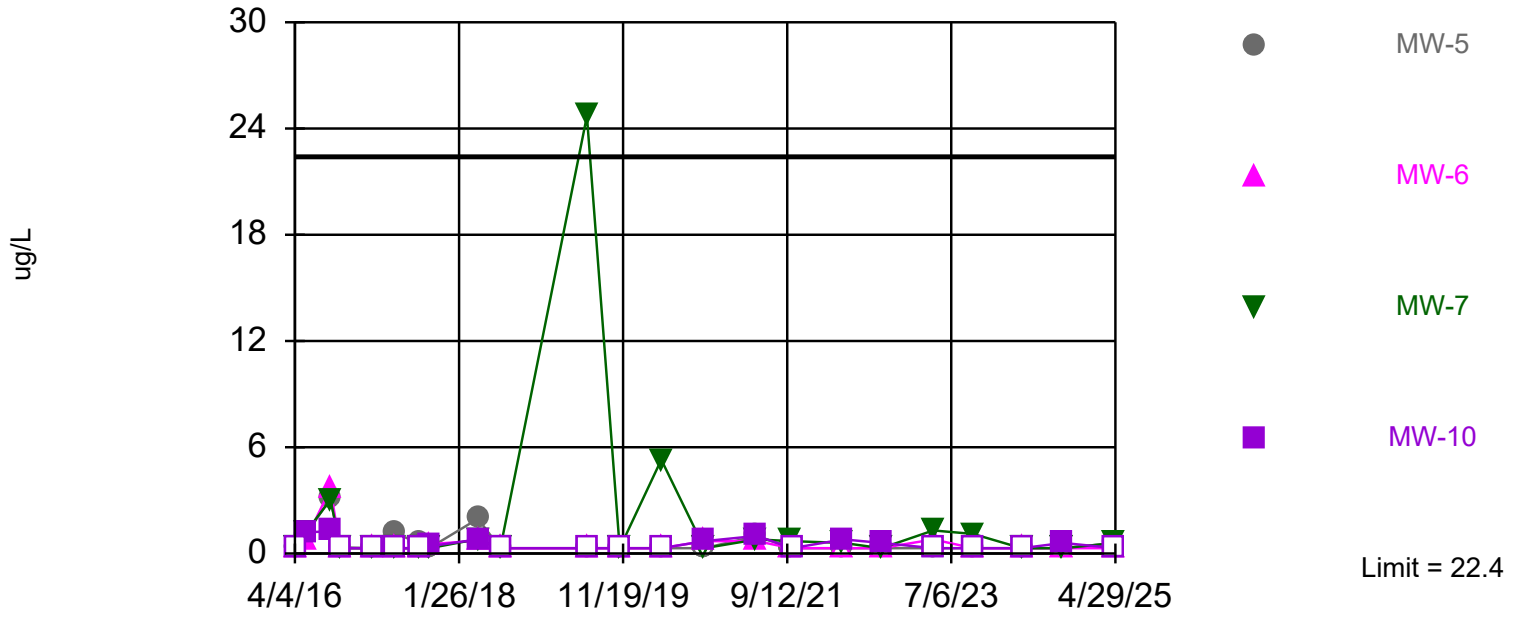
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 24 background values. 29.17% NDs. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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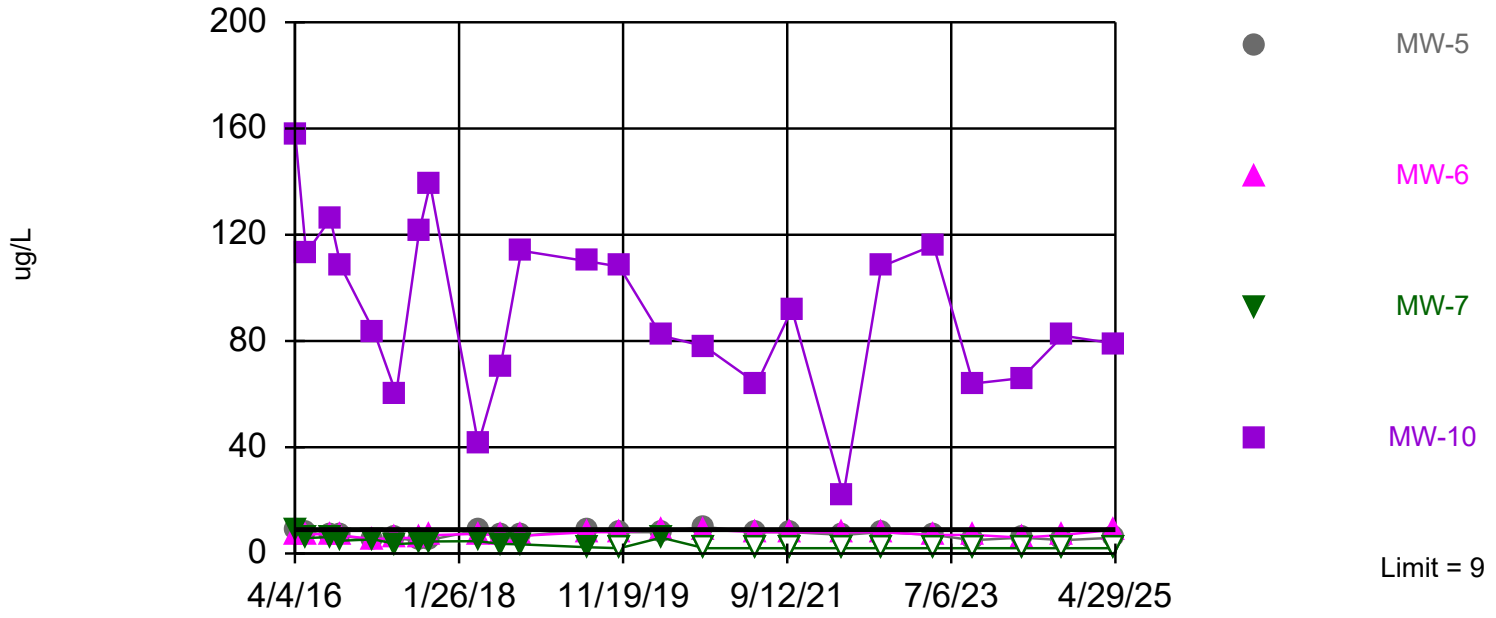
Hollow symbols indicate censored values.

Exceeds Limit: MW-10

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 52.17% NDs. Report alpha = 0.1481. Individual comparison alpha = 0.03929. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

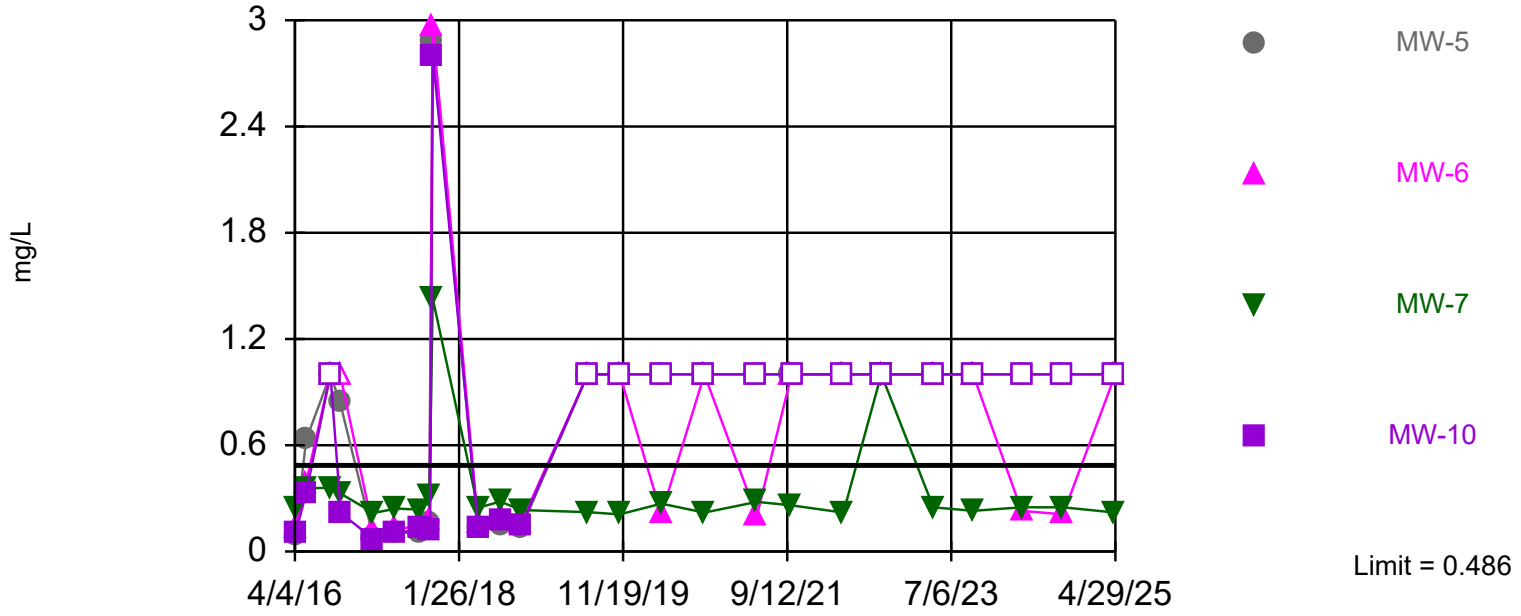
Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Sanitas™ v.10.0.27 Software licensed to Burns & McDonnell. EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 22 background values. Report alpha = 0.1538. Individual comparison alpha = 0.0409. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Fluoride Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

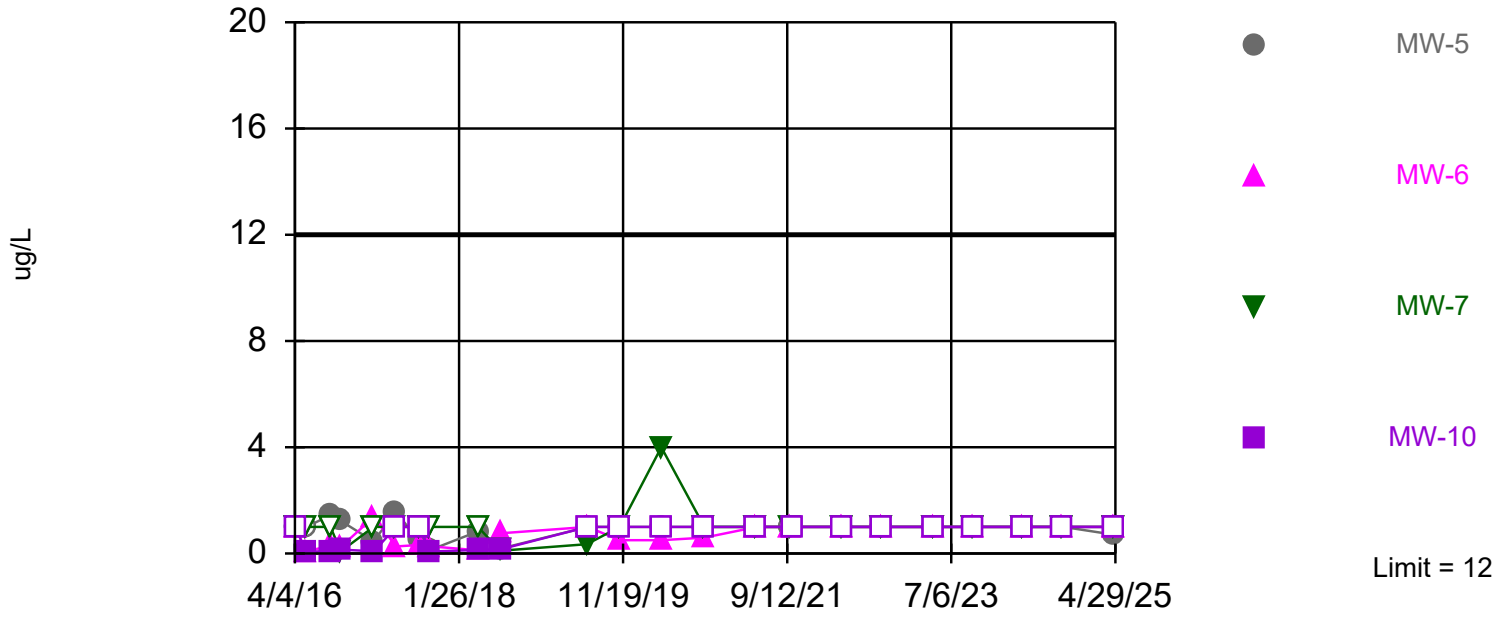
Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Sanitas™ v.10.0.27 Software licensed to Burns & McDonnell. EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

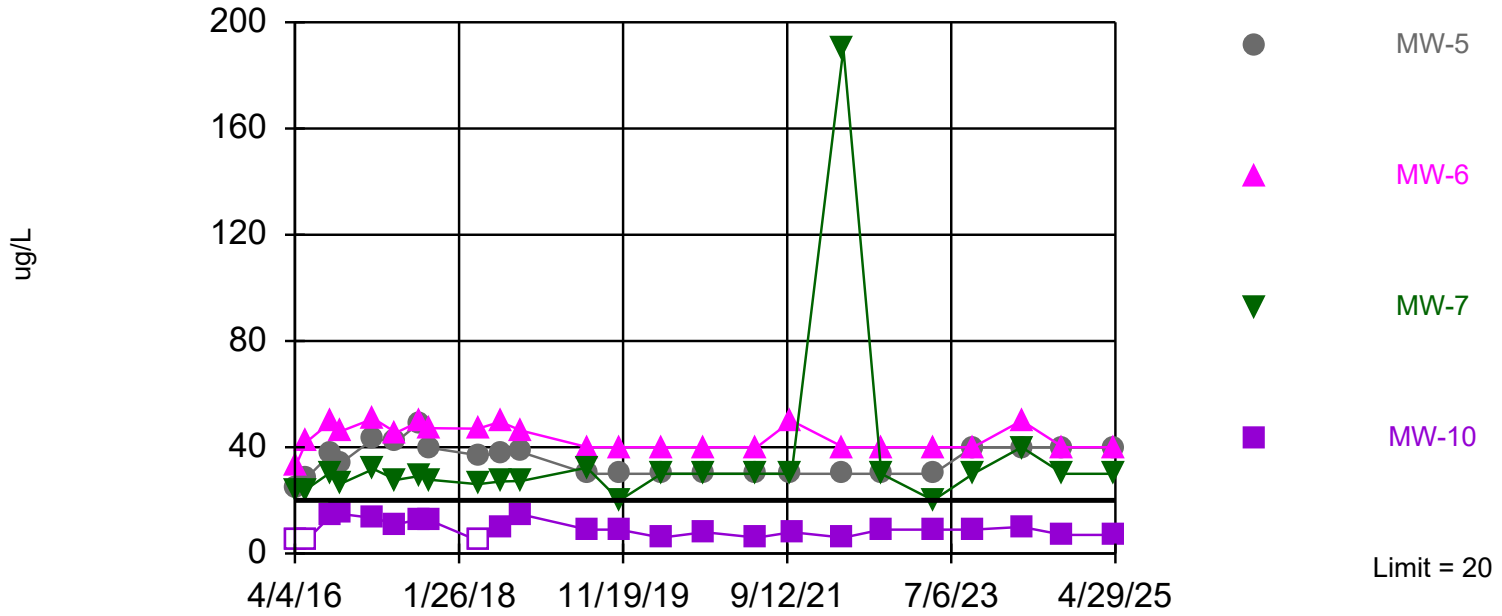
Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Sanitas™ v.10.0.27 Software licensed to Burns & McDonnell. EPA
Hollow symbols indicate censored values.

Exceeds Limit: MW-5, MW-6, MW-7

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 24 background values. 16.67% NDs. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Lithium Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

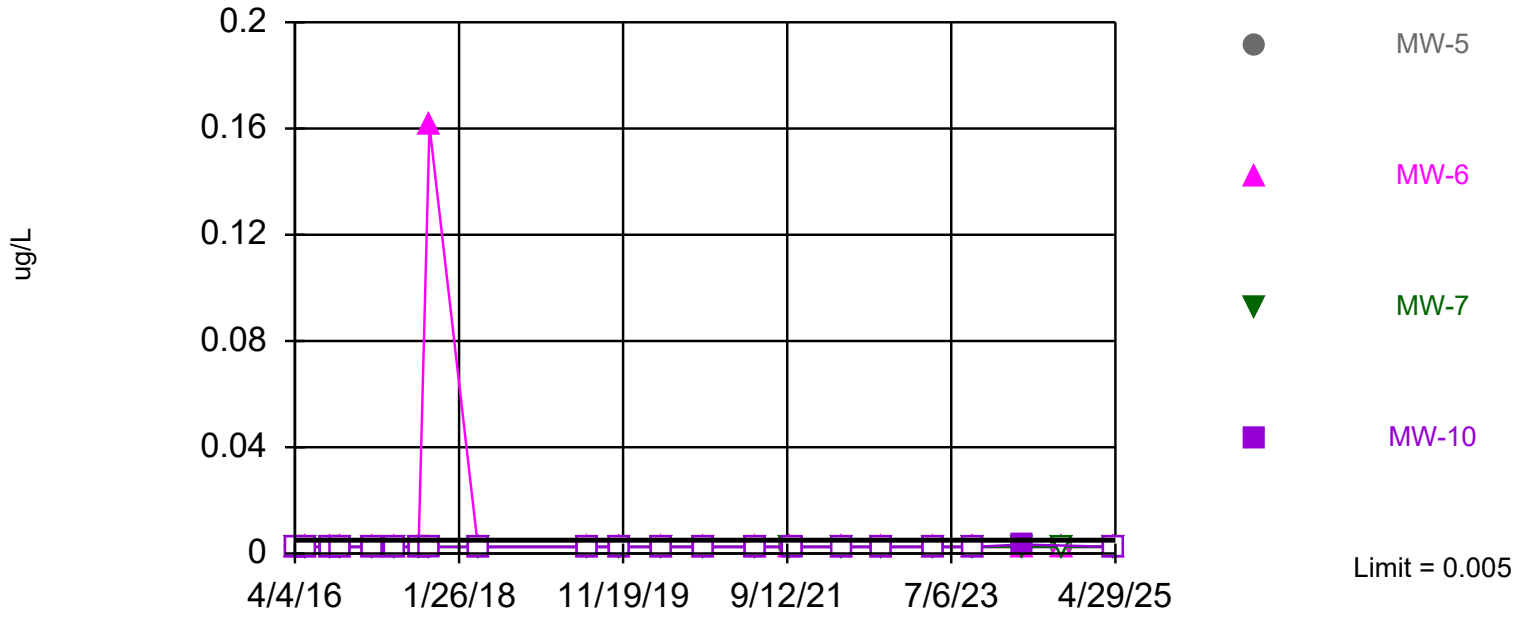
Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Sanitas™ v.10.0.27 Software licensed to Burns & McDonnell. EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Report alpha = 0.1538. Individual comparison alpha = 0.0409. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Mercury Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

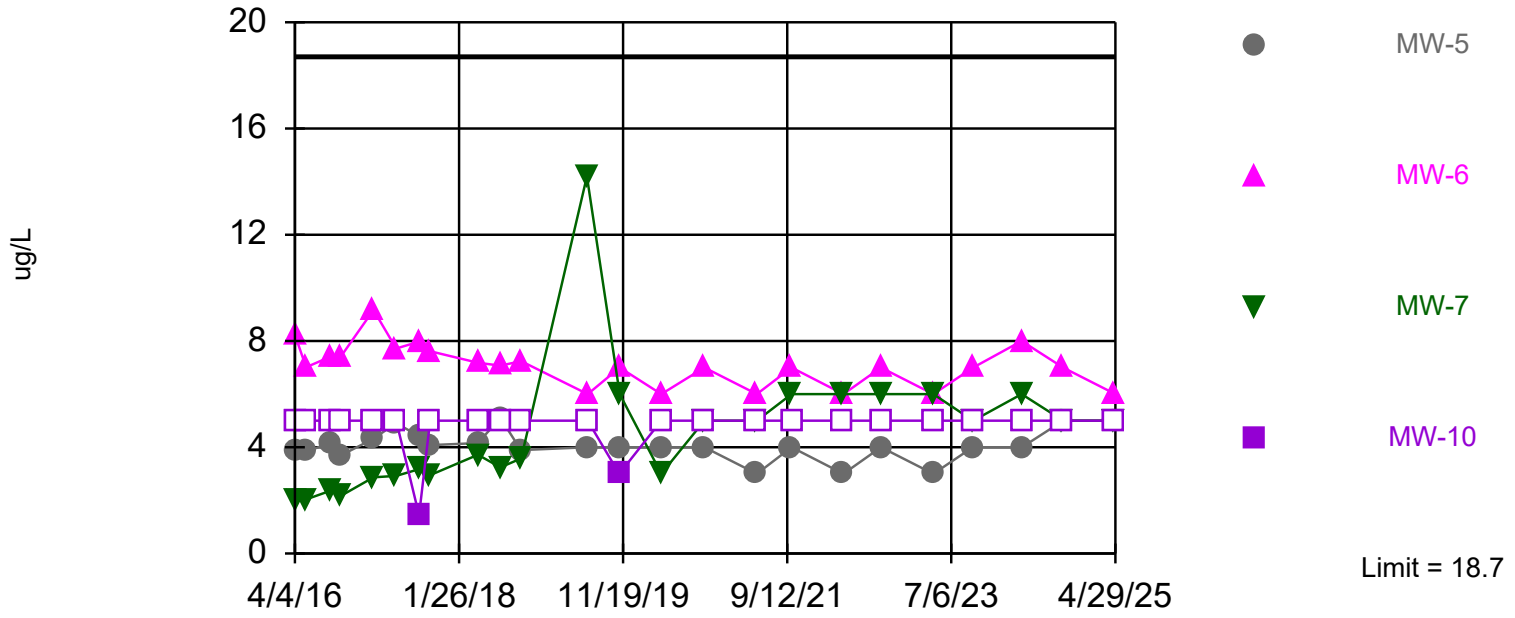
Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Sanitas™ v.10.0.27 Software licensed to Burns & McDonnell. EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 24 background values. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Molybdenum Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

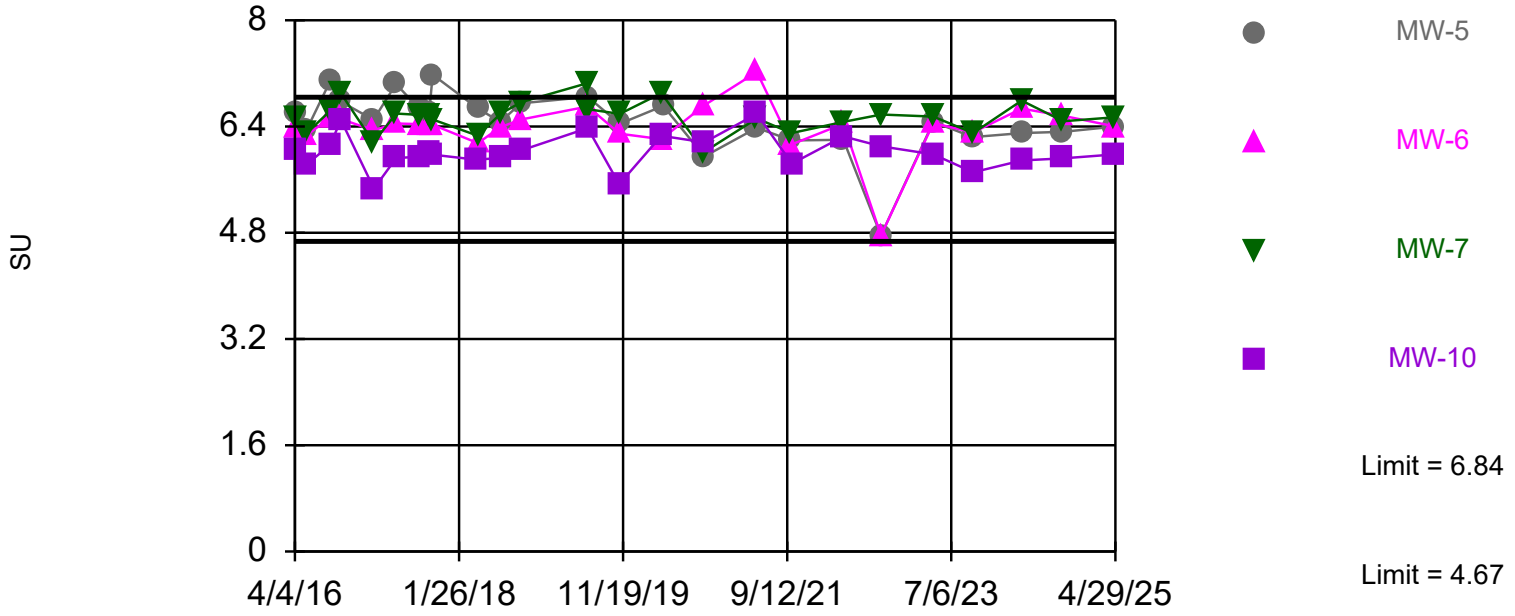
Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Sanitas™ v.10.0.27 Software licensed to Burns & McDonnell. EPA

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 24 background values. Report alpha = 0.2857. Individual comparison alpha = 0.07561. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: pH Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

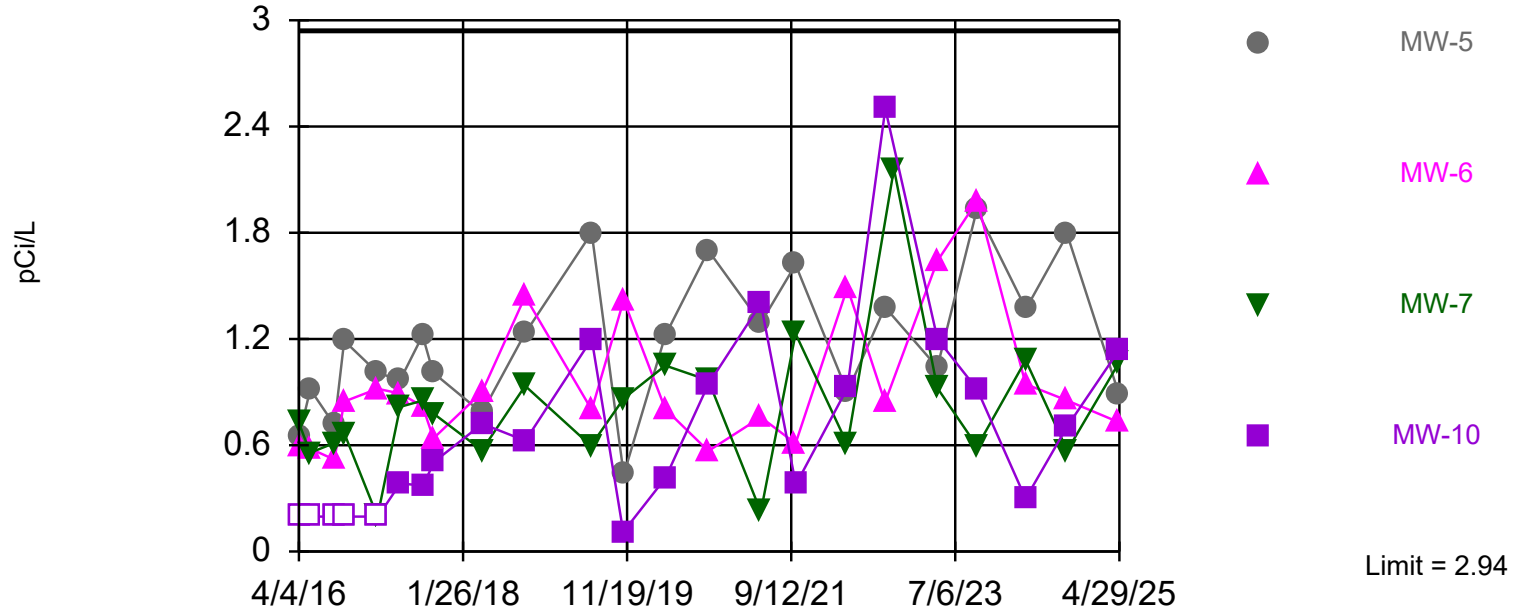
Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Sanitas™ v.10.0.27 Software licensed to Burns & McDonnell. EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 23 background values. Report alpha = 0.1481. Individual comparison alpha = 0.03929. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Radium 226 + 228 Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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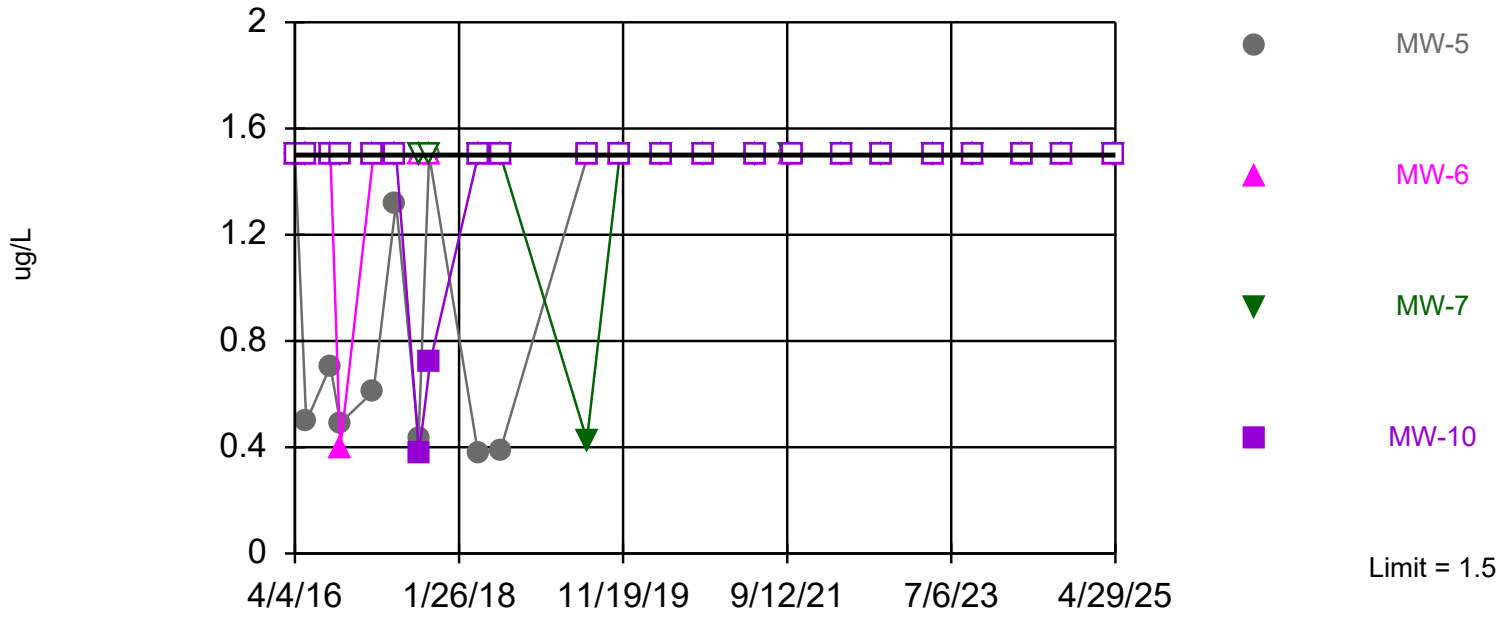
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Report alpha = 0.1481. Individual comparison alpha = 0.03929. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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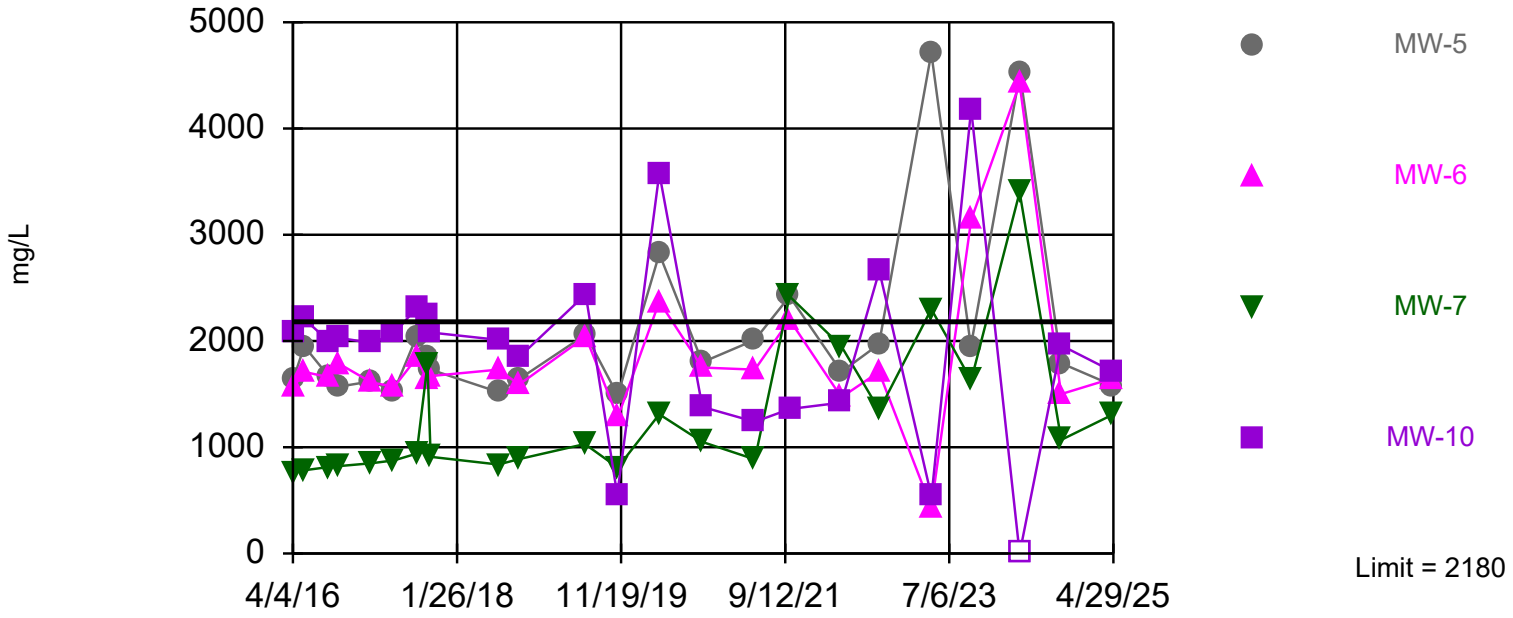
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Sulfate Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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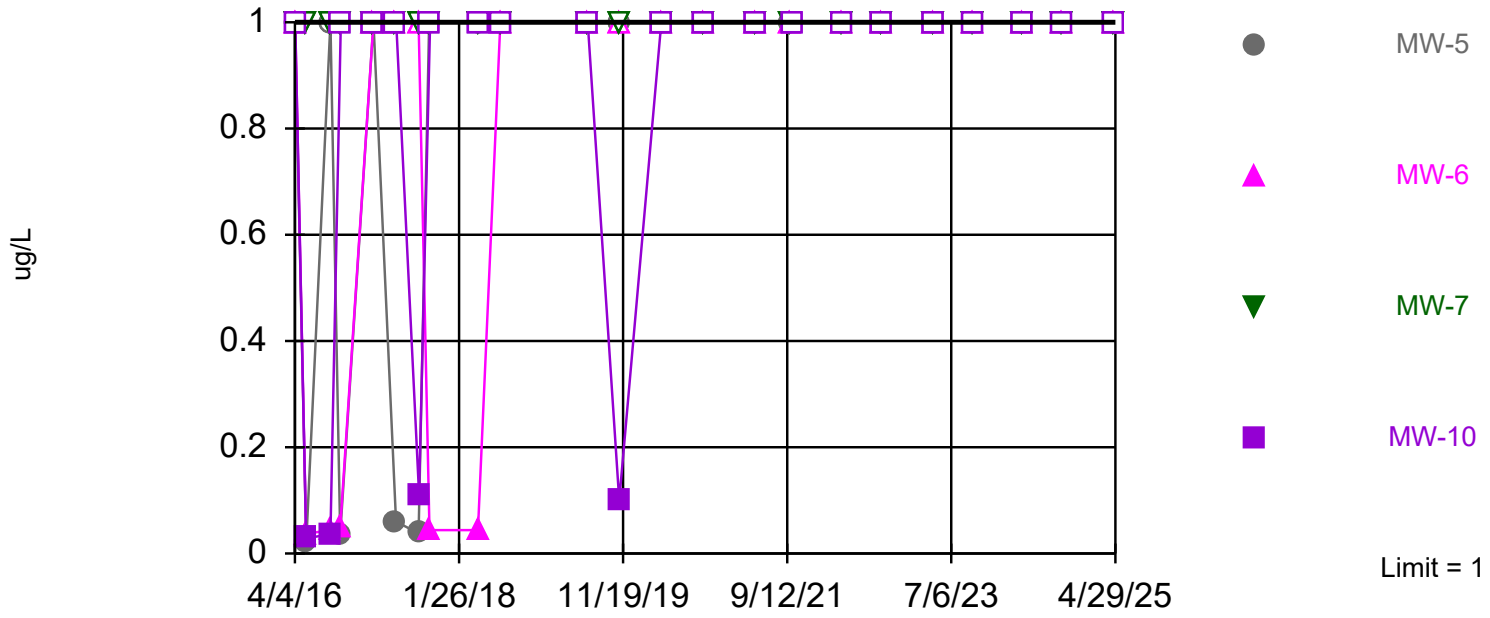
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 87.5% NDs. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

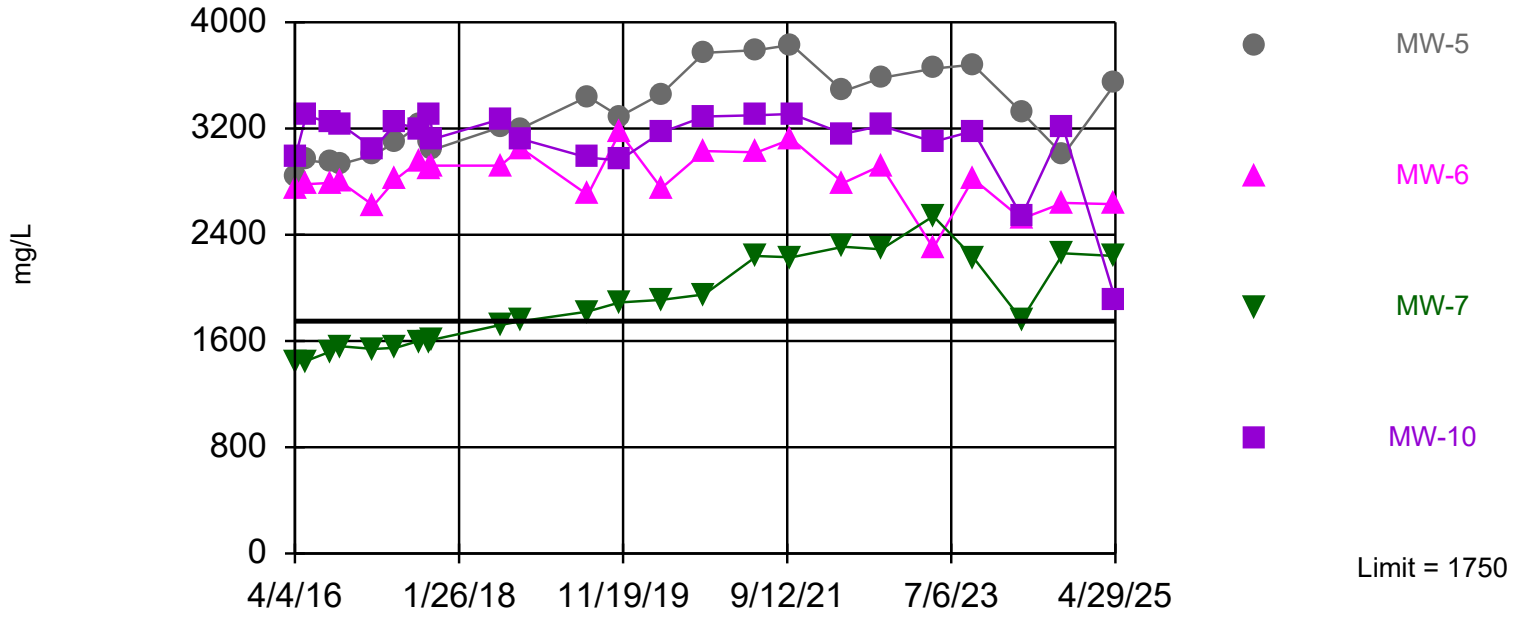
Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Sanitas™ v.10.0.27 Software licensed to Burns & McDonnell. EPA

Exceeds Limit: MW-5, MW-6, MW-7, MW-10

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Total Dissolved Solids Analysis Run 7/22/2025 9:53 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Confidence Interval

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile Printed 7/22/2025, 9:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (ug/L)	MW-5	7.541	6.502	9	No	24	0	No	0.05	Param.
Cobalt (ug/L)	MW-6	7.657	6.963	9	No	24	0	No	0.05	Param.
Cobalt (ug/L)	MW-7	4.54	2	9	No	24	45.83	No	0.05	NP (normality)
Cobalt (ug/L)	MW-8 (bg)	2	1.18	9	No	24	50	No	0.05	NP (normality)
Cobalt (ug/L)	**MW-10**	**103**	**80.83**	**9**	**Yes**	**24**	**0**	**No**	**0.05**	**Param.**
Lithium (ug/L)	MW-5	37.14	32.9	40	No	24	0	No	0.05	Param.
Lithium (ug/L)	MW-6	47	40	40	No	24	0	No	0.05	NP (normality)
Lithium (ug/L)	MW-7	30	27.3	40	No	24	0	No	0.05	NP (normality)
Lithium (ug/L)	MW-8 (bg)	11.91	9.356	40	No	24	16.67	No	0.05	Param.
Lithium (ug/L)	MW-10	10.31	8.084	40	No	24	12.5	No	0.05	Param.
Mercury (ug/L)	MW-5	0.0025	0.0025	2	No	22	100	No	0.05	NP (NDs)
Mercury (ug/L)	MW-6	0.0025	0.0025	2	No	22	95.45	No	0.05	NP (NDs)
Mercury (ug/L)	MW-7	0.0025	0.0025	2	No	22	100	No	0.05	NP (NDs)
Mercury (ug/L)	MW-8 (bg)	0.0025	0.0025	2	No	22	100	No	0.05	NP (NDs)
Mercury (ug/L)	MW-10	0.0025	0.0025	2	No	21	95.24	No	0.05	NP (NDs)

Confidence Interval

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile Printed 7/22/2025, 9:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (ug/L)	**MW-10**	**103**	**80.83**	**9**	**Yes**	**24**	**0**	**No**	**0.05**	**Param.**

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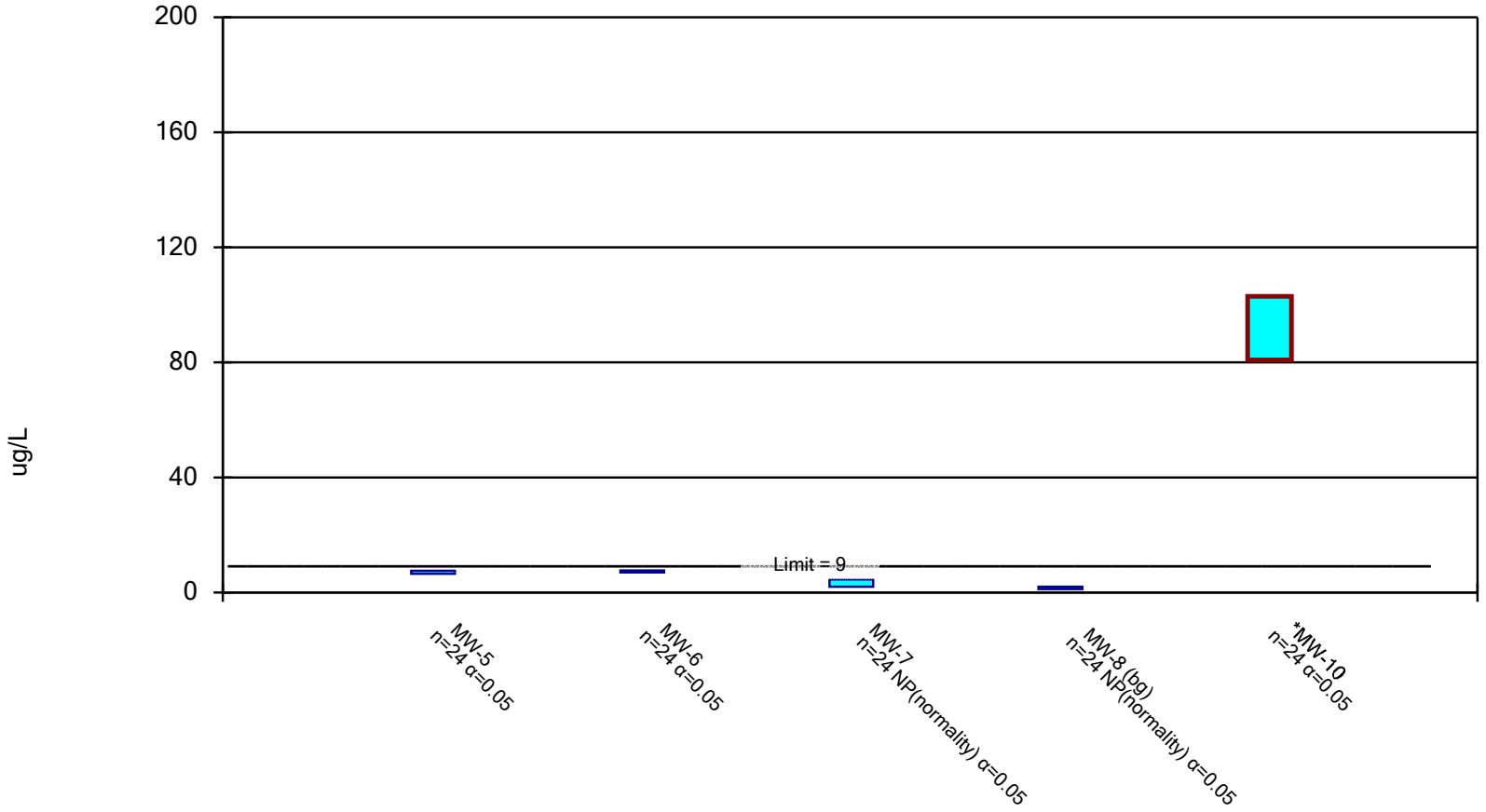
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/22/2025 9:58 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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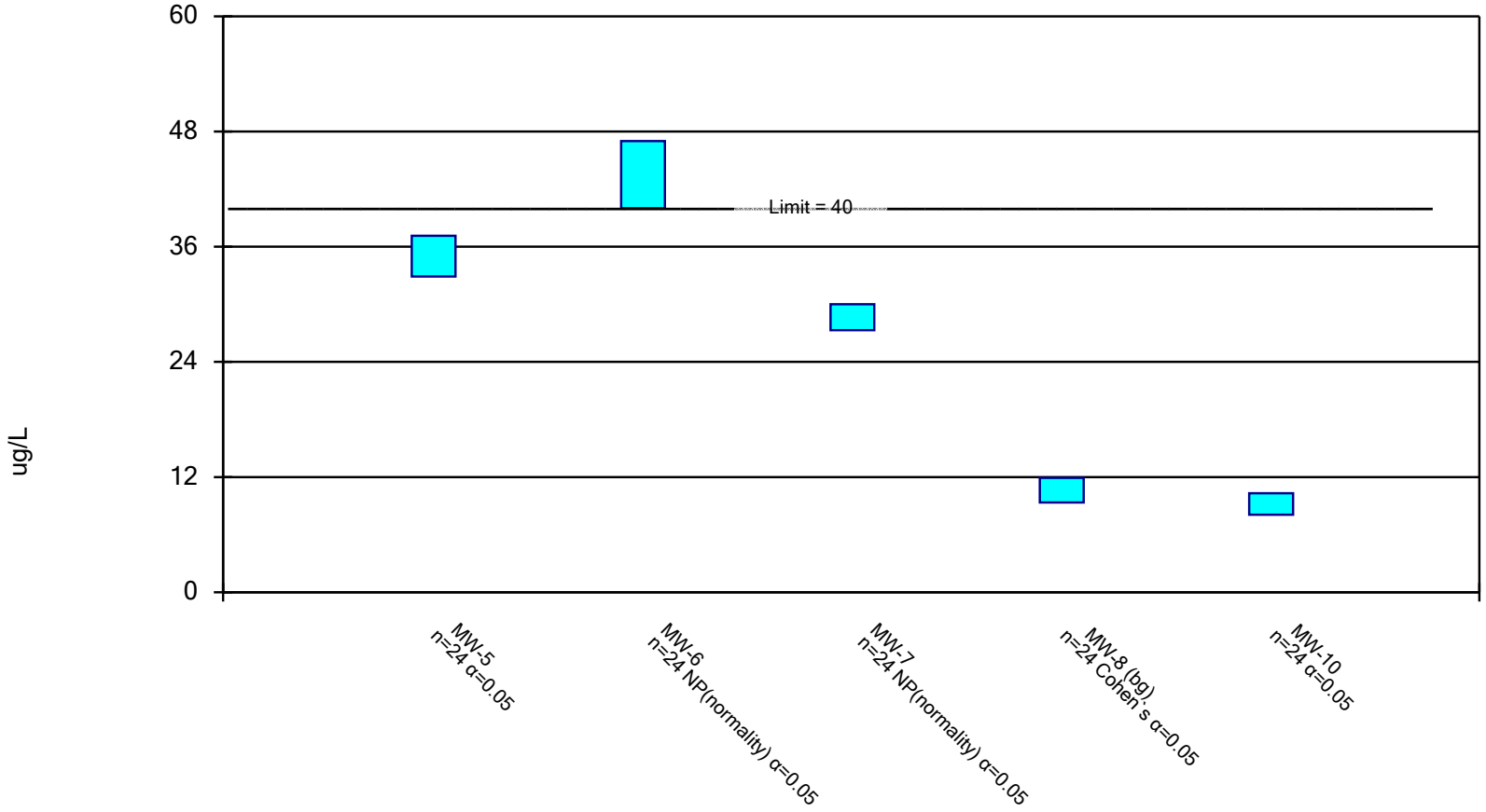
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/22/2025 9:58 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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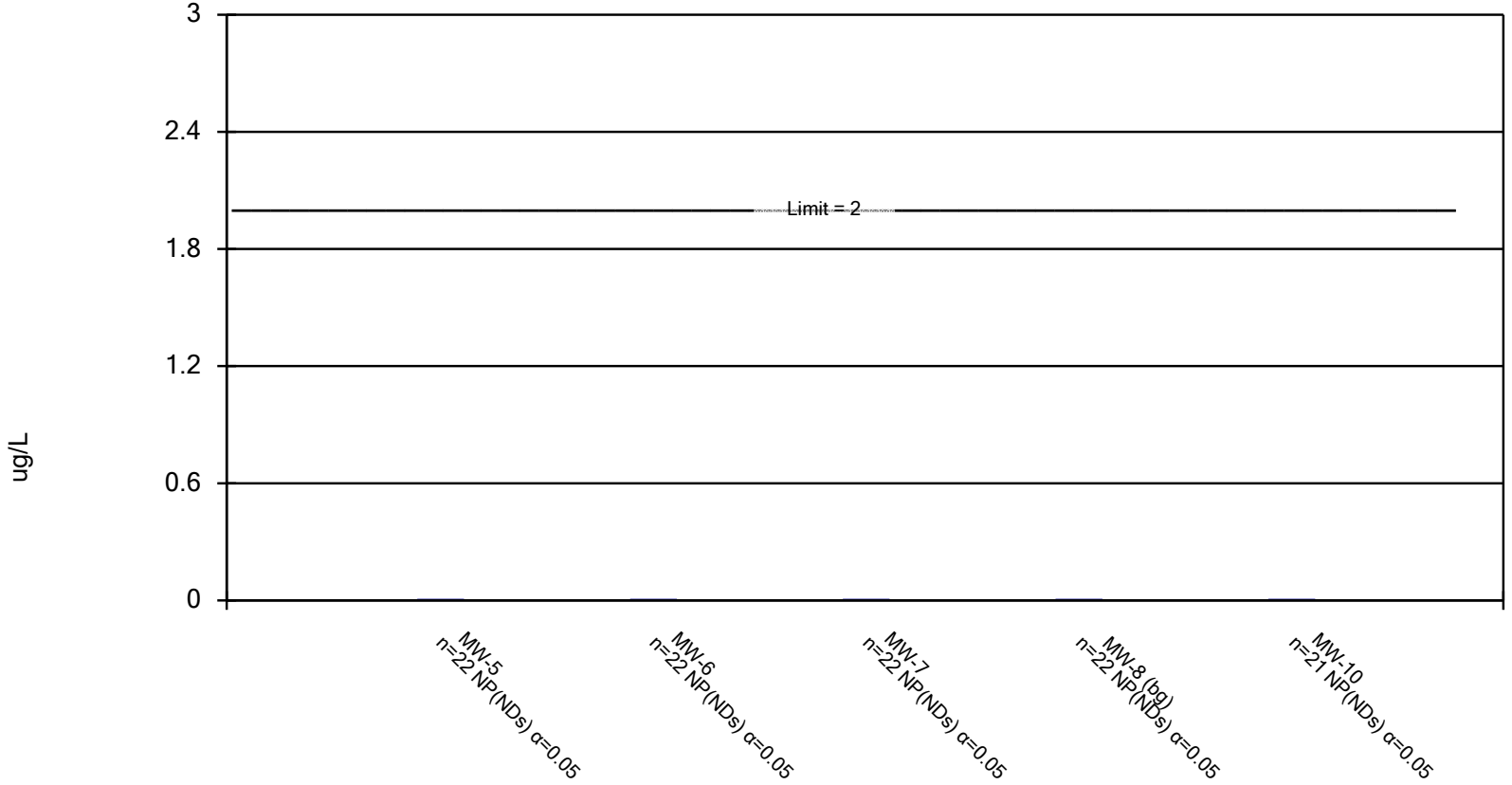
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 7/22/2025 9:58 PM View: 1H2025_CCR BREC

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

January 8, 2026

Mr. Mark Bertram
Director Environmental Services
Big Rivers Electric Corporation
710 West 2nd Street
Owensboro, KY 42301

Re: Statistical Evaluation of September 2025 Assessment Monitoring Groundwater Data
D.B. Wilson Station Phase II CCR Landfill in Centertown, KY
Agency Interest ID#: 3319

Dear Mr. Bertram:

This letter presents the results of the statistical evaluation of analytical data from the September 2025 assessment monitoring event performed at the D.B. Wilson Station Phase II Coal Combustion Residual (CCR) Landfill in Centertown, Kentucky in accordance with the requirements of the U.S. Environmental Protection Agency's CCR Final Rule[1] (Title 40 Code of Federal Regulations [CFR] Part 257, Subpart D). This letter also presents a comparison of the September 2025 sampling results to groundwater protection standards (GWPSs). The GWPSs for the groundwater monitoring network were reviewed and updated as part of the statistical evaluation completed for the September 2025 sampling event and are presented in **Table 1**. These GWPSs will continue to be reviewed and updated as additional data are collected. A comparison of the September 2025 data to the updated GWPSs is presented in **Table 2**. The statistical evaluation presented herein was performed in accordance with the *Update to Certification of Statistical Method for Evaluating Groundwater in accordance with 40 CFR § 257.93 at D.B Wilson Station Phase II CC Landfill in Centertown, Kentucky*[2].

In September 2025, the Phase II CCR Landfill Groundwater Monitoring Well Network was sampled for Appendix III and Appendix IV parameters per the requirements of 40 CFR §257.95(d)(1). Interwell prediction limit statistical analyses were performed for these well/constituent pairs and are discussed subsequently. GWPSs were also developed in accordance with 40 CFR §257.95(h), which describes a GWPS as one of the following:

1. The higher value between a statistically calculated background concentration for an analyte;
2. The established maximum concentration limit (MCL); or
3. The GWPS criteria for select Appendix IV parameters without an MCL presented in 40 CFR §257.95(h)(2).

This letter presents the results of the statistical evaluation of the September 2025 assessment monitoring event for inclusion in the Phase II CCR Landfill Operating Record.

Statistical Evaluation of Compliance Monitoring Well Network

A review of the interwell prediction limit evaluation was performed to compare the September 2025 concentrations of Appendix III and Appendix IV parameters observed at CCR downgradient compliance Monitoring Wells MW-5, MW-6, MW-7, and MW-10 to calculated prediction limits (i.e., background limits) that were established using data collected from April of

[1] U.S. Environmental Protection Agency, 2015, *Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals From Electric Utilities*; 40 CFR Parts 257 and 261, April 17th, revised 2025.
[2] Burns & McDonnell, 2022, *Update to Certification of Statistical Method of Evaluating Groundwater in accordance with 40 CFR 257.95(d)(1) at D.B Wilson Station Phase II CCR Landfill in Centertown, Kentucky*, May 25th.

2016 through September of 2025 from upgradient Monitoring Well MW-8. Note, any data qualified as rejected or considered an outlier (statistically or flagged using professional judgment) during the data review were excluded from the statistical analysis. Certain parameters were detected in September 2025 at concentrations above the calculated background limits (equivalent to the MW-8 prediction limits), and a summary is included in **Attachment 1**. This included the following well/constituent pairs for downgradient compliance monitoring wells with statistically significant increases (SSIs) above calculated background limits:

Appendix III Parameters:

- Boron (MW-5, MW-6, MW-7, and MW-10)
- Calcium (MW-5, MW-6, MW-7, and MW-10)
- Chloride (MW-5, MW-6, MW-7, and MW-10)
- Total dissolved solids (TDS) (MW-5, MW-6, MW-7, and MW-10)

Appendix IV Parameters:

- Cobalt (MW-10)
- Lithium (MW-5, MW-6, and MW-7)

Exceedances of background concentrations were consistent with the April 2025 statistical results, and the above-mentioned Appendix III and Appendix IV SSIs continued to occur at the downgradient compliance monitoring wells in the September 2025 statistical analysis.

The Appendix IV constituents with SSIs (cobalt and lithium) were further evaluated to determine whether they are present at statistically significant levels (SSLs) over the GWPSs by calculating the lower confidence limit (LCL) at 95% confidence for each well and constituent using the Baseline, Detection, and Assessment monitoring results collected to date from each monitoring well. For a constituent to be present at an SSL over the GWPS, its LCL must be greater than the GWPS. The comparison of the calculated LCLs with the GWPSs for cobalt and lithium at downgradient compliance Monitoring Wells MW-5, MW-6, MW-7, and MW-10 resulted in the following well/constituent pair(s) with a SSL above the GWPS:

- Cobalt (MW-10)

The LCLs for the remaining well/constituent pairs for cobalt and lithium were either equal to or less than the GWPS; thus, they are not considered SSLs. A summary of the calculated LCLs in comparison with the GWPSs is provided in **Attachment 1**. The cobalt SSL above the GWPS was consistent with the April 2025 SSI at Monitoring Well MW-10, as this SSL was present in groundwater the past five events.

Given that certain Appendix III and IV constituents were observed within the Phase II CCR Landfill groundwater monitoring network at concentrations above their respective calculated background limit and/or the LCL for a certain Appendix IV constituent was greater than the corresponding GWPS, these results do not warrant a transition to detection monitoring per the requirements of 40 CFR §257.95(f) and assessment monitoring will continue for the next first half semiannual monitoring event in 2026.

Sincerely,

Burns & McDonnell Engineering Company, Inc.

Chris Hoglund, PG
Project Manager

Attachments
Tables
Attachment 1 – Sanitas® Statistical Outputs

cc: Diana Merritt, BREC Wilson
Joe Foster, BREC Wilson

Tables

Table 1
Calculated Background and Groundwater Protection Standards for Groundwater
D.B. Wilson Station Phase II CCR Landfill in Centertown, Kentucky

Detection Monitoring Constituents (Appendix III)	Units	2nd Half 2025 Calculated Background[1]	MCL	40 CFR §257.95(h)(2) Criteria	Groundwater Protection Standard (GWPS)
Boron	mg/L	0.0518	--	--	--
Calcium	mg/L	349	--	--	--
pH	SU	4.67 - 6.84	--	--	--
Total Dissolved Solids	mg/L	1750	--	--	--
Chloride	mg/L	5.524	--	--	--
Fluoride	mg/L	1.21	4	--	4
Sulfate	mg/L	2180	--	--	--
Assessment Monitoring Constituents (Appendix IV)	**Units**	**2nd Half 2025 Calculated Background[1]**	**MCL**	**40 CFR §257.95(h)(2) Criteria**	**GWPS**
Antimony	mg/L	0.0025	0.006	--	0.006
Arsenic	mg/L	0.0144	0.01	--	0.0144
Barium	mg/L	0.070	2	--	2
Beryllium	mg/L	0.002	0.004	--	0.004
Cadmium	mg/L	0.0005	0.005	--	0.005
Chromium	mg/L	0.0224	0.1	--	0.1
Cobalt	mg/L	0.009	--	0.006	0.009
Fluoride	mg/L	1.21	4	--	4
Lead[2]	mg/L	0.012	0.01[2]	0.015	0.012
Lithium	mg/L	0.020	--	0.04	0.04
Mercury	mg/L	0.000005	0.002	--	0.002
Molybdenum	mg/L	0.0187	--	0.1	0.1
Combined Radium 226 and 228[3]	pCi/L	2.94	5	--	5
Selenium	mg/L	0.0015	0.05	--	0.05
Thallium	mg/L	0.001	0.002	--	0.002

Notes:

1. Background concentrations were determined utilizing interwell prediction limits (Attachment 1). Upgradient Monitoring Well MW-8 was used to calculate background concentrations. This included background data ranging from April 2016 through September 2025. For pH, background is between those values presented.

2. Lead GWPSs under 40 CFR §257.95 are currently set at 0.015 mg/L, consistent with the existing CCR Rule. However, EPA's *Lead and Copper Rule Improvements* (2024) have established a new enforceable MCL of 0.01 mg/), effective December 2024. Future CCR compliance determinations will be expected to reflect this updated standard and is presented as the MCL for lead in the above table.

3. Combined radium is reported with an uncertainty range. However, this range cannot be incorporated into statistical calculations as it varies per result and is not a standard value. Therefore, to maintain consistency in reporting these results, the reported laboratory concentration was used for the statistical analyses.

CCR - coal combustion residual
CFR - Code of Federal Regulations
EPA - Environmental Protection Agency
MCL - maximum contaminant level
mg/L - milligrams per Liter
pCi/L - picocuries per Liter
SU - standard units

Table 2
Summary of September 2025 Analytical Results
D.B. Wilson Station Phase II CCR Landfill in Centertown, Kentucky

Sample Location:			2nd Half 2025 Calculated Background[1]	GWPS[2]	MW-5	MW-6	MW-7	MW-8	MW-10
Sample Date:					9/24/2025	9/24/2025	9/24/2025	9/24/2025	9/24/2025
Laboratory ID(s):					5092520-11	5092520-13	5092520-15	5092520-17	5092520-19
All analytes excl. Radium/Radium only					Downgradient	Downgradient	Downgradient	Upgradient Well	Downgradient
Note(s):									
Analytical Method	**Analyte**	**Unit**			**CCR Compliance Monitoring Well Network**				
Appendix III - Detection Monitoring									
6010B	Boron	mg/L	0.0518	--	**1.30 D1, M2**	**1.55 D1**	**3.28 D1**	0.10 U	**0.42**
6010B	Calcium	mg/L	349	--	**704 D1, M3**	**525 D1**	**429 D1**	255 D1	**481 D1**
In Situ	pH	SU	4.67 - 6.84	--	6.24	6.27	6.31	6.32	5.91
2540 C-2015	Total Dissolved Solids	mg/L	1750	--	**4670**	**2600**	**2720**	1540	**2950**
300.0 REV 2.1	Chloride	mg/L	5.524	--	**470 D**	**83.7**	**158 D**	3.5	**82.4**
300.0 REV 2.1	Fluoride	mg/L	1.21	4	0.20 U	0.20	0.24	0.26	0.20 U
300.0 REV 2.1	Sulfate	mg/L	2180	--	1930 D	1660 D	1190 D	812 D	2150 D
Appendix IV - Assessment Monitoring									
6020A	Antimony	mg/L	0.0025	0.006	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
6020A	Arsenic	mg/L	0.0144	0.0144	0.0030	0.0056	0.0037	0.0053	0.0043
6020A	Barium	mg/L	0.070	2	0.012	0.012	0.012	0.019	0.010
6020A	Beryllium	mg/L	0.002	0.004	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
6020A	Cadmium	mg/L	0.0005	0.005	0.0010 U	0.0001 J	0.0010 U	0.0010 U	0.0010 U
6020A	Chromium	mg/L	0.0224	0.1	0.0020 L1, U	0.0020 L1, U	0.0006 L1, J	0.0008 L1, J	0.0020 L1, U
6020A	Cobalt	mg/L	0.009	0.009	0.004 L1, U	0.008	0.004 L1, U	0.004 L1, U	**0.089**
300.0 REV 2.1	Fluoride	mg/L	1.21	4	0.20 U	0.20	0.24	0.26	0.20 U
6020A	Lead	mg/L	0.012	0.012	0.002 U	0.00090 J	0.002 U	0.002 U	0.002 U
6020A	Lithium	mg/L	0.020	0.04	**0.05**	0.04	**0.03**	0.01 J	0.007 J
245.7 REV 2	Mercury	mg/L	0.000005	0.002	0.000005 U	0.000005 U	0.000005 U	0.000005 U	0.000005 U
6020A	Molybdenum	mg/L	0.0187	0.1	0.004 L1, J	0.006 L1, J	0.004 L1, J	0.01	0.01 L1, U
903.1/904.0	Combined Radium 226 and 228[3]	pCi/L	2.94	5	1.35	1.32	1.80	2.38	1.33
6020A	Selenium	mg/L	0.0015	0.05	0.001 J	0.003 U	0.003 U	0.003 U	0.003 U
6020A	Thallium	mg/L	0.001	0.002	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U

Notes

1 - Background concentrations were determined utilizing interwell prediction limits. Upgradient Monitoring Well MW-8 was used to determine these background concentrations. This included data ranging from April 2016 through September 2025. For pH, background is between those values presented.

2 - GWPSs were developed in accordance with Title 40 Code of Federal Regulations §257.95(h).

3 - Combined radium is reported with an associated uncertainty range. However, this range cannot be incorporated into statistical calculations as it varies per result and is not a standard value. Therefore, to maintain consistency in reporting these results, the reported laboratory concentration was used for the statistical analyses.

Bold - Analyte detected above calculated background concentration.

Analyte was detected in downgradient compliance monitoring well at a statistically significant level above its GWPS (see Confidence Interval statistical output in Attachment 1).

CCR - coal combustion residual

D - Results reported from dilution.

D1 - Sample required dilution due to high concentration of target analyte.

GWPS - groundwater protection standard

J - estimated concentration

L1 = The associated blank spike recovery was above method acceptance limits.

M2 - Matrix spike recovery was low; the method control sample recovery was acceptable.

M3 - The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

mg/L - milligram per Liter

pCi/L - picocurie per Liter

SU - standard unit

U - non-detect

Attachment 1 – Sanitas® Statistical Outputs

Prediction Limit

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile Printed 11/13/2025, 8:57 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	MW-5	0.0025	n/a	9/24/2025	0.0025ND	No	25	68	n/a	0.03643	NP Inter (NDs)
Antimony (mg/L)	MW-6	0.0025	n/a	9/24/2025	0.0025ND	No	25	68	n/a	0.03643	NP Inter (NDs)
Antimony (mg/L)	MW-7	0.0025	n/a	9/24/2025	0.0025ND	No	25	68	n/a	0.03643	NP Inter (NDs)
Antimony (mg/L)	MW-10	0.0025	n/a	9/24/2025	0.0025ND	No	25	68	n/a	0.03643	NP Inter (NDs)
Arsenic (ug/L)	MW-5	14.4	n/a	9/24/2025	3	No	25	0	n/a	0.03643	NP Inter (normality)
Arsenic (ug/L)	MW-6	14.4	n/a	9/24/2025	5.6	No	25	0	n/a	0.03643	NP Inter (normality)
Arsenic (ug/L)	MW-7	14.4	n/a	9/24/2025	3.7	No	25	0	n/a	0.03643	NP Inter (normality)
Arsenic (ug/L)	MW-10	14.4	n/a	9/24/2025	4.3	No	25	0	n/a	0.03643	NP Inter (normality)
Barium (ug/L)	MW-5	70	n/a	9/24/2025	12	No	24	0	n/a	0.0378	NP Inter (normality)
Barium (ug/L)	MW-6	70	n/a	9/24/2025	12	No	24	0	n/a	0.0378	NP Inter (normality)
Barium (ug/L)	MW-7	70	n/a	9/24/2025	12	No	24	0	n/a	0.0378	NP Inter (normality)
Barium (ug/L)	MW-10	70	n/a	9/24/2025	10	No	24	0	n/a	0.0378	NP Inter (normality)
Beryllium (ug/L)	MW-5	2	n/a	9/24/2025	1ND	No	24	100	n/a	0.0378	NP Inter (NDs)
Beryllium (ug/L)	MW-6	2	n/a	9/24/2025	1ND	No	24	100	n/a	0.0378	NP Inter (NDs)
Beryllium (ug/L)	MW-7	2	n/a	9/24/2025	1ND	No	24	100	n/a	0.0378	NP Inter (NDs)
Beryllium (ug/L)	MW-10	2	n/a	9/24/2025	1ND	No	24	100	n/a	0.0378	NP Inter (NDs)
Boron (ug/L)	**MW-5**	**51.8**	**n/a**	**9/24/2025**	**1300**	**Yes**	**26**	**57.69**	**n/a**	**0.03514**	**NP Inter (NDs)**
Boron (ug/L)	**MW-6**	**51.8**	**n/a**	**9/24/2025**	**1550**	**Yes**	**26**	**57.69**	**n/a**	**0.03514**	**NP Inter (NDs)**
Boron (ug/L)	**MW-7**	**51.8**	**n/a**	**9/24/2025**	**3280**	**Yes**	**26**	**57.69**	**n/a**	**0.03514**	**NP Inter (NDs)**
Boron (ug/L)	**MW-10**	**51.8**	**n/a**	**9/24/2025**	**420**	**Yes**	**26**	**57.69**	**n/a**	**0.03514**	**NP Inter (NDs)**
Cadmium (ug/L)	MW-5	0.5	n/a	9/24/2025	0.5ND	No	24	91.67	n/a	0.0378	NP Inter (NDs)
Cadmium (ug/L)	MW-6	0.5	n/a	9/24/2025	0.1J	No	24	91.67	n/a	0.0378	NP Inter (NDs)
Cadmium (ug/L)	MW-7	0.5	n/a	9/24/2025	0.5ND	No	24	91.67	n/a	0.0378	NP Inter (NDs)
Cadmium (ug/L)	MW-10	0.5	n/a	9/24/2025	0.5ND	No	24	91.67	n/a	0.0378	NP Inter (NDs)
Calcium (ug/L)	**MW-5**	**349000**	**n/a**	**9/24/2025**	**704000**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Calcium (ug/L)	**MW-6**	**349000**	**n/a**	**9/24/2025**	**525000**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Calcium (ug/L)	**MW-7**	**349000**	**n/a**	**9/24/2025**	**429000**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Calcium (ug/L)	**MW-10**	**349000**	**n/a**	**9/24/2025**	**481000**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Chloride (mg/L)	**MW-5**	**5.524**	**n/a**	**9/24/2025**	**470**	**Yes**	**26**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-6**	**5.524**	**n/a**	**9/24/2025**	**83.7**	**Yes**	**26**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-7**	**5.524**	**n/a**	**9/24/2025**	**158**	**Yes**	**26**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-10**	**5.524**	**n/a**	**9/24/2025**	**82.4**	**Yes**	**26**	**0**	**No**	**0.01**	**Param Inter**
Chromium (ug/L)	MW-5	22.4	n/a	9/24/2025	0.3ND	No	25	28	n/a	0.03643	NP Inter (normality)
Chromium (ug/L)	MW-6	22.4	n/a	9/24/2025	0.3ND	No	25	28	n/a	0.03643	NP Inter (normality)
Chromium (ug/L)	MW-7	22.4	n/a	9/24/2025	0.6J	No	25	28	n/a	0.03643	NP Inter (normality)
Chromium (ug/L)	MW-10	22.4	n/a	9/24/2025	0.3ND	No	25	28	n/a	0.03643	NP Inter (normality)
Cobalt (ug/L)	MW-5	9	n/a	9/24/2025	2ND	No	24	54.17	n/a	0.0378	NP Inter (NDs)
Cobalt (ug/L)	MW-6	9	n/a	9/24/2025	8	No	24	54.17	n/a	0.0378	NP Inter (NDs)
Cobalt (ug/L)	MW-7	9	n/a	9/24/2025	2ND	No	24	54.17	n/a	0.0378	NP Inter (NDs)
Cobalt (ug/L)	**MW-10**	**9**	**n/a**	**9/24/2025**	**89**	**Yes**	**24**	**54.17**	**n/a**	**0.0378**	**NP Inter (NDs)**
Fluoride (mg/L)	MW-5	1.21	n/a	9/24/2025	1ND	No	26	7.692	n/a	0.03514	NP Inter (normality)
Fluoride (mg/L)	MW-6	1.21	n/a	9/24/2025	0.2	No	26	7.692	n/a	0.03514	NP Inter (normality)
Fluoride (mg/L)	MW-7	1.21	n/a	9/24/2025	0.24	No	26	7.692	n/a	0.03514	NP Inter (normality)
Fluoride (mg/L)	MW-10	1.21	n/a	9/24/2025	1ND	No	26	7.692	n/a	0.03514	NP Inter (normality)
Lead (ug/L)	MW-5	12	n/a	9/24/2025	1ND	No	25	64	n/a	0.03643	NP Inter (NDs)
Lead (ug/L)	MW-6	12	n/a	9/24/2025	0.9J	No	25	64	n/a	0.03643	NP Inter (NDs)
Lead (ug/L)	MW-7	12	n/a	9/24/2025	1ND	No	25	64	n/a	0.03643	NP Inter (NDs)
Lead (ug/L)	MW-10	12	n/a	9/24/2025	1ND	No	25	64	n/a	0.03643	NP Inter (NDs)
Lithium (ug/L)	**MW-5**	**20**	**n/a**	**9/24/2025**	**50**	**Yes**	**25**	**16**	**n/a**	**0.03643**	**NP Inter (normality)**
Lithium (ug/L)	**MW-6**	**20**	**n/a**	**9/24/2025**	**40**	**Yes**	**25**	**16**	**n/a**	**0.03643**	**NP Inter (normality)**

Prediction Limit

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile Printed 11/13/2025, 8:57 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Lithium (ug/L)	**MW-7**	**20**	**n/a**	**9/24/2025**	**30**	**Yes**	**25**	**16**	**n/a**	**0.03643**	**NP Inter (normality)**
Lithium (ug/L)	MW-10	20	n/a	9/24/2025	7J	No	25	16	n/a	0.03643	NP Inter (normality)
Mercury (ug/L)	MW-5	0.005	n/a	9/24/2025	0.0025ND	No	23	100	n/a	0.03929	NP Inter (NDs)
Mercury (ug/L)	MW-6	0.005	n/a	9/24/2025	0.0025ND	No	23	100	n/a	0.03929	NP Inter (NDs)
Mercury (ug/L)	MW-7	0.005	n/a	9/24/2025	0.0025ND	No	23	100	n/a	0.03929	NP Inter (NDs)
Mercury (ug/L)	MW-10	0.005	n/a	9/24/2025	0.0025ND	No	23	100	n/a	0.03929	NP Inter (NDs)
Molybdenum (ug/L)	MW-5	18.7	n/a	9/24/2025	4J	No	25	0	n/a	0.03643	NP Inter (normality)
Molybdenum (ug/L)	MW-6	18.7	n/a	9/24/2025	6J	No	25	0	n/a	0.03643	NP Inter (normality)
Molybdenum (ug/L)	MW-7	18.7	n/a	9/24/2025	4J	No	25	0	n/a	0.03643	NP Inter (normality)
Molybdenum (ug/L)	MW-10	18.7	n/a	9/24/2025	5ND	No	25	0	n/a	0.03643	NP Inter (normality)
pH (SU)	MW-5	6.84	4.67	9/24/2025	6.24	No	25	0	n/a	0.07285	NP Inter (normality)
pH (SU)	MW-6	6.84	4.67	9/24/2025	6.27	No	25	0	n/a	0.07285	NP Inter (normality)
pH (SU)	MW-7	6.84	4.67	9/24/2025	6.31	No	25	0	n/a	0.07285	NP Inter (normality)
pH (SU)	MW-10	6.84	4.67	9/24/2025	5.91	No	25	0	n/a	0.07285	NP Inter (normality)
Radium 226 + 228 (pCi/L)	MW-5	2.94	n/a	9/24/2025	1.35	No	23	0	n/a	0.03929	NP Inter (normality)
Radium 226 + 228 (pCi/L)	MW-6	2.94	n/a	9/24/2025	1.32	No	23	0	n/a	0.03929	NP Inter (normality)
Radium 226 + 228 (pCi/L)	MW-7	2.94	n/a	9/24/2025	1.8	No	23	0	n/a	0.03929	NP Inter (normality)
Radium 226 + 228 (pCi/L)	MW-10	2.94	n/a	9/24/2025	1.33	No	23	0	n/a	0.03929	NP Inter (normality)
Selenium (ug/L)	MW-5	1.5	n/a	9/24/2025	1J	No	24	91.67	n/a	0.0378	NP Inter (NDs)
Selenium (ug/L)	MW-6	1.5	n/a	9/24/2025	1.5ND	No	24	91.67	n/a	0.0378	NP Inter (NDs)
Selenium (ug/L)	MW-7	1.5	n/a	9/24/2025	1.5ND	No	24	91.67	n/a	0.0378	NP Inter (NDs)
Selenium (ug/L)	MW-10	1.5	n/a	9/24/2025	1.5ND	No	24	91.67	n/a	0.0378	NP Inter (NDs)
Sulfate (mg/L)	MW-5	2180	n/a	9/24/2025	1930	No	26	0	n/a	0.03514	NP Inter (normality)
Sulfate (mg/L)	MW-6	2180	n/a	9/24/2025	1660	No	26	0	n/a	0.03514	NP Inter (normality)
Sulfate (mg/L)	MW-7	2180	n/a	9/24/2025	1190	No	26	0	n/a	0.03514	NP Inter (normality)
Sulfate (mg/L)	MW-10	2180	n/a	9/24/2025	2150	No	26	0	n/a	0.03514	NP Inter (normality)
Thallium (ug/L)	MW-5	1	n/a	9/24/2025	1ND	No	25	88	n/a	0.03643	NP Inter (NDs)
Thallium (ug/L)	MW-6	1	n/a	9/24/2025	1ND	No	25	88	n/a	0.03643	NP Inter (NDs)
Thallium (ug/L)	MW-7	1	n/a	9/24/2025	1ND	No	25	88	n/a	0.03643	NP Inter (NDs)
Thallium (ug/L)	MW-10	1	n/a	9/24/2025	1ND	No	25	88	n/a	0.03643	NP Inter (NDs)
Total Dissolved Solids (mg/L)	**MW-5**	**1750**	**n/a**	**9/24/2025**	**4670**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-6**	**1750**	**n/a**	**9/24/2025**	**2600**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-7**	**1750**	**n/a**	**9/24/2025**	**2720**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-10**	**1750**	**n/a**	**9/24/2025**	**2950**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**

Prediction Limit

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile Printed 11/13/2025, 8:57 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (ug/L)	**MW-5**	**51.8**	**n/a**	**9/24/2025**	**1300**	**Yes**	**26**	**57.69**	**n/a**	**0.03514**	**NP Inter (NDs)**
Boron (ug/L)	**MW-6**	**51.8**	**n/a**	**9/24/2025**	**1550**	**Yes**	**26**	**57.69**	**n/a**	**0.03514**	**NP Inter (NDs)**
Boron (ug/L)	**MW-7**	**51.8**	**n/a**	**9/24/2025**	**3280**	**Yes**	**26**	**57.69**	**n/a**	**0.03514**	**NP Inter (NDs)**
Boron (ug/L)	**MW-10**	**51.8**	**n/a**	**9/24/2025**	**420**	**Yes**	**26**	**57.69**	**n/a**	**0.03514**	**NP Inter (NDs)**
Calcium (ug/L)	**MW-5**	**349000**	**n/a**	**9/24/2025**	**704000**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Calcium (ug/L)	**MW-6**	**349000**	**n/a**	**9/24/2025**	**525000**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Calcium (ug/L)	**MW-7**	**349000**	**n/a**	**9/24/2025**	**429000**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Calcium (ug/L)	**MW-10**	**349000**	**n/a**	**9/24/2025**	**481000**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Chloride (mg/L)	**MW-5**	**5.524**	**n/a**	**9/24/2025**	**470**	**Yes**	**26**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-6**	**5.524**	**n/a**	**9/24/2025**	**83.7**	**Yes**	**26**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-7**	**5.524**	**n/a**	**9/24/2025**	**158**	**Yes**	**26**	**0**	**No**	**0.01**	**Param Inter**
Chloride (mg/L)	**MW-10**	**5.524**	**n/a**	**9/24/2025**	**82.4**	**Yes**	**26**	**0**	**No**	**0.01**	**Param Inter**
Cobalt (ug/L)	**MW-10**	**9**	**n/a**	**9/24/2025**	**89**	**Yes**	**24**	**54.17**	**n/a**	**0.0378**	**NP Inter (NDs)**
Lithium (ug/L)	**MW-5**	**20**	**n/a**	**9/24/2025**	**50**	**Yes**	**25**	**16**	**n/a**	**0.03643**	**NP Inter (normality)**
Lithium (ug/L)	**MW-6**	**20**	**n/a**	**9/24/2025**	**40**	**Yes**	**25**	**16**	**n/a**	**0.03643**	**NP Inter (normality)**
Lithium (ug/L)	**MW-7**	**20**	**n/a**	**9/24/2025**	**30**	**Yes**	**25**	**16**	**n/a**	**0.03643**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-5**	**1750**	**n/a**	**9/24/2025**	**4670**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-6**	**1750**	**n/a**	**9/24/2025**	**2600**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-7**	**1750**	**n/a**	**9/24/2025**	**2720**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**
Total Dissolved Solids (mg/L)	**MW-10**	**1750**	**n/a**	**9/24/2025**	**2950**	**Yes**	**26**	**0**	**n/a**	**0.03514**	**NP Inter (normality)**

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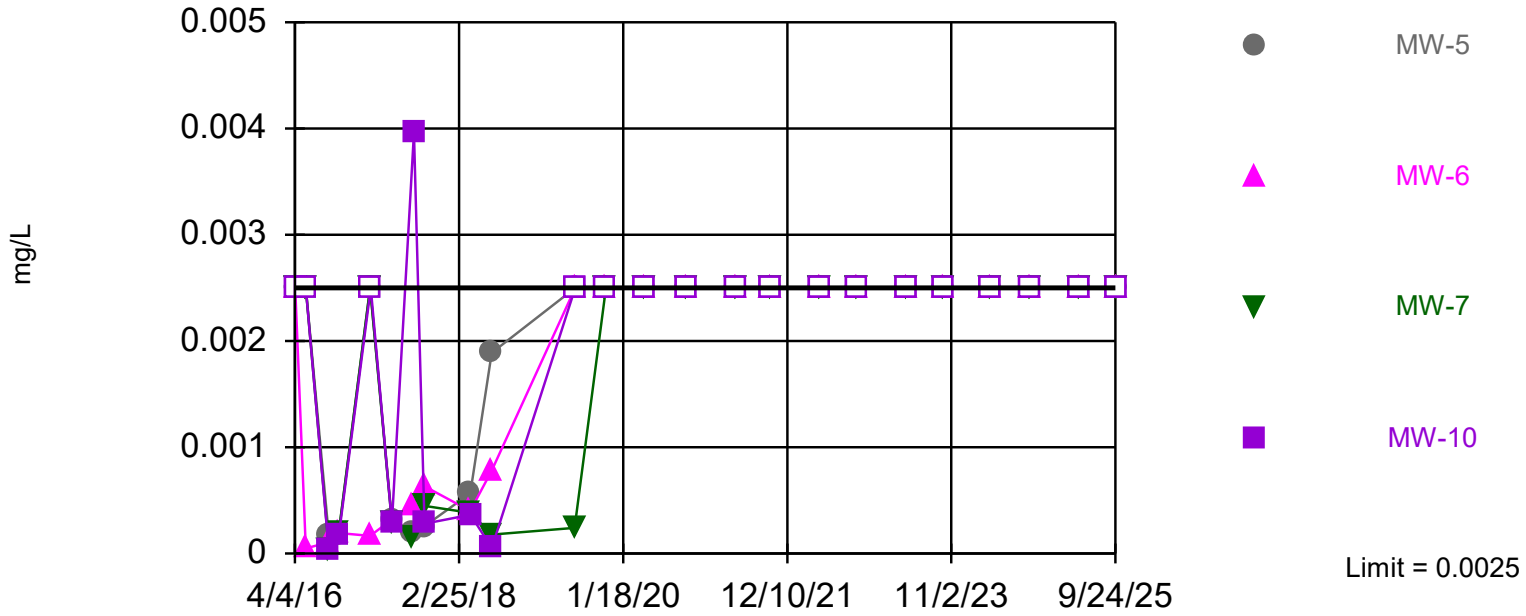
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 68% NDs. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Antimony Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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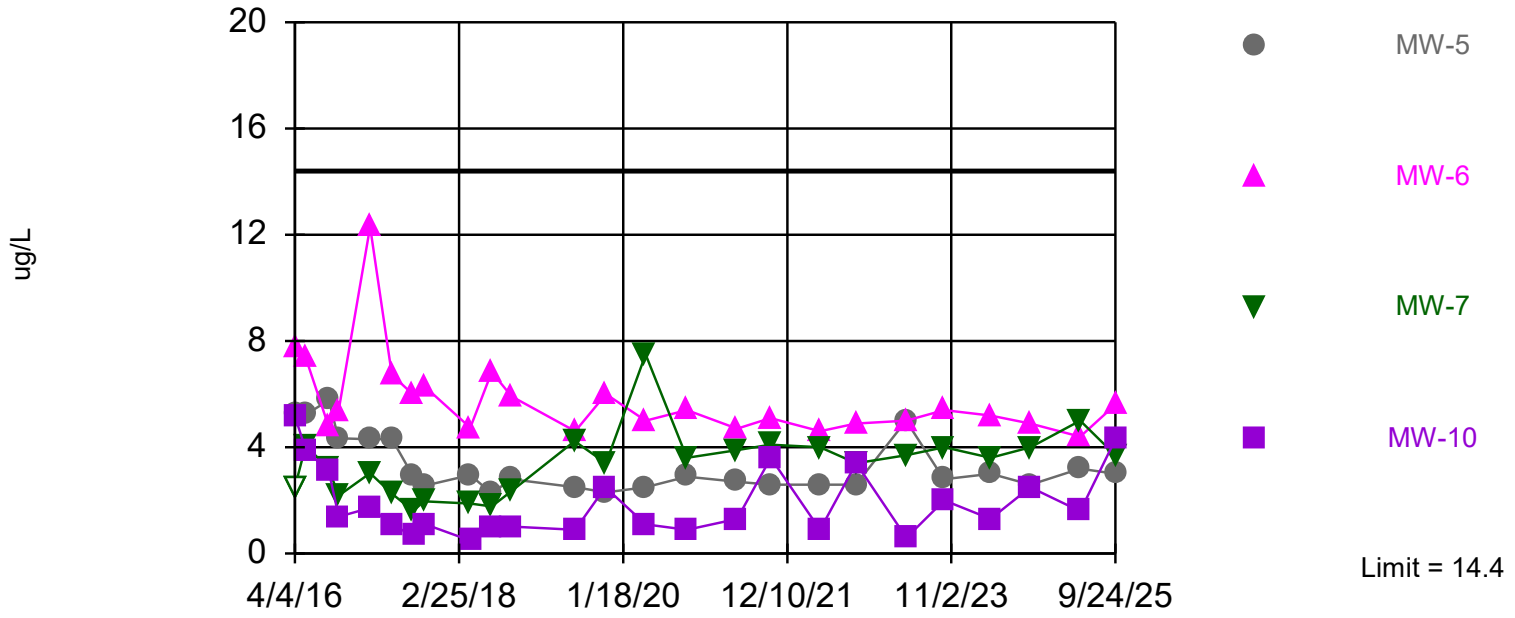
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Arsenic Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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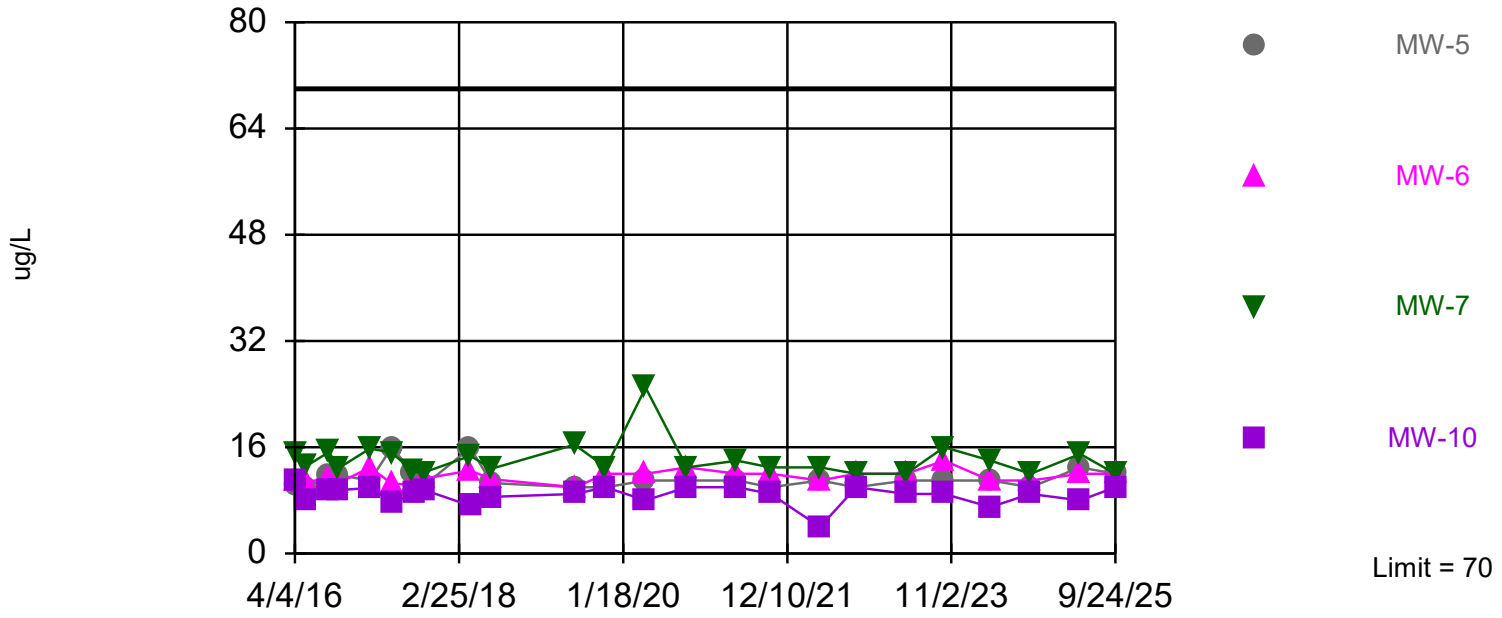
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 24 background values. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Barium Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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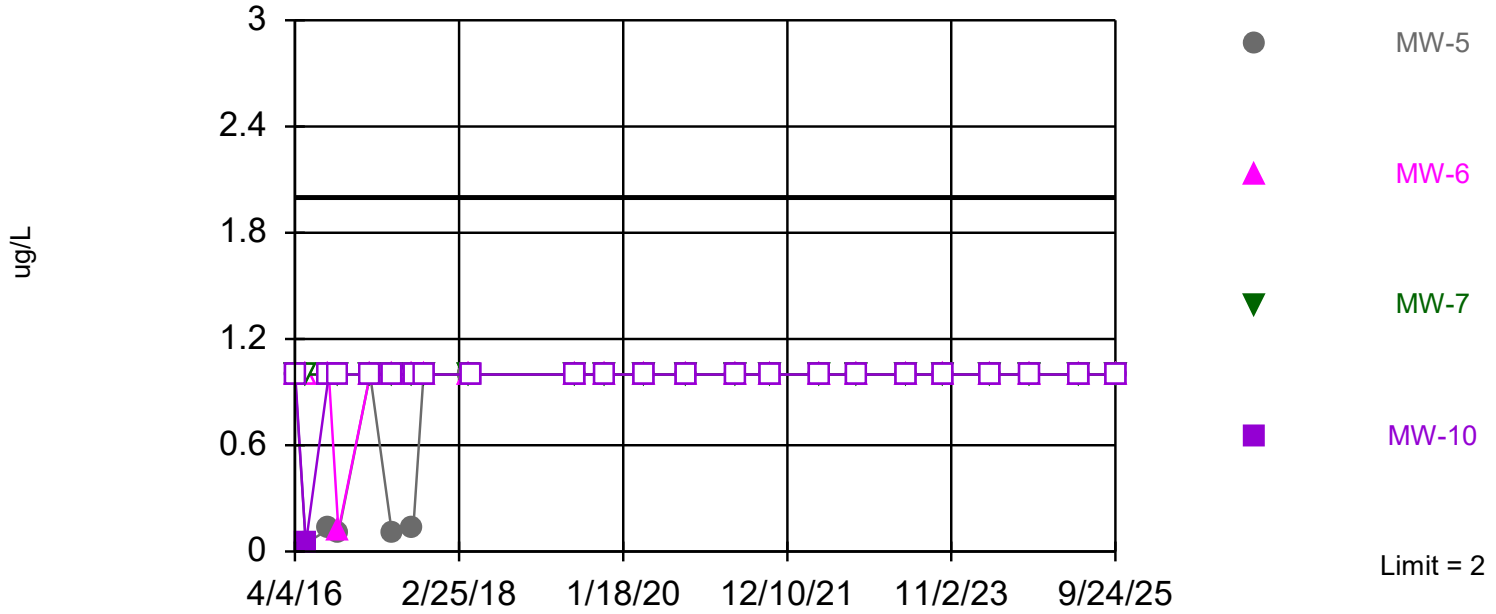
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Beryllium Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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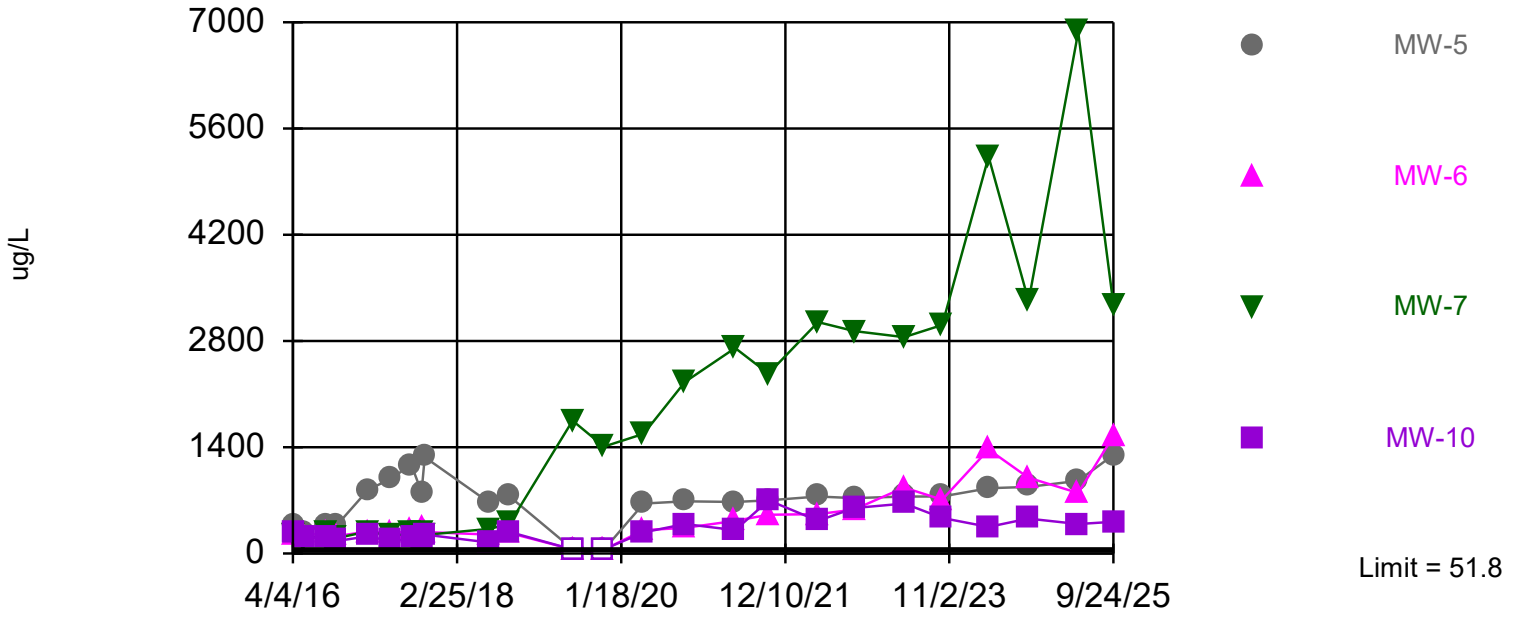
Hollow symbols indicate censored values.

Exceeds Limit: MW-5, MW-6, MW-7, MW-10

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 57.69% NDs. Report alpha = 0.1333. Individual comparison alpha = 0.03514. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Boron Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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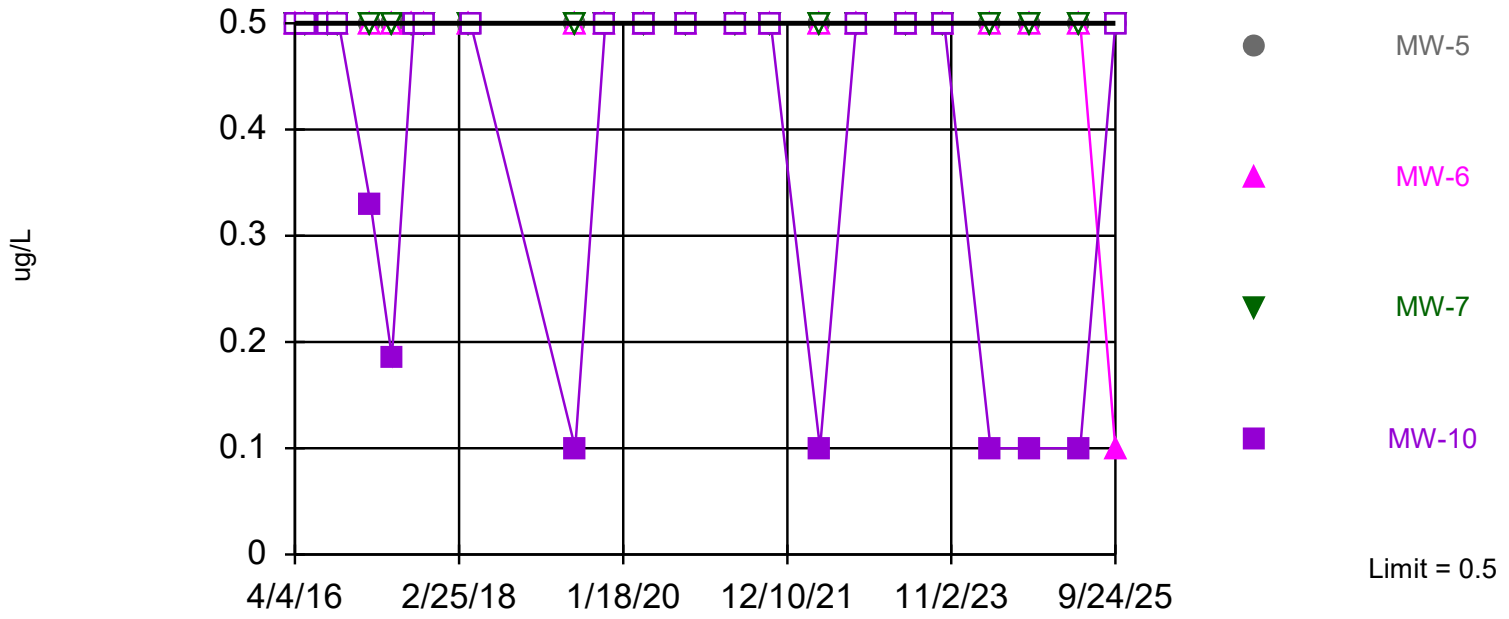
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Cadmium Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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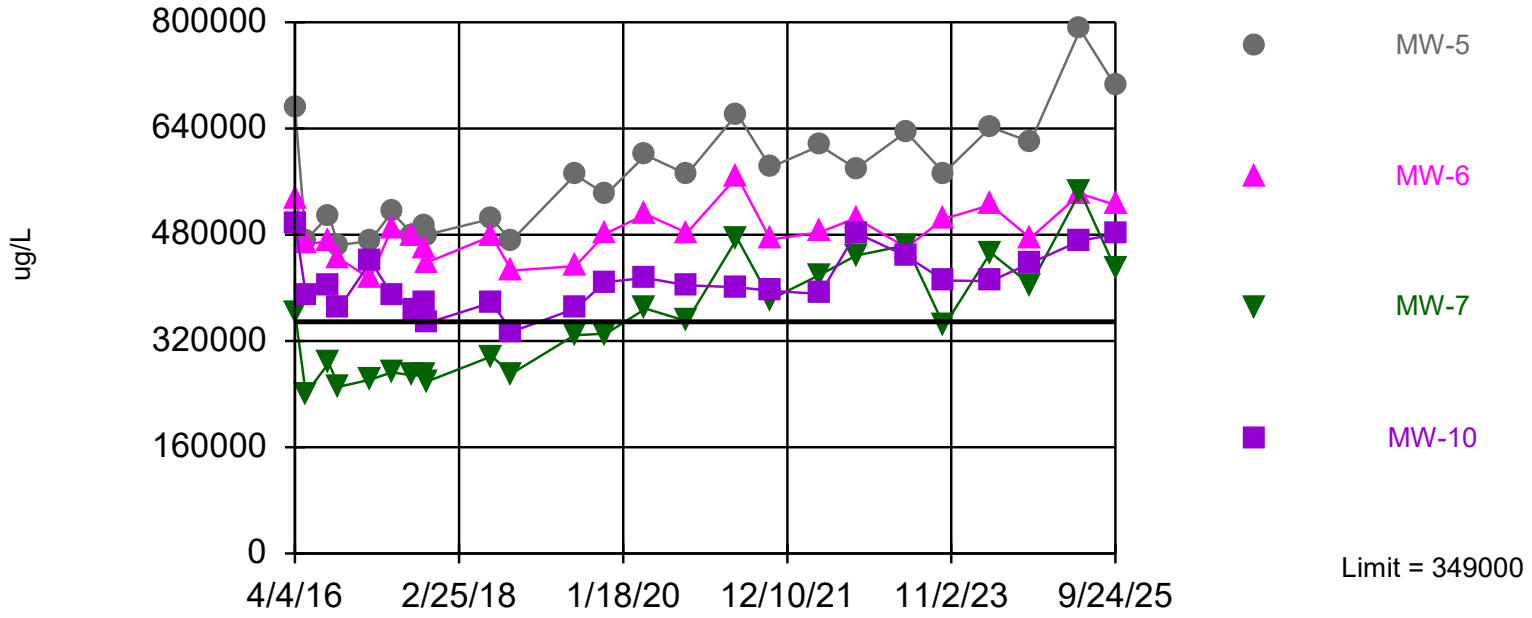
Exceeds Limit: MW-5, MW-6, MW-7, MW-10

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 26 background values. Report alpha = 0.1333. Individual comparison alpha = 0.03514. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Calcium Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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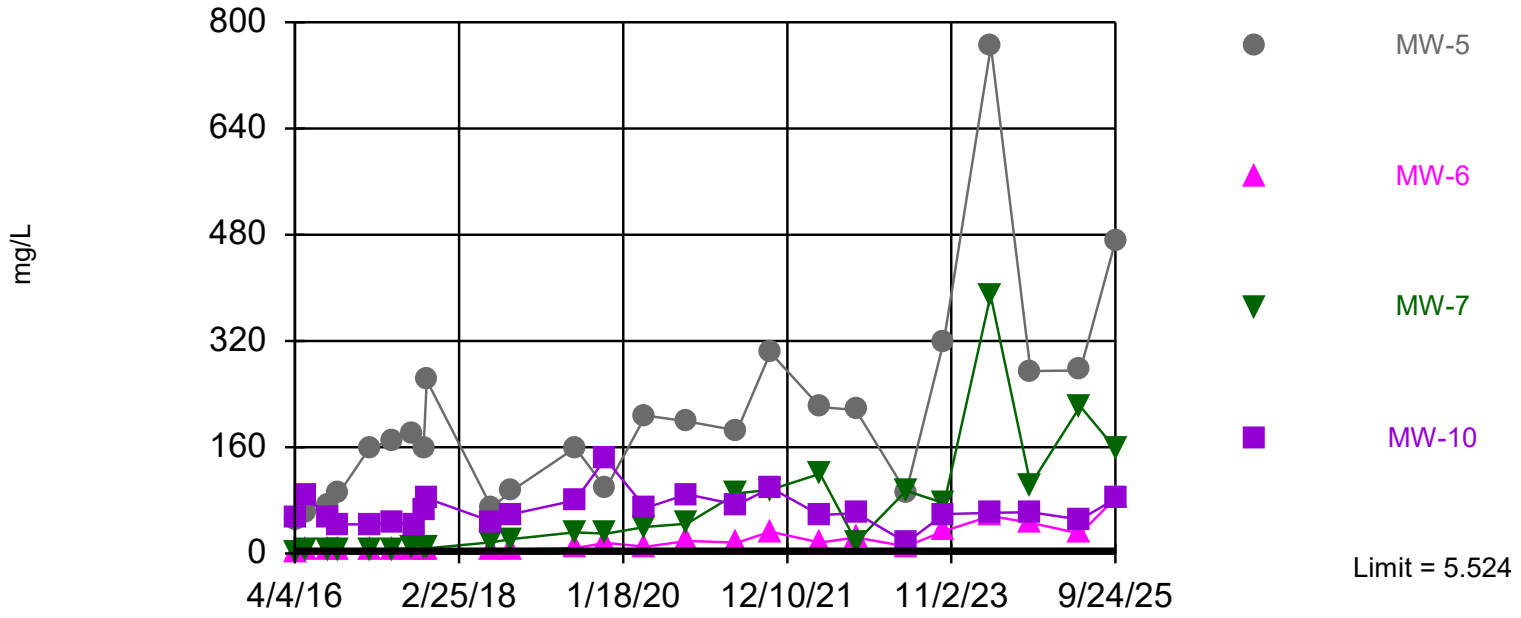
Exceeds Limit: MW-5, MW-6, MW-7, MW-10

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=4.203, Std. Dev.=0.5215, n=26. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9292, critical = 0.92. Report alpha = 0.0394. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit. EPA 1989 outlier screening was performed on the background data. No background outliers were found.

Constituent: Chloride Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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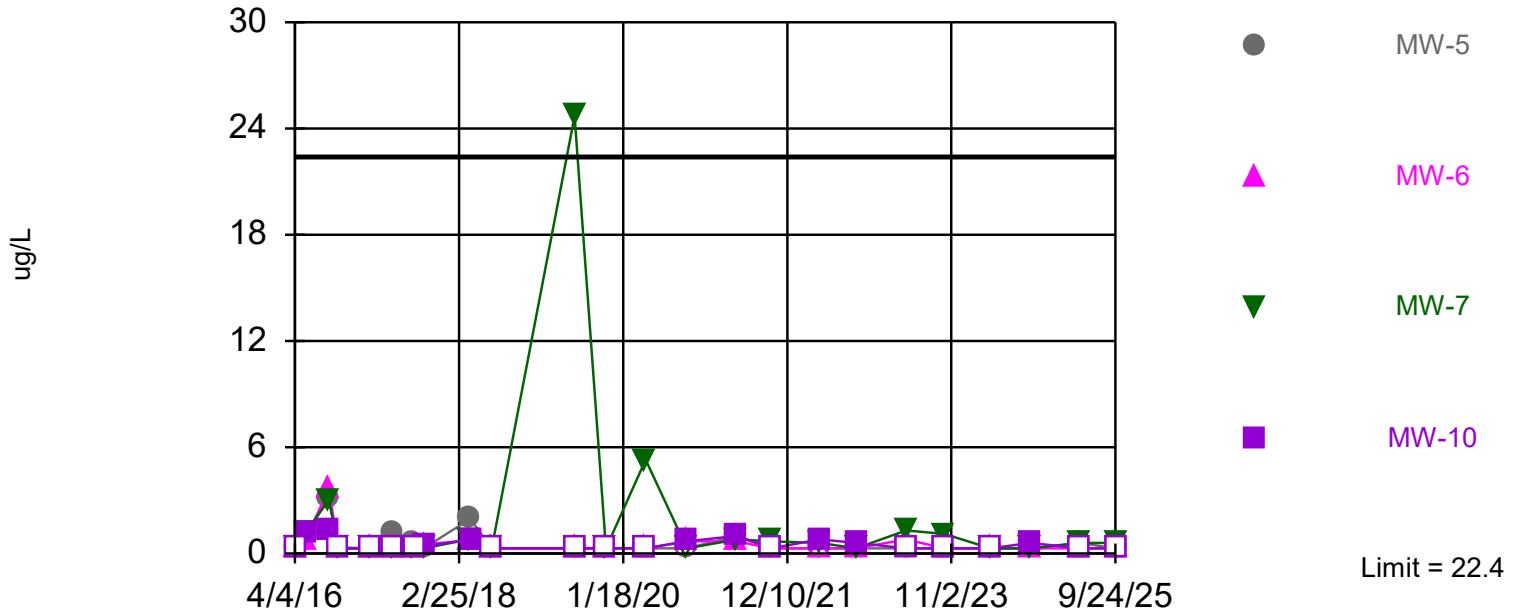
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. 28% NDs. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Chromium Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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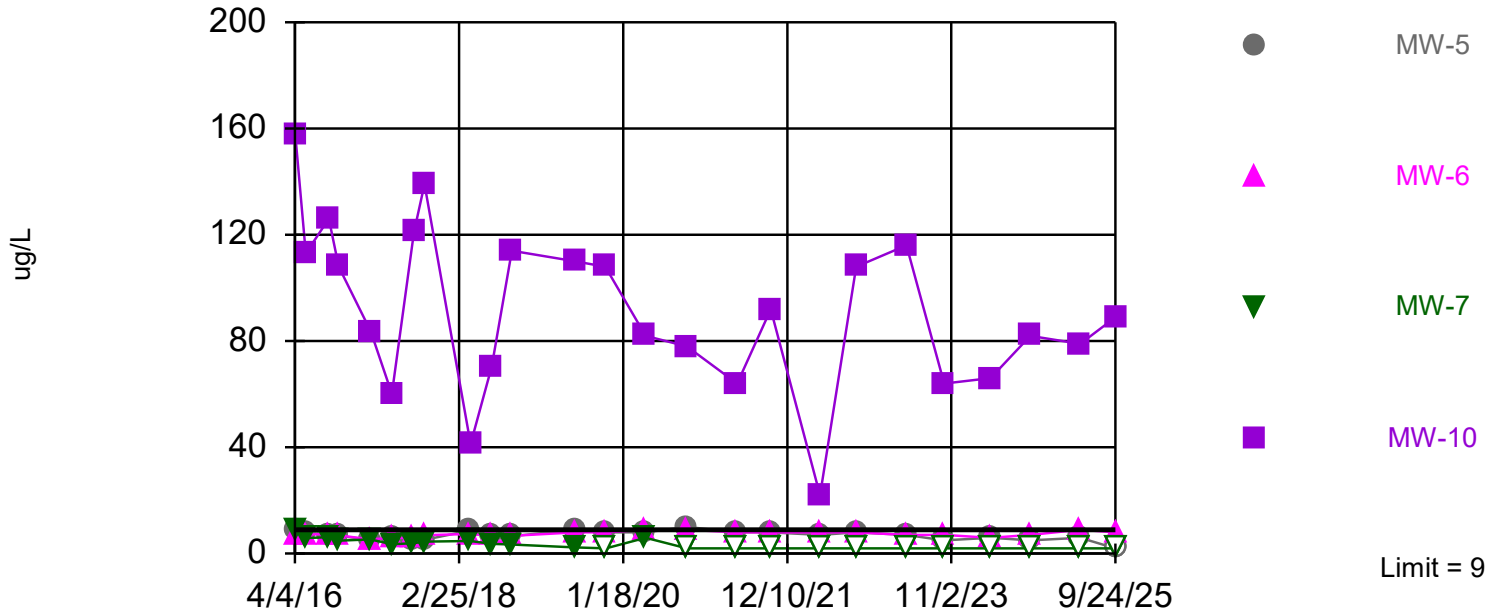
Hollow symbols indicate censored values.

Exceeds Limit: MW-10

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 54.17% NDs. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Cobalt Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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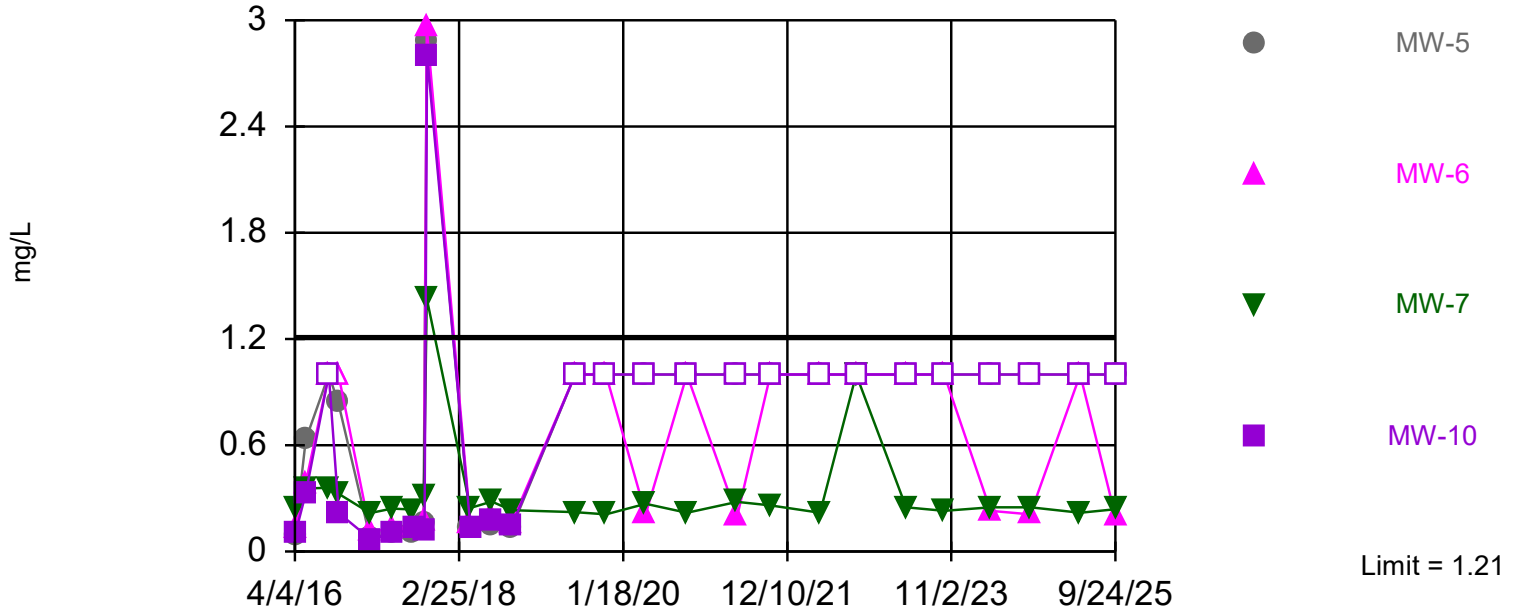
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 26 background values. 7.692% NDs. Report alpha = 0.1333. Individual comparison alpha = 0.03514. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Fluoride Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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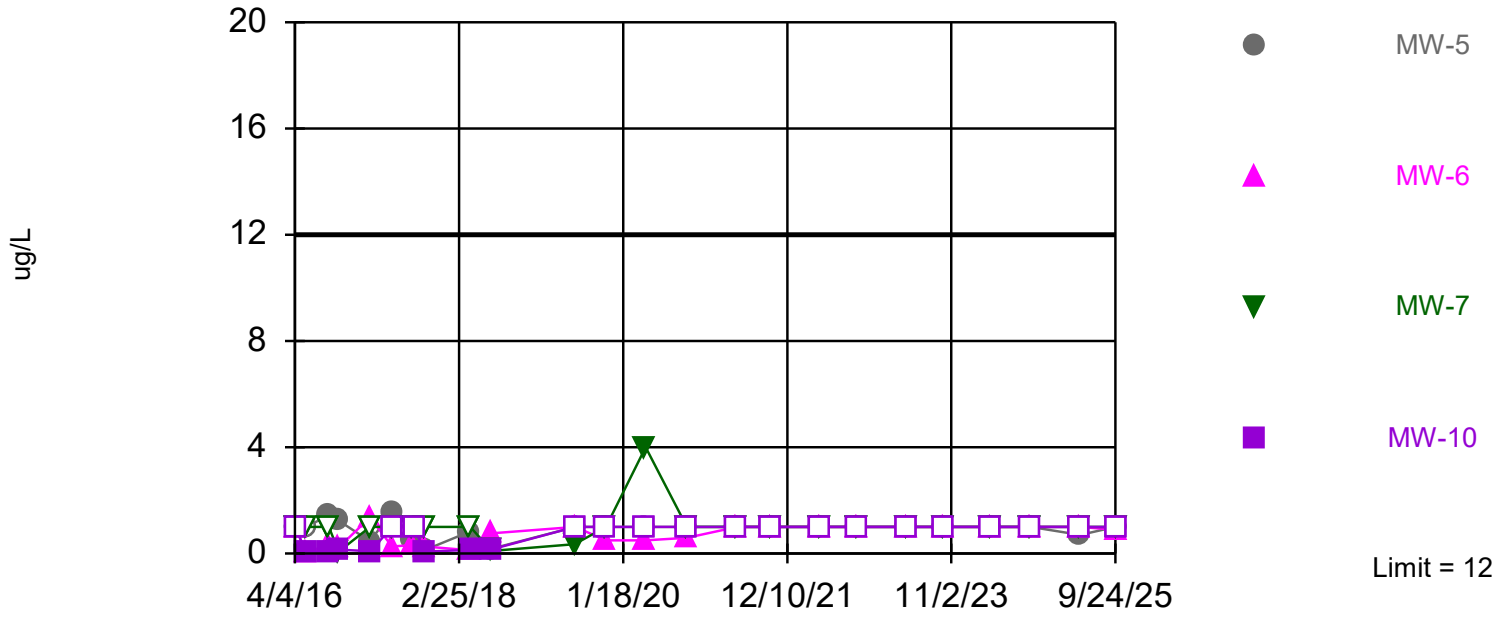
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Lead Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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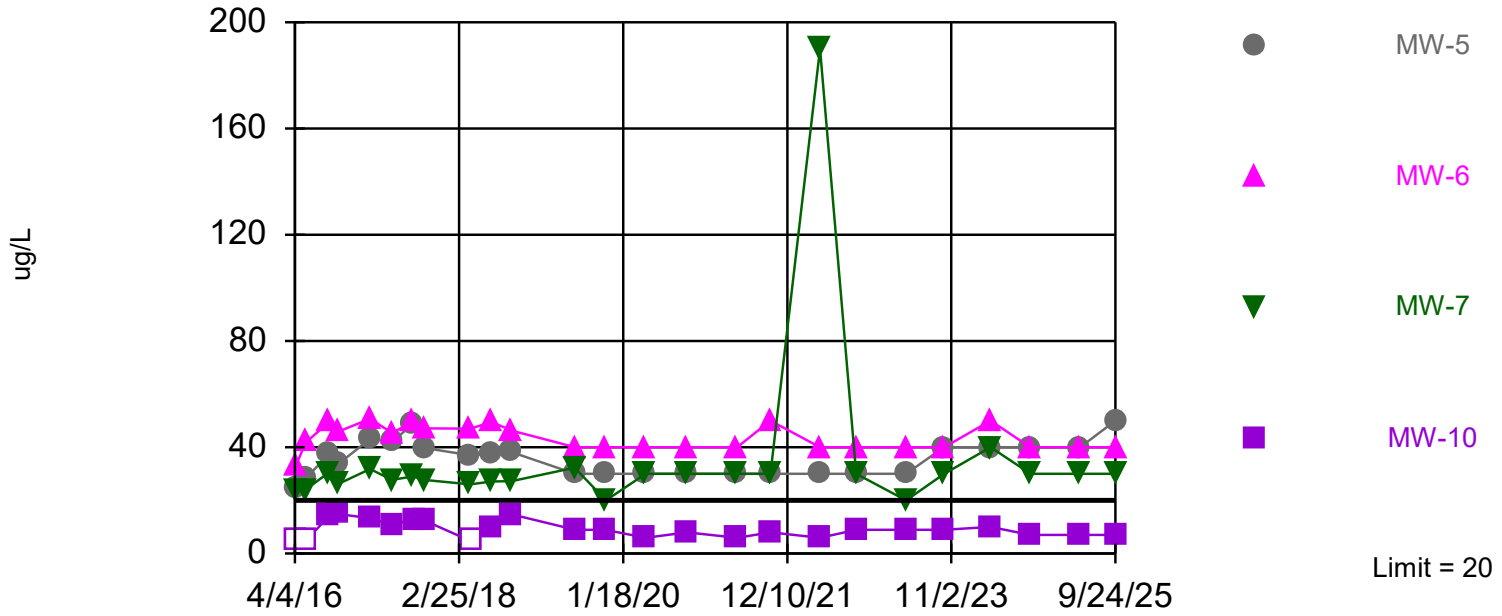
Hollow symbols indicate censored values.

Exceeds Limit: MW-5, MW-6, MW-7

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. 16% NDs. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Lithium Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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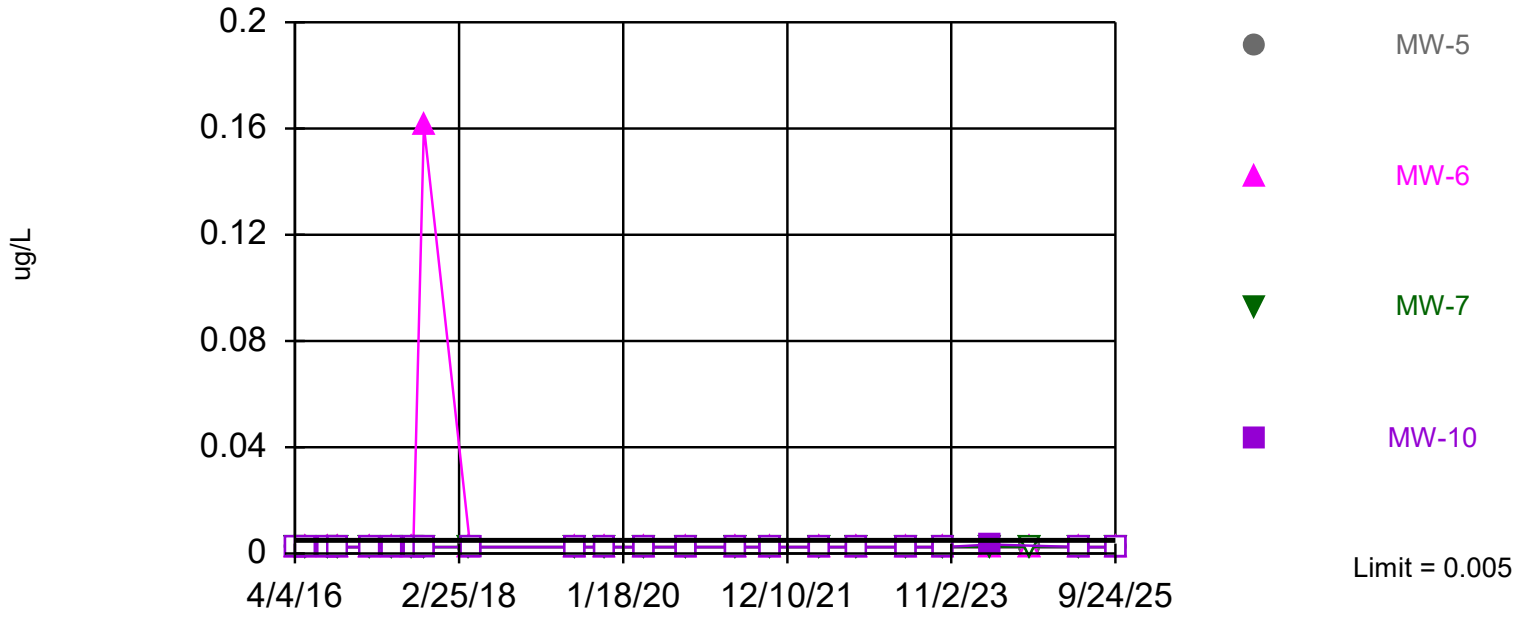
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Report alpha = 0.1481. Individual comparison alpha = 0.03929. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Mercury Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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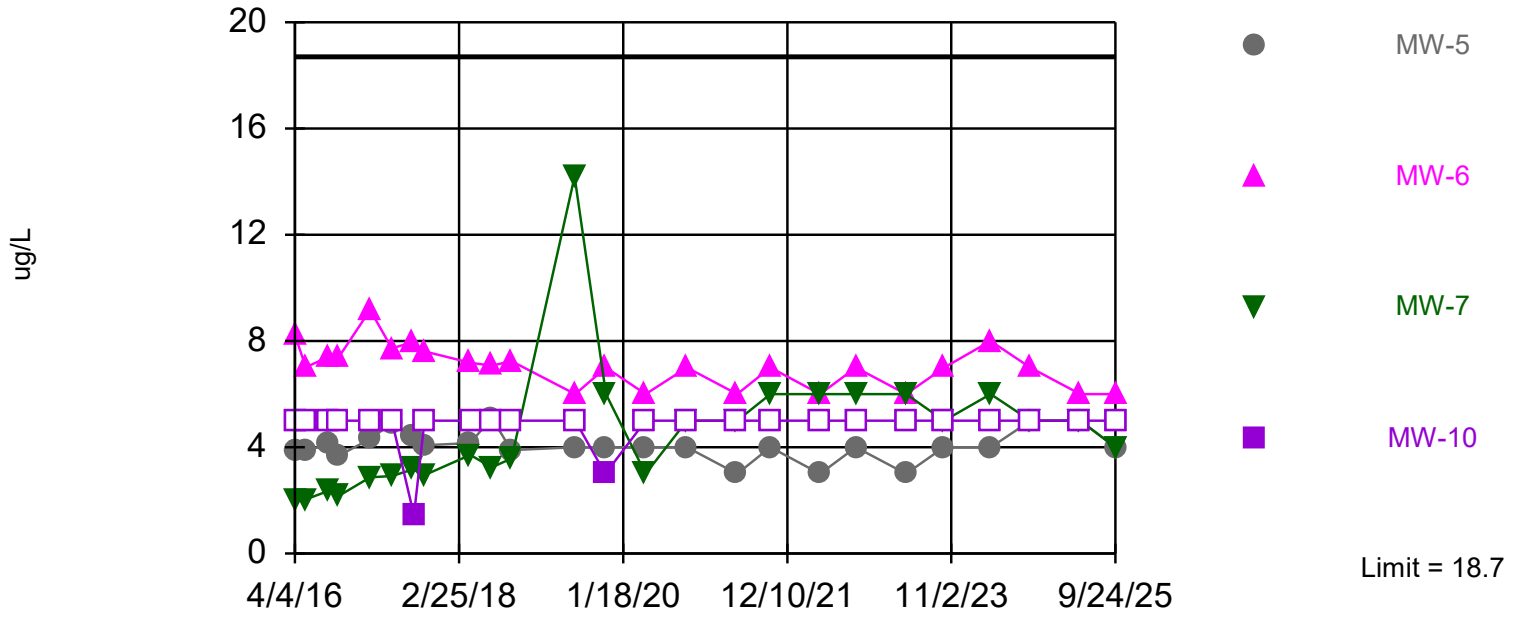
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Molybdenum Analysis Run 11/13/2025 8:55 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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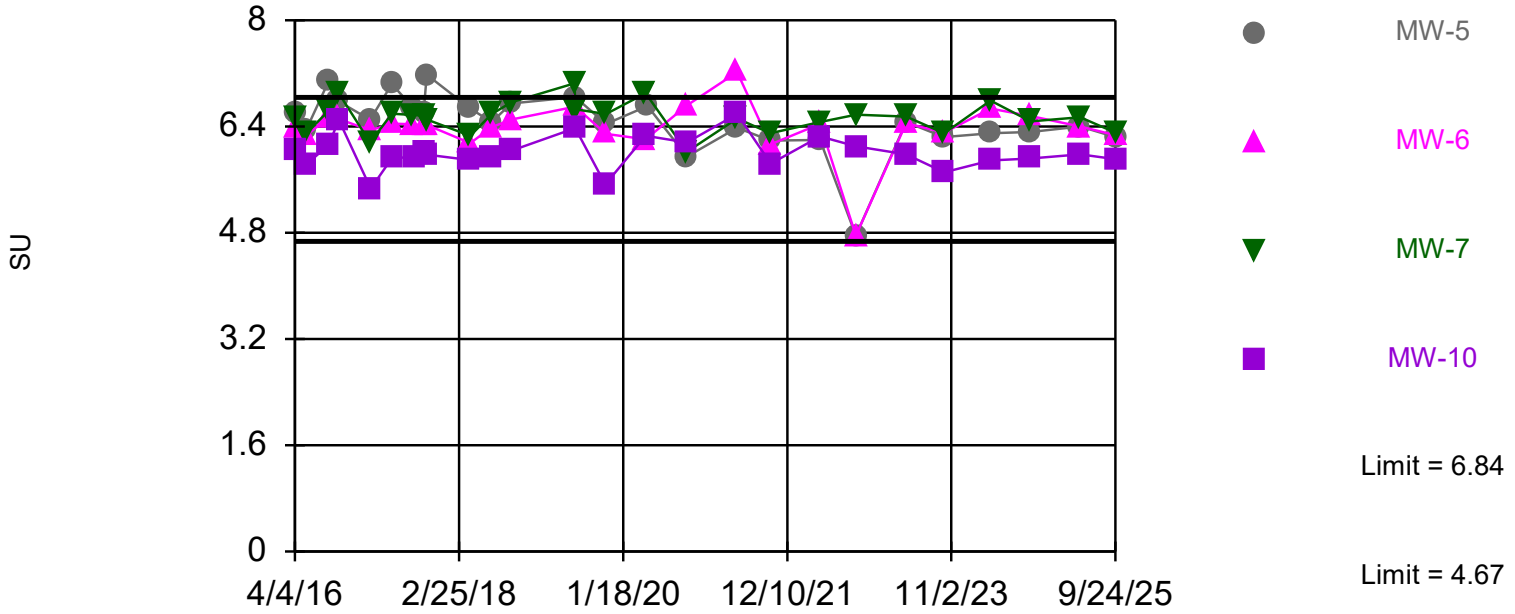
Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 25 background values. Report alpha = 0.2759. Individual comparison alpha = 0.07285. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: pH Analysis Run 11/13/2025 8:56 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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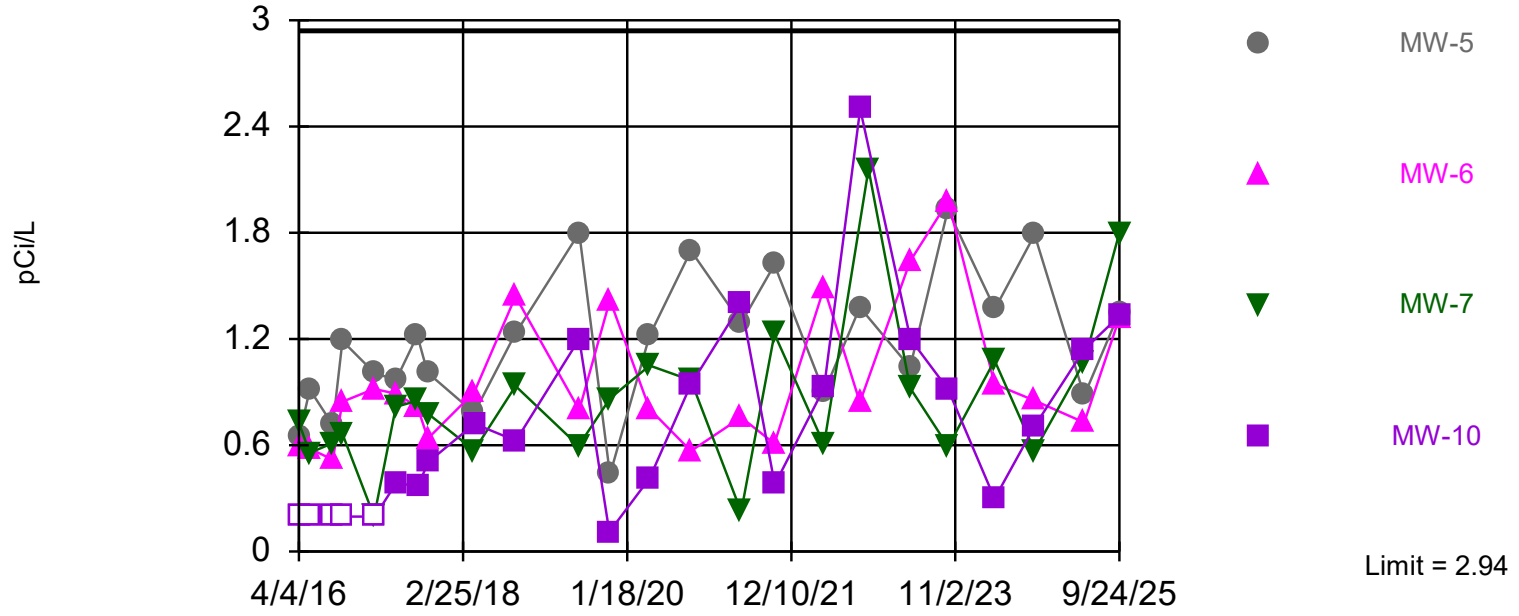
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 23 background values. Report alpha = 0.1481. Individual comparison alpha = 0.03929. Most recent point for each compliance well compared to limit. EPA 1989 outlier screening was performed on the background data. One background outlier was removed: 0.3 (9/30/2024). Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Radium 226 + 228 Analysis Run 11/13/2025 8:56 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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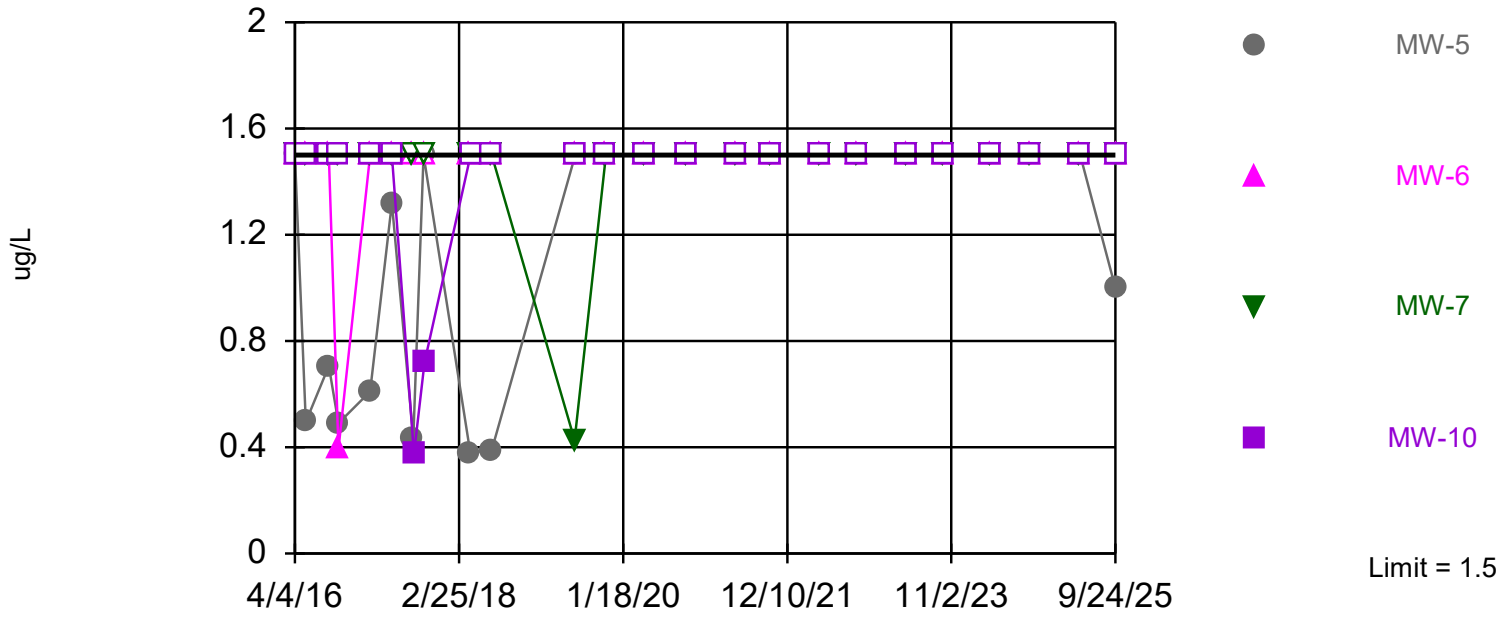
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Report alpha = 0.1429. Individual comparison alpha = 0.0378. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Selenium Analysis Run 11/13/2025 8:56 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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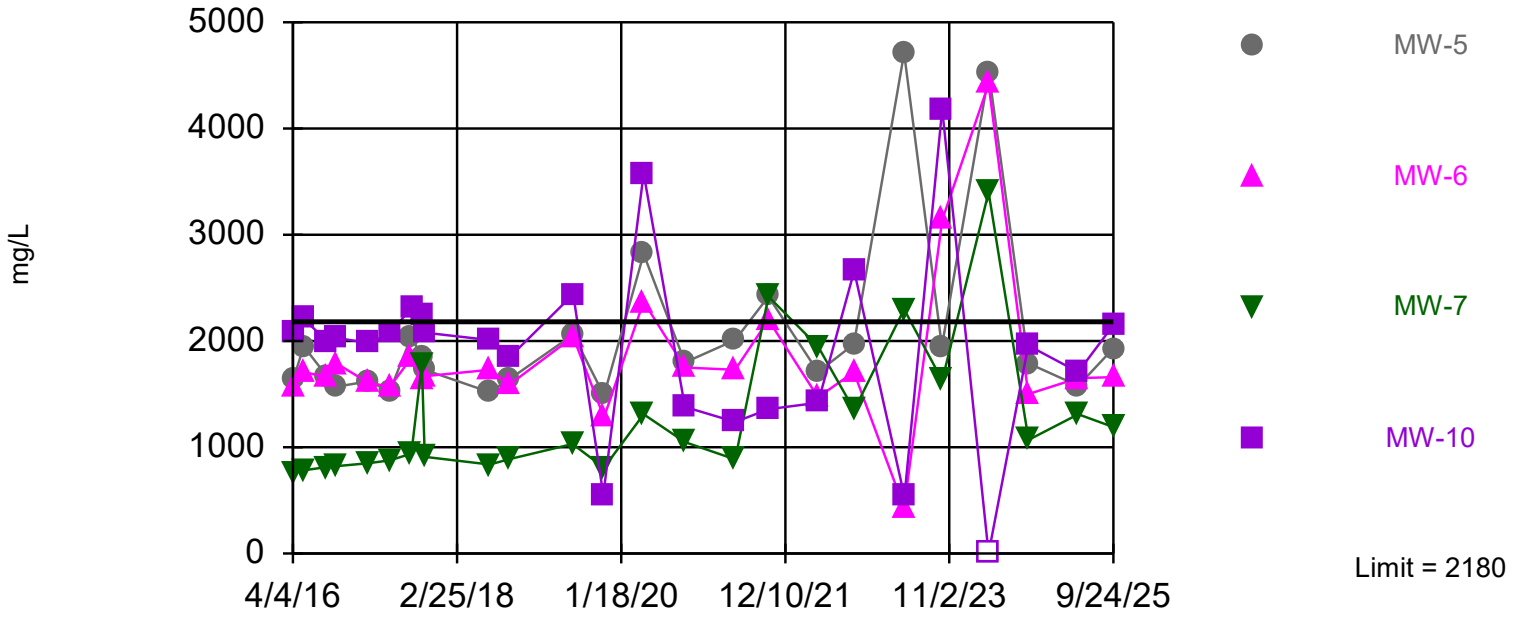
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 26 background values. Report alpha = 0.1333. Individual comparison alpha = 0.03514. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Sulfate Analysis Run 11/13/2025 8:56 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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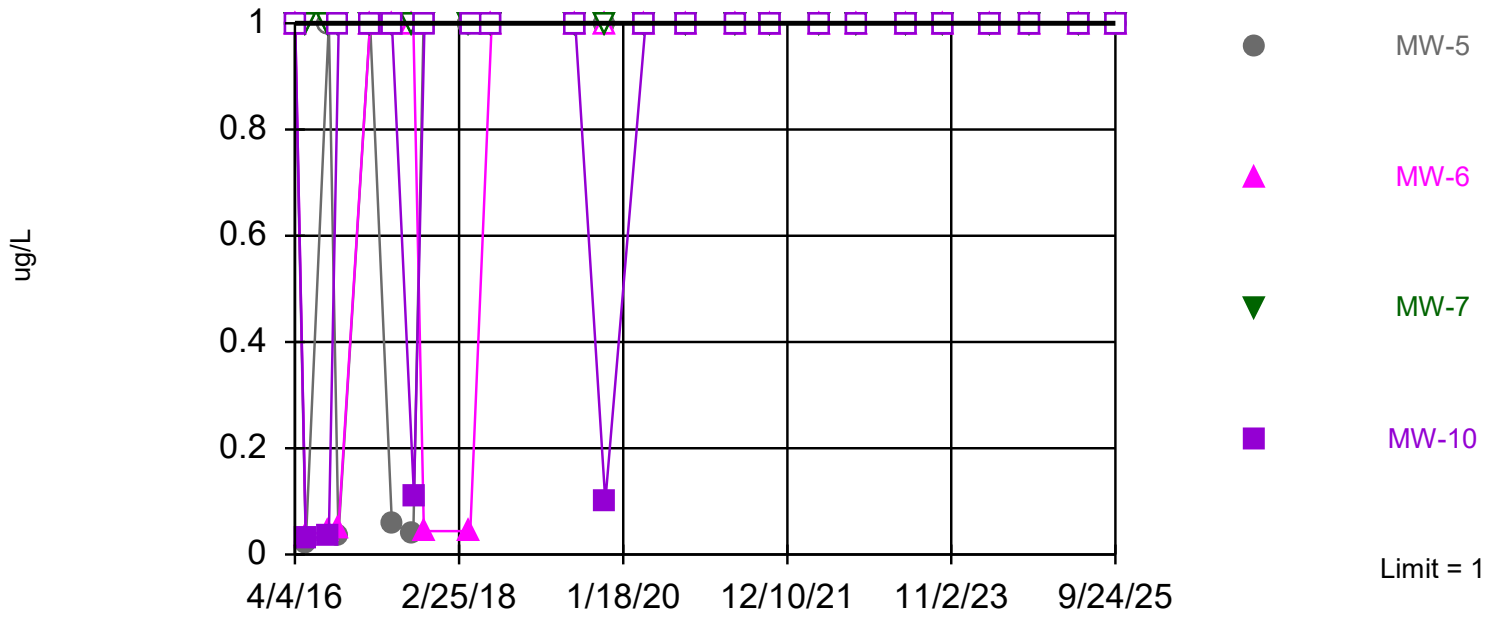
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 88% NDs. Report alpha = 0.1379. Individual comparison alpha = 0.03643. Most recent point for each compliance well compared to limit. After outlier removal distribution was non-normal, so outlier results were invalidated. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Thallium Analysis Run 11/13/2025 8:56 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

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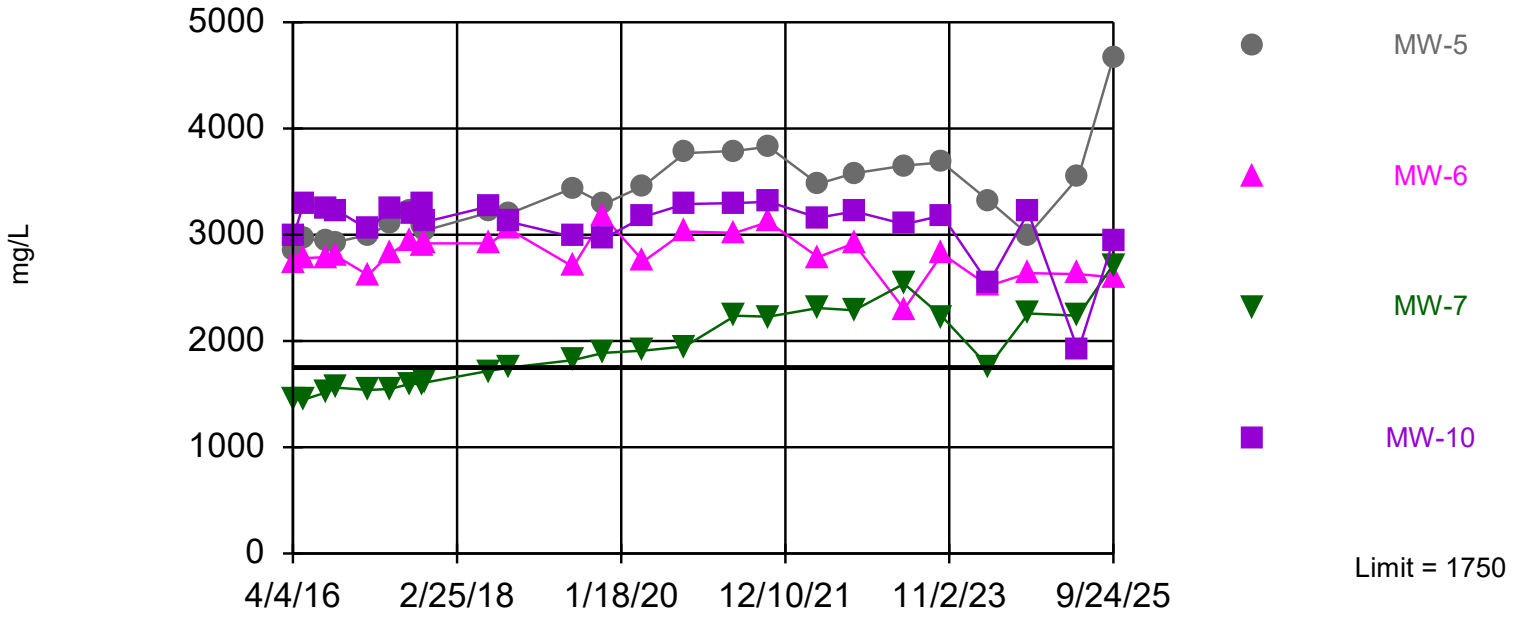
Exceeds Limit: MW-5, MW-6, MW-7, MW-10

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 26 background values. Report alpha = 0.1333. Individual comparison alpha = 0.03514. Most recent point for each compliance well compared to limit. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified. Insufficient data to test for seasonality; data will not be deseasonalized.

Constituent: Total Dissolved Solids Analysis Run 11/13/2025 8:56 AM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile

Confidence Interval

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (ug/L)	MW-5	7.439	6.362	9	No	25	4	No	0.05	Param.
Cobalt (ug/L)	MW-6	7.673	7.002	9	No	25	0	No	0.05	Param.
Cobalt (ug/L)	MW-7	4.54	4	9	No	25	48	No	0.05	NP (normality)
Cobalt (ug/L)	MW-8 (bg)	4	1.18	9	No	24	54.17	No	0.05	NP (NDs)
Cobalt (ug/L)	**MW-10**	**102.4**	**81.18**	**9**	**Yes**	**25**	**0**	**No**	**0.05**	**Param.**
Lithium (ug/L)	MW-5	37.89	33.34	40	No	25	0	No	0.05	Param.
Lithium (ug/L)	MW-6	47	40	40	No	25	0	No	0.05	NP (normality)
Lithium (ug/L)	MW-7	30	27.3	40	No	25	0	No	0.05	NP (normality)
Lithium (ug/L)	MW-8 (bg)	11.6	9.59	40	No	25	16	No	0.05	NP (normality)
Lithium (ug/L)	MW-10	10.61	8.763	40	No	25	12	No	0.05	Param.

Confidence Interval

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (ug/L)	**MW-10**	**102.4**	**81.18**	**9**	**Yes**	**25**	**0**	**No**	**0.05**	**Param.**

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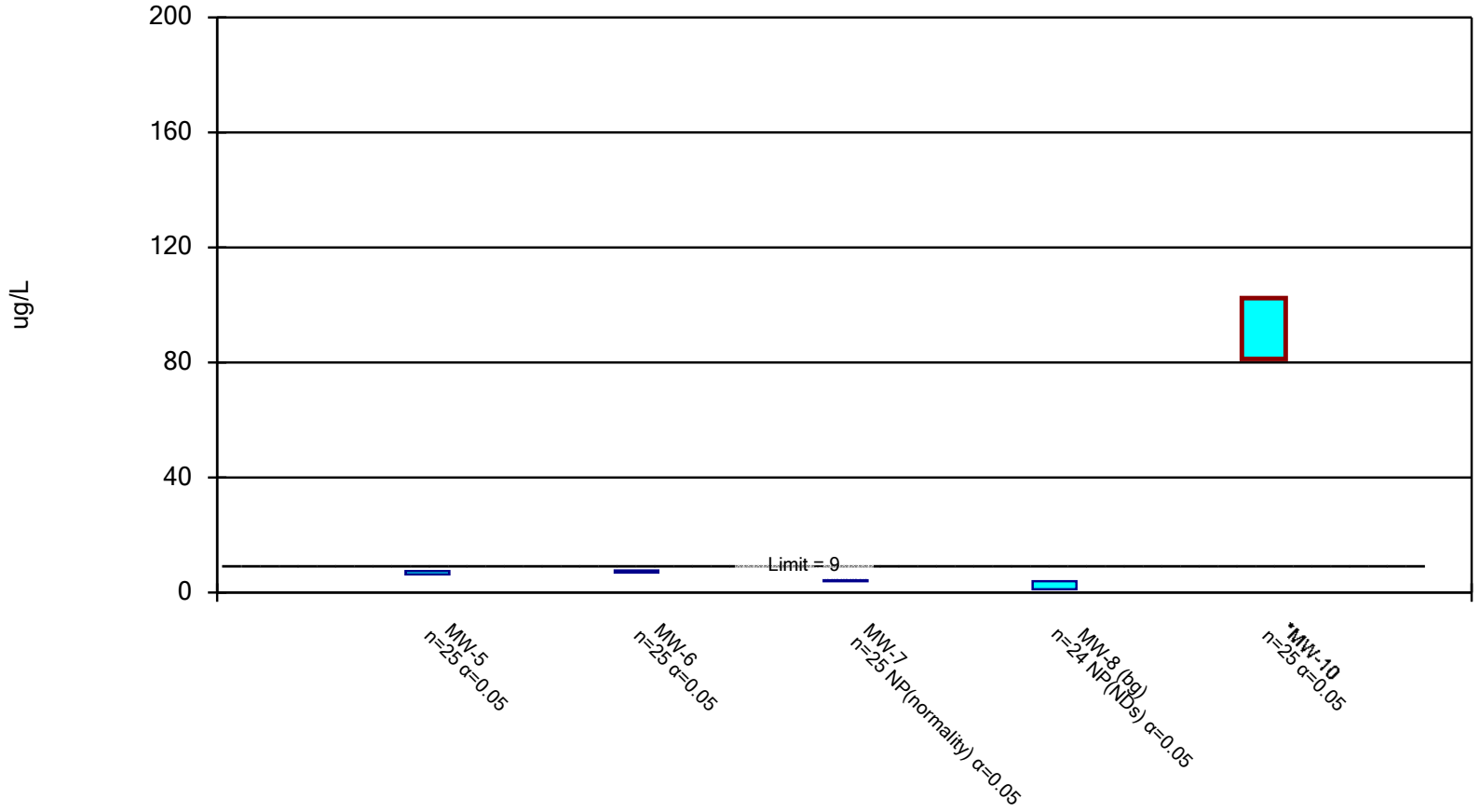
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 12/8/2025 10:31 PM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile[IN USE BY B737721]

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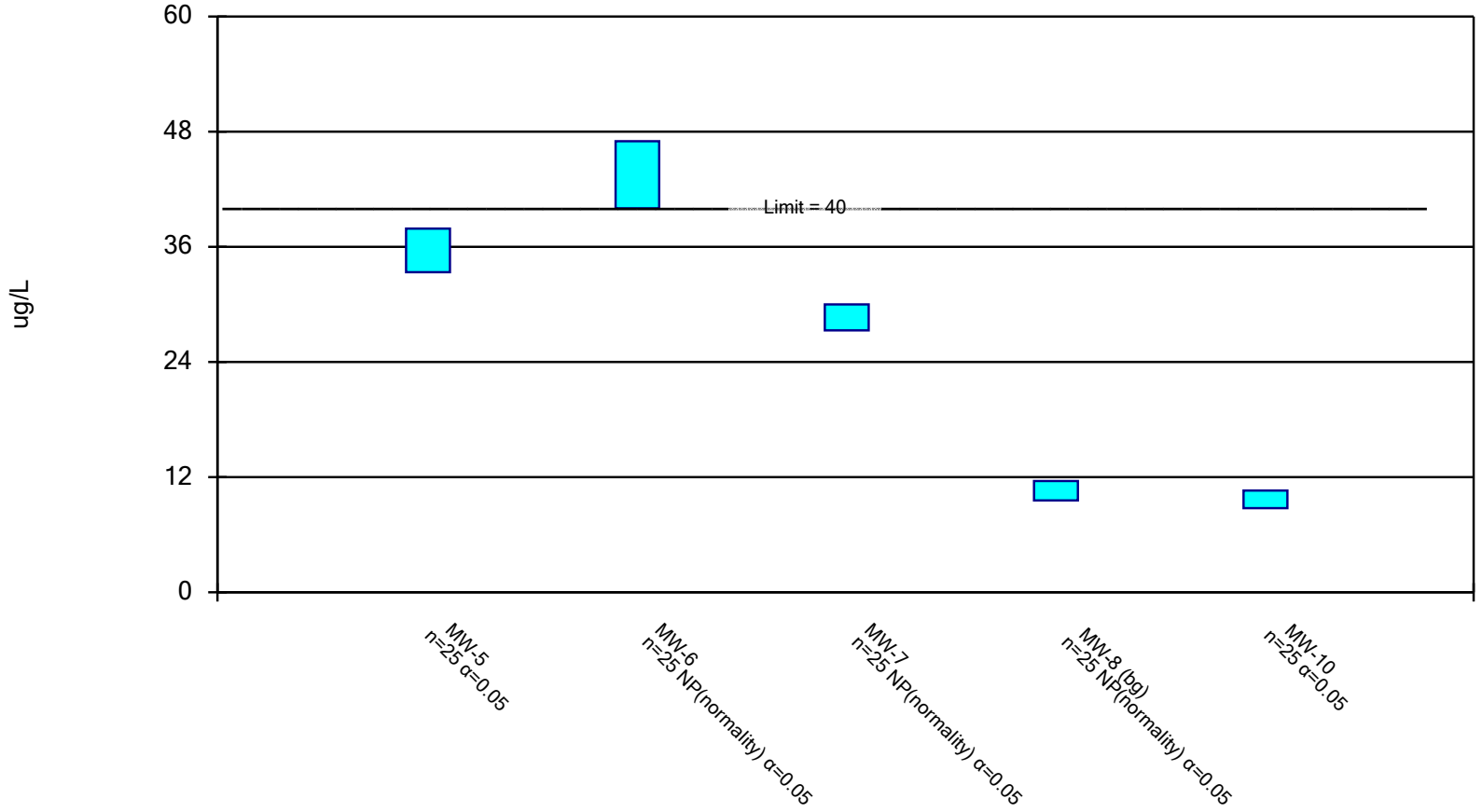
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/8/2025 10:31 PM View: 2H2025_CCR

Big Rivers Electric Corp. Client: Burns & McDonnell Data: BREC Wilson_Datafile[IN USE BY B737721]

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