



2024 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

MULTI-UNIT ASH POND SYSTEM

EAGLE VALLEY GENERATING STATION

PREPARED FOR:

Mr. David Heger

Senior Counsel

AES US Services. LLC

One Monument Circle, Suite 701A

Indianapolis, IN 46204-2901

PREPARED BY:

Atlas Technical Consultants LLC
7988 Centerpoint Drive, Suite 100
Indianapolis, IN 46256

January 30, 2025



January 30, 2025

Atlas Project No. 170AES0001

Mr. David M. Heger
Senior Counsel
AES US Services, LLC
One Monument Circle, Suite 701A
Indianapolis, Indiana 46204-2901

Re: 2024 CCR Annual Groundwater Monitoring and Corrective Action Report
Indianapolis Power & Light Company d/b/a AES Indiana (AESI)
Eagle Valley Generating Station – Multi-Unit Ash Pond System
Martinsville, Indiana
Atlas Project No. 170AES0001

Dear Mr. Heger:

Atlas Technical Consultants LLC (Atlas) has prepared this 2024 CCR Annual Groundwater Monitoring and Corrective Action Report for the Ash Pond System at the AESI Eagle Valley Generating Station (EVGS) located outside Martinsville, Morgan County, Indiana. This report has been prepared to comply with reporting requirements described in the United States Environmental Protection Agency's (USEPA) Coal Combustion Residuals (CCR) Rule § 257.90(e). This annual report documents the status of the groundwater monitoring and corrective action program for the Ash Pond System and includes information required by § 257.90(e)(1) through § 257.90(e)(6).

Federal CCR Rule § 257.90(e)(6) specifies the following:

A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following: (i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95; (ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95; (iii) If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e): (A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase; and (B) Provide the date when the assessment monitoring program was initiated for the CCR unit. (iv) If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to § 257.95(g) include all of the following: (A) Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase; (B) Provide the date when the assessment of corrective measures was initiated for the CCR unit; (C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and (D) Provide the date when the assessment of corrective measures was completed for the

CCR unit. (v) Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection; and (vi) Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

Overview of 2024 Groundwater Monitoring and Corrective Action

For the duration of the 2024 reporting period, the CCR units at the EVGS – Ash Pond System were being monitored under the Assessment Monitoring Program defined in § 257.95. Pursuant to 40 CFR 257.94(e)(2), 257.94(e)(3) and 257.95(b), the facility had previously established an Assessment Monitoring Program in accordance with the requirements of § 257.95 on July 16, 2018. Therefore, evaluation of statistically significant increase over background for one or more constituents listed in Appendix III to this part pursuant to § 257.94(e) was not performed in 2024.

At the end of the 2024 reporting period, it was determined that the following Appendix IV constituents were at statistically significant levels (SSLs) above the associated groundwater protection standards (GWPS) pursuant to § 257.95(g)¹. The SSLs are as follows:

Arsenic	Lithium	Molybdenum
<i>SHALLOW</i>		
MW-11S	MW-1S	
	MW-6S	
	MW-10S	
	MW-11S	
	MW-12S	
<i>INTERMEDIATE</i>		
	MW-1I	MW-6I
	MW-6I	MW-11I
	MW-11I	
<i>DEEP</i>		
	MW-1D	MW-6D
	MW-6D	MW-11D
	MW-11D	

The above listed SSLs are not new constituent SSLs and were previously identified. Therefore, no new SSL notification was required pursuant to § 257.94(e).

The assessment of corrective measures was initiated for the EVGS CCR regulated units on April 15, 2019, in response to SSLs of Appendix IV constituents exceeding GWPS. Pursuant to 40 CFR §257.96(a), a demonstration of need for a 60-day extension for the assessment of corrective measures was completed on July 12, 2019. The Corrective Measures Assessment (CMA) Report was completed and placed in the facility operating record on September 13, 2019 and subsequently amended on October 11, 2019.

¹ SSLs provided are based on the April 2024 monitoring event, as October 2024 SSLs were not finalized in 2024.

Following determination of the nature and extent (N&E) of Appendix IV SSLs pursuant to § 257.95(g), AESI posted an updated CMA Report for Ash Ponds A, B, and C to the EVGS public CCR website in April 2024. The updated CMA Report accounts for the supplemental information collected since 2019 which is sourced from additional monitoring data, groundwater N&E investigations, conceptual site model development, geochemical and site-specific investigations, groundwater modeling updates, and potential corrective measures evaluations.

AESI held a public meeting in May 2024 to discuss the results of the updated CMA for Ash Ponds A, B, and C in accordance with §257.96(e).

AESI will evaluate the comments and input gained during the May 2024 public meeting and begin the selection of remedy evaluation process for Ash Ponds A, B, and C. A remedy will be selected pursuant to § 257.97, and implementation of the selected remedy will be initiated thereafter in accordance with § 257.98.

Federal CCR Rule § 257.90(e) specifies the following:

For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2019, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

The following key actions have been completed in 2024 to comply with 40 CFR 257.90-98:

- October 2023 laboratory analytical reports were finalized and placed in the facility operating record pursuant to 40 CFR 257.95(d)(1).
- Completed an updated CMA Report for Ash Ponds A, B, and C in April 2024. The updated CMA Report accounts for the supplemental information collected since 2019, which is sourced from additional monitoring data, groundwater N&E investigations, conceptual site model development, geochemical and site-specific investigations, groundwater modelling updates, and potential corrective measures evaluations.
- Held a public meeting in May 2024 to discuss the results of the updated CMA for Ash Ponds A, B, and C in accordance with § 257.96(e).

- Semi-annual assessment monitoring sampling events were conducted in 2024 as required by § 257.95(b) and § 257.95(d)(1). Pursuant to 40 CFR 257.95(b), each Appendix IV constituent was sampled in 2024. Pursuant to 40 CFR 257.95(d)(1), semi-annual sampling of each Appendix III parameter and Appendix IV constituent detected in response to 40 CFR 257.95(b) was conducted in 2024. Specifically, each Appendix IV constituent was sampled during the spring event. If a constituent is not detected at the site during the spring event, it is not analyzed during the fall event. Sampling events were performed consistent with 40 CFR 257.93(e). Subsequent SSLs evaluation of the October 2023 and April 2024 data were performed within 90 days of completing the sampling and analysis pursuant to § 257.93(h)(2)².
- On-site N&E groundwater sampling events were completed at monitoring wells MW-3D, MW-12I, MW-12D, MW-24S, MW-24I, MW-24D, MW-25S, MW-25I, MW-25D, MW-26S, MW-26I, and MW-26D in April and October 2024.
- Off-site N&E groundwater sampling events were completed in April and October 2024 to define the lateral and vertical extent of Appendix IV constituents.
- Semi-Annual Remedy Selection Progress Reports pursuant to § 257.97(a) for the period of September 14, 2023 through March 11, 2024, and for the period of March 12, 2024 through September 7, 2024 were completed and placed in the facility's operating record and posted to AESI's CCR Website.

To report on the activities conducted during the prior calendar year and document compliance with the CCR Rule, the specific requirements listed in § 257.90(e)(1) through § 257.90(e)(5) are provided below in bold/italic type followed by a short narrative addressing how that specific requirement has been met.

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

§ 257.90(e)(1) A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit.

AESI operates the Eagle Valley Station located approximately four miles north of Martinsville, Indiana. It is located at 4040 Blue Bluff Road. A Site Location Map is provided as **Figure 1**. A map showing the location of each CCR management unit, associated upgradient and downgradient CCR monitoring wells, in addition to N&E wells installed between 2019 and 2023, is provided as **Figure 2**.

² Sampling results for the October 2023 and April 2024 semi-annual assessment monitoring events are summarized in **Table 3** and **Table 4**, respectively. Please refer to Section § 257.90(e)(4) on Page 10 of this report regarding SSL evaluation results.

§ 257.90(e)(2) Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;

No monitoring equipment was installed or abandoned during 2024.

The location of the CCR monitoring well network and N&E wells are depicted on **Figure 2**.

§ 257.90(e)(3) In addition to all the monitoring data obtained under § 257.90 through §257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

Table 1 provides a summary of the number of samples collected at each CCR monitoring well and N&E monitoring well/piezometer, sampling dates, and designation of whether samples were required by the detection or assessment monitoring program, or N&E.

Groundwater elevation data is provided in **Table 2**.

Assessment monitoring and N&E monitoring results for the October 2023 semi-annual sampling event which includes enhancement wells MW-3D, MW-12I, MW-12D, MW-26S, MW-26I, and MW-26D, on-site N&E wells MW-14S, MW-14I, MW-14D, MW-15S, MW-15I, MW-15D, MW-16S, MW-16I, MW-16D, MW-24S, MW-24I, MW-24D, MW-25S, MW-25I, and MW-25D, and off-site N&E wells MW-17S, MW-17I, MW-17D, MW-18S, MW-18I, MW-18D, MW-19S, MW-19I, MW-19D, MW-20I, MW-20D, MW-21S, MW-21I, MW-21D, MW-22S, MW-22I, MW-22D, MW-23S, MW-23I, and MW-23D are summarized in **Table 3**; these results were not finalized by the end of 2023 for inclusion in the associated 2023 Annual Report. MW-6S, MW-8S, MW-10S, MW-11S, and MW-20S were dry during the October 2023 event.

Assessment monitoring and N&E monitoring results for the April 2024 semi-annual sampling event which includes enhancement wells MW-3D, MW-12I, MW-12D, MW-26S, MW-26I, and MW-26D, on-site N&E wells MW-14S, MW-14I, MW-14D, MW-15S, MW-15I, MW-15D, MW-16S, MW-16I, MW-16D, MW-24S, MW-24I, MW-24D, MW-25S, MW-25I, and MW-25D, and off-site N&E wells MW-17S, MW-17I, MW-17D, MW-18S, MW-18I, MW-18D, MW-19S, MW-19I, MW-19D, MW-20S, MW-20I, MW-20D, MW-21S, MW-21I, MW-21D, MW-22S, MW-22I, MW-22D, MW-23S, MW-23I, and MW-23D are summarized in **Table 4**. No wells were dry during the April 2024 event.

Potentiometric surface maps for the April 2024 sampling event are provided as **Figure 3** through **Figure 5**. Potentiometric surface maps for the October 2024 sampling event are provided as **Figure 6** through **Figure 8**. Flow rate vectors are depicted on the maps. Gauging summary tables and flow velocity calculations for each event are provided as supporting documentation in **Appendix A**. Laboratory certificates of analysis are provided in **Appendix B**.

Statistical Evaluation Procedures

The statistical evaluation procedures created for the EVGS define the statistical tests to be used for this site's CCR groundwater detection monitoring system. The evaluation methods specify statistical tests for the detection monitoring program (Appendix III parameters) and assessment monitoring program (Appendix IV parameters) described in 40 CFR 257. These evaluation methods were created to comply with the requirements of § 257.93(f).

This plan is based on the use of the commercial software DUMPStat³ (Version 3.0). The DUMPStat program uses statistical tests, procedures, and testing sequences described in Statistical Methods for Groundwater Monitoring⁴ (Gibbons et. al., 2009). The statistical methods for the EVGS CCR monitoring system are designed to be consistent with ASTM International Standard Guide for Developing Appropriate Statistical Approaches for Groundwater Detection Monitoring Programs at *Waste Disposal Facilities* (D6312-17) along with federal and state guidance and are also consistent with Indiana's regulations addressing statistical evaluation of groundwater at solid waste landfills.

At the beginning of 2024 the CCR ash pond groundwater monitoring system consisted of twenty-seven (27) monitoring wells: MW-1S, MW-1I, MW-1D, MW-2S, MW-2I, MW-2D, MW-3S, MW-3I, MW-4S, MW-4I, MW-4D, MW-6S, MW-6I, MW-6D, MW-7S, MW-8S, MW-9S, MW-9I, MW-9D, MW-10S, MW-11S, MW-11I, MW-11D, MW-12S, MW-13S, MW-13I, and MW-13D. Monitoring wells MW-13S, MW-13I, and MW-13D represented upgradient/background wells, while the remaining represented downgradient wells. The MW-1 through MW-12 series wells were installed in accordance with the requirements of Federal CCR Rule § 257.91 between September 28, 2015 and March 17, 2016, while the MW-13 nest was installed in late June-early July 2019.

As part of investigations to determine the nature & extent of the release as required by § 257.95(g)(1), several additional wells have been installed, including the MW-13 nest that is located near the southeast corner of the facility. The MW-13 through MW-16 N&E well clusters were installed to serve as facility downgradient boundary wells pursuant to § 257.95(g)(1)(iii). Subsequent water level gauging and water table mapping, however, showed that the MW-13 well cluster was not hydraulically downgradient as anticipated but was, in fact, upgradient.

The original upgradient/background wells (MW-4S, MW-4I, MW-4D, MW-8S, MW-9S, MW-9I, and MW-9D) were installed at locations that were believed to represent the quality of background groundwater and the quality of groundwater passing the waste boundary. However, based on site-specific data gathered since installation (including data variability caused by the proximity of the background wells to the multi-unit boundary and the discharge canal), the wells were replaced with a new background well nest: MW-13S, MW-13I, and MW-13D. This well nest is located in the same hydrostratigraphic unit approximately 1,400 feet east of the multiunit boundary in an area of the site unaffected by a CCR unit. Due to the aforementioned data variability of the former background wells, updates to the background database were paused after May 2019. In the meantime, assessment monitoring activities continued and the data was compared to the background well data collected between April 2016 and May 2019.

³ DUMPStat Version 3.0 was written by Robert D. Gibbons and is distributed and supported by Discerning Systems Inc.

⁴ Gibbons, R.D., Bhaumik D. K., Aryal S., 2009, Statistical Methods for Groundwater Monitoring, Second Edition, John Wiley & Sons, Inc. New York, 374 pages.

The groundwater monitoring system was re-certified in December 2021 in accordance with the requirements of Federal CCR Rule § 257.91 to account for MW-13S, MW-13I, and MW-13D serving as the new upgradient/background monitoring wells for the CCR well network, replacing the original upgradient/background wells. The new background dataset has been used beginning with November 2021 semi-annual data comparisons.

Statistical levels defined in this evaluation plan depend, in part, on the values defined for certain settings in DUMPStat. The Plan is based on making interwell comparisons for each well and each parameter. The background database contains results from August 2019 through the current sampling event being evaluated. The facility used this background data for statistical comparisons to the October 2023 and April 2024 semi-annual event datasets. The minimum background sample size was set to eight (8). Under this plan, if a detection monitoring result in a compliance well exceeds a statistical limit, a statistically significant increase, or SSI, will be declared.

Semi-annual assessment monitoring sampling events were conducted in 2024 as required by § 257.95(b) and § 257.95(d)(1). Pursuant to 40 CFR 257.95(b), each Appendix IV constituent was sampled in 2024. Pursuant to 40 CFR 257.95(d)(1), semi-annual sampling of each Appendix III parameter and Appendix IV constituent detected in response to 40 CFR 257.95(b) was conducted in 2024. All sampling events were performed consistent with 40 CFR 257.93(e). Subsequent SSL evaluation of the October 2023 and April 2024 data were performed within 90 days of completing the sampling and analysis pursuant to § 257.93(h)(2).

1.1 Background Data

Pursuant to 257.94(b), the monitoring well network has been sampled to establish a minimum eight background data sets prior to completion of initial statistical analyses. Groundwater samples were analysed for the Appendix III parameters: boron (total), calcium (total), chloride, fluoride, pH, sulfate, and total dissolved solids (TDS); and for the Appendix IV parameters: antimony (total), arsenic (total), barium (total), beryllium (total), cadmium (total), chromium (total), cobalt (total), fluoride, lead (total), lithium (total), mercury (total), molybdenum (total), selenium (total), thallium (total), and total radium.

Included in this Appendix are summaries of the historical data for the statistically evaluated parameters for the EVGS. Historical data from groundwater sampling events were imported into the DUMPStat database. **Appendix C, Table 1** contains groundwater quality data collected from monitoring wells MW-13S, MW-13I, and MW-13D through the current semi-annual event being evaluated.

Prediction limits based on groundwater quality reported from the background monitoring wells were calculated for each parameter and are presented in **Appendix C, Table 5**.

1.2 Defined Statistical Tests - Interwell Statistical Comparisons

Appendix IV assessment monitoring parameters are statistically evaluated using the appropriate upgradient versus downgradient statistical test also known as an interwell statistical comparison. To assign the appropriate upgradient versus downgradient statistical test, DUMPStat first checks the parameter concentration to determine the detection frequencies (**Appendix C, Table 3**). It then applies the Shapiro-Wilk Test of Normality for Multiple Groups to determine if the data for

each parameter are normally or lognormally distributed, or if a nonparametric prediction limit must be used (**Appendix C, Table 4**). The statistics are then calculated and the prediction limits established (**Appendix C, Table 5**). DUMPStat screens the background data using Dixon's test to remove the outliers. The results of the Dixon's test are listed in **Appendix C, Table 6**. The parameters that exceed statistical limits in the downgradient monitoring wells, along with the associated historical data for those parameters, are listed in **Appendix C Table C-7**.

Among the background measurements, if the constituent fits normal/lognormal distribution, the parametric prediction limit is calculated; if the constituent does not fit normal/lognormal distribution or there is insufficient frequency of detections, the non-parametric prediction limit is calculated.

As will be explained in a subsequent section, calculated prediction limits are used in the development of GWPSs for each Appendix IV constituent.

1.3 False Positive Rates and Statistical Power

Included in this appendix is the power curve calculated by DUMPStat for the shallow, intermediate, and deep monitoring zones at the site for this interwell monitoring plan. As indicated in the US EPA Unified Guidance⁵ document, as a general guide, when background is approximately normal in distribution, a statistical test should be able to detect a 3-standard deviation increase at least 55-60% of the time, and a 4-standard deviation increase with at least 80-85% probability. The calculated statistical power curve for each zone indicates general compliance with this guidance; the facility's statistical program has the annual power to detect 3- and 4-standard deviation increases above the true background mean. It is expected that the power curves will also improve as additional background data are added over time.

1.4 Interwell Statistics Comparisons

Future groundwater quality results at monitoring wells MW-1S, MW-1I, MW-1D, MW-2S, MW-2I, MW-2D, MW-3S, MW-3I, MW-6S, MW-6I, MW-6D, MW-7S, MW-10S, MW-11S, MW-11I, MW-11D, and MW-12S will be statistically compared to results from monitoring wells MW-13S, MW-13I, and MW-13D.

1.5 Background Sample Size

The number of background samples for Appendix IV parameters is listed in the "N" column of **Appendix C, Table 5**. The minimum background sample size is eight.

1.6 Appendix IV Assessment Monitoring – Statistical Procedures to Determine GWPS Exceedances

In accordance with 257.95(a), as SSIs have previously been identified for one or more Appendix III constituents at one or more downgradient wells, an Appendix IV assessment monitoring program has been established. Prediction limits are calculated for each Appendix IV parameter. A GWPS for each Appendix IV parameter will also be established. The GWPS will be the larger of the background prediction limit, the regulatory standard (maximum contaminant level, MCL), or the

⁵ Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance, March 2009, EPA 530-R-09-007.

USEPA Screening Level⁶ for those Appendix IV constituents (cobalt, lithium, molybdenum) that do not have a defined MCL.

Appendix IV parameters are evaluated by calculating the lower confidence limit (LCL) on the mean of the last four reported concentrations for each Appendix IV parameter in each downgradient (compliance) well to the GWPS. This approach is discussed in technical literature (Gibbons and Coleman, 2001, Equation 19.5, p. 231)⁷ and the US EPA Unified Guidance (2009). The 95% LCL of the mean of the last four measurements for each Appendix IV constituent will be calculated as follows:

$$LCL = \bar{x} - t_s / \sqrt{m}$$

LCL = lower confidence limit for mean;

t = one-tailed 100(1- α) percentage point of Students *t*-distribution on m-1 degrees of freedom;

m = number of sample measurements;

s/\sqrt{m} = standard error of the mean; and

\bar{x} = sample mean of m measurements.

The procedure for evaluating LCLs to the GWPS to identify if an exceedance exists is as follows.

A. LCL EVALUATION OF FOUR MOST RECENT DATA RESULTS (TYPICALLY THE MOST RECENT TWO YEARS OF DATA)

Procedurally, the first step in the analysis compares the LCL to the GWPS based on the four most recent results. During this initial step, the associated mean of the four data points is also compared to the GWPS. LCL exceedances will be identified. See step B for additional description. For non-detect data, LCL calculations utilize 1/2 the median non-detect (ND) reporting limit (RL) from the well's cumulative non-detect sample results. If RL levels changed over time, the current calculated LCL value may be larger than the most recent four ND results.

B. MEAN VS. LCL QUANTITATIVE SCREENING EVALUATION

If a condition is identified where the *mean* exceeds the GWPS but the associated *LCL* does not, a concern is that, due either to the small sample size, an elevated standard deviation due to elevated sample result variability, the determination of no LCL GWPS exceedance may represent a “false negative” condition. For these isolated situations, an additional iteration of a larger dataset (typically N=8) is completed to determine if disagreement between the mean and LCL

⁶ USEPA Amendments to the National Minimum Criteria (Phase One, Part One), Disposal of Coal Combustion Residuals from Electric Utilities; effective August 29, 2018 (page 36444).

⁷ Gibbons, R.D., and Coleman, D.E., 2001. Statistical Methods for Detection and Quantification of Environmental Contamination, John Wiley & Sons, 384 pp.

relative to the GWPS continues to exist. Prior to conducting the test, trend analysis was performed to verify stationarity of the LCL data period. The longest data range of the most recent 5 to 8 samples that was technically appropriate to evaluate (no statistically significant trends) was utilized. If this condition could not be met, the LCL was not evaluated further.

Both the mean and LCL in this iteration are calculated based on the 8 most recent results (or alternate N= population). During the additional iteration, if both the mean and calculated LCL are determined to be above the GWPS, a preliminary exceedance may be considered valid. Conversely, if they are both below the GWPS, an exceedance is not declared. If a conflict is still present, the data would be evaluated in Step C.

C. QUALITATIVE VISUAL SCREENING EVALUATION

To better ensure that Steps A and B do not overlook a potential exceedance that exists if an even larger dataset were considered, Atlas will visually evaluate the confidence limit graphs and time series plots for these potential situations. If a dataset that meets stationarity is identified, an appropriate expanded dataset for that constituent/well pair will be evaluated for an LCL exceedance. Conflicts that aren't resolved in Step B are also carried over to Step C evaluation.

Appendix III detection monitoring will continue during the completion of the Appendix IV assessment monitoring program.

§ 257.90(e)(4) A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels);

AESI Eagle Valley operated under the assessment monitoring program in accordance with § 257.95. No transition between monitoring programs occurred during 2024. During 2024, statistical evaluations of the November 2023 and April 2024 analytical data were performed in order to determine whether there was a SSL of a new Appendix IV constituent detected above the relevant GWPS in accordance with § 257.95(g) and 257.93(h). The evaluations were completed in April 2024 and August 2024, respectively. Based on the evaluations, it was determined that the Appendix IV constituents that exceeded the GWPS include arsenic, lithium, and molybdenum; however, these are the same constituent SSLs previously identified. Since there were no new Appendix IV constituent SSLs identified, an additional notification was not triggered pursuant to 40 CFR 257.95(g). SSLs and associated wells are summarized on Page 2.

§ 257.90(e)(5) Other information required to be included in the annual report as specified in § 257.90 through § 257.98.

Table 5 summarizes the groundwater protection standards established in accordance with § 257.95(d)(2) and § 257.95(h) associated with both the October 2023 and April 2024 semi-annual assessment monitoring events.

Projected key activities for the upcoming year include the following:

- Assessment monitoring sampling events in accordance with § 257.95 and consistent with § 257.90(e).
- Complete statistical evaluation of October 2024 analytical data to determine whether there is a SSL above GWPS for Appendix IV constituents in accordance with § 257.95(g) and 257.93(h). Perform SSL evaluations of final April 2025 assessment monitoring analytical data.
- Begin preparing estimates quantity of Appendix IV material released.
- Continue to work with IDEM to gain approval of the November 2023 Closure and Post Closure Plan for Ponds A, B, and C.
- Prepare semi-annual report(s) describing progress in selecting and designing the remedy pursuant to § 257.97(a).

We appreciate the opportunity to assist with AESI's CCR Rule groundwater monitoring program at the EVGS Ash Pond System. Please contact any of the undersigned at 317.849.4990 if you have any questions regarding this report.

Respectfully submitted,
Atlas Technical Consultants LLC

Mark E. Breting

Mark E. Breting, L.P.G.
Senior Project Geologist

Robert T. Duncan

Robert T. Duncan, L.P.G.
Principal Geologist

Copies: Ms. Pilar Cuadra, AES US Services, LLC
Mr. Nicholas Williams, AES US Services, LLC

Figures

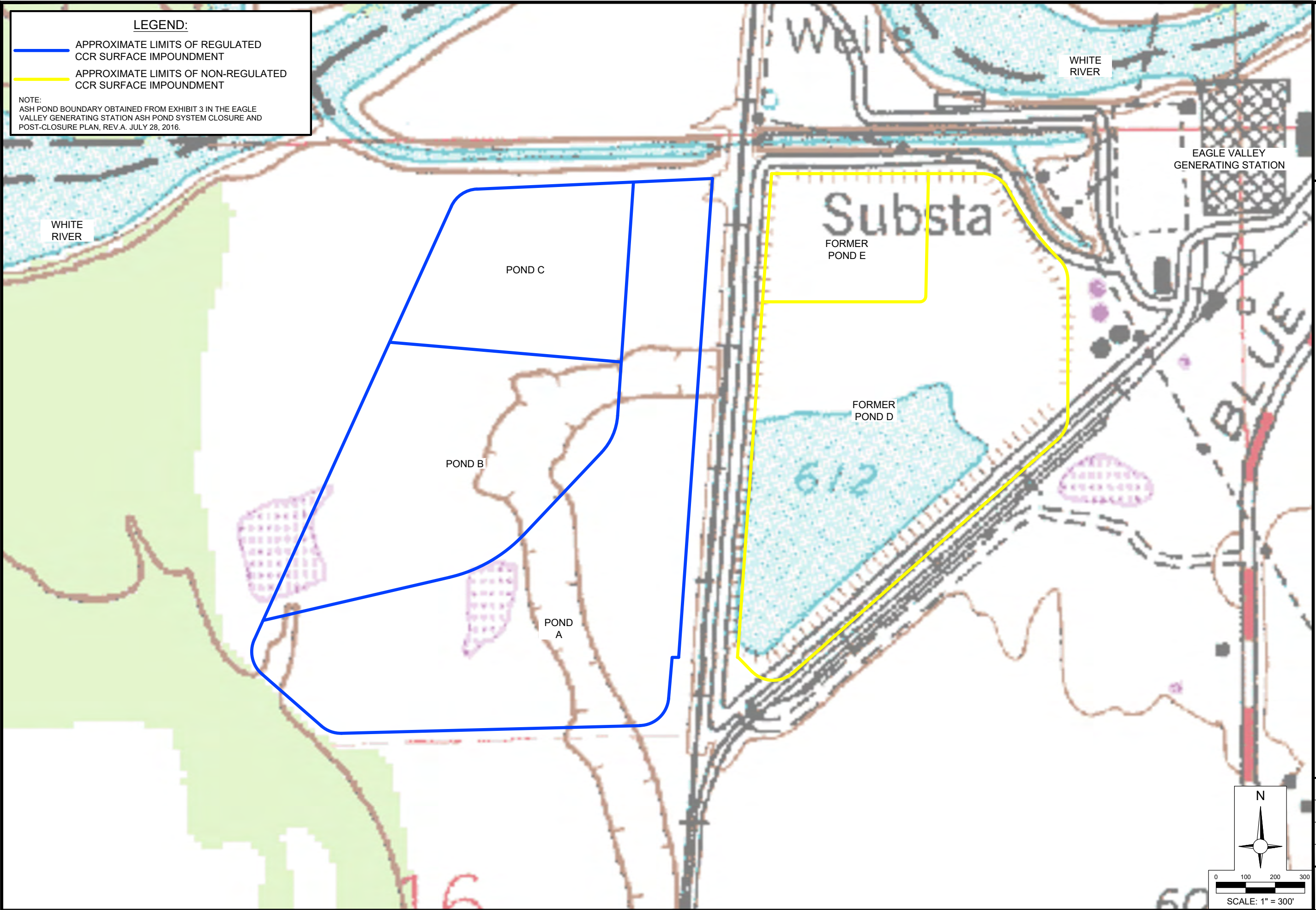
- Figure 1: Site Location Map
- Figure 2: Groundwater Monitoring System – CCR Network Wells and N&E Wells
- Figure 3: Potentiometric Surface Map – Shallow Zone – March 29, 2024
- Figure 4: Potentiometric Surface Map – Intermediate Zone - March 29, 2024
- Figure 5: Potentiometric Surface Map – Deep Zone - March 29, 2024
- Figure 6: Potentiometric Surface Map – Shallow Zone – September 30, 2024
- Figure 7: Potentiometric Surface Map – Intermediate Zone - September 30, 2024
- Figure 8: Potentiometric Surface Map – Deep Zone - September 30, 2024

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LEGEND:

- APPROXIMATE LIMITS OF REGULATED CCR SURFACE IMPOUNDMENT
- APPROXIMATE LIMITS OF NON-REGULATED CCR SURFACE IMPOUNDMENT

NOTE:
ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE EAGLE VALLEY GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV.A. JULY 28, 2016.



SITE LOCATION MAP
 AES INDIANA EAGLE VALLEY STATION
 4040 BLUE BUFF ROAD
 MARTINSVILLE, INDIANA

Project Number:
170LF01520

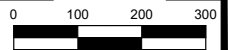
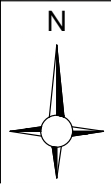
Date:
01/26/2024

Drn. By: BM	Ckd. By: MB
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Scale:
AS SHOWN

Figure:

1



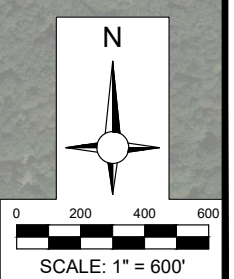
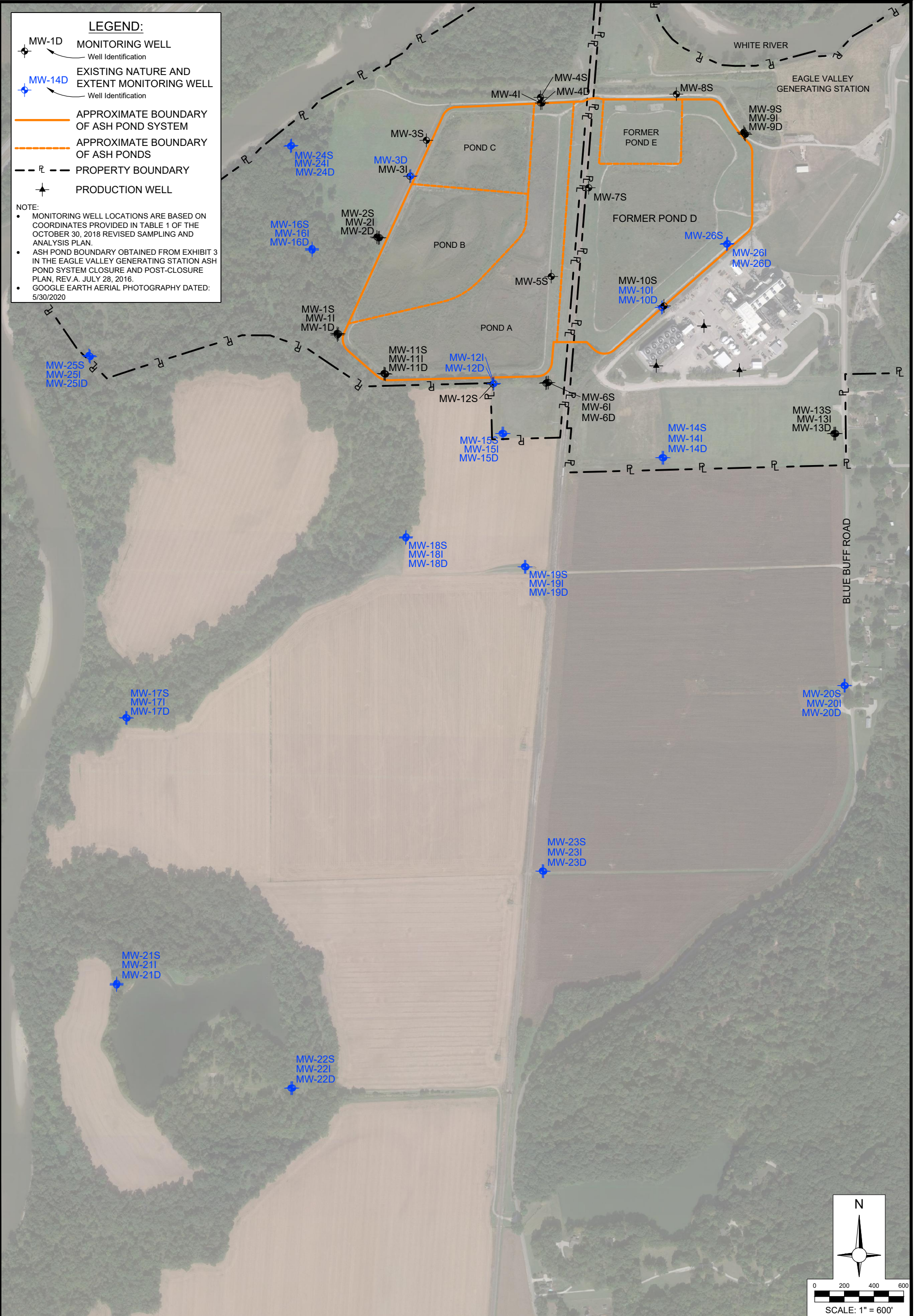
SCALE: 1" = 300'

LEGEND:

- MW-1D MONITORING WELL
Well Identification
- MW-14D EXISTING NATURE AND EXTENT MONITORING WELL
Well Identification
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH PONDS
- PROPERTY BOUNDARY
- PRODUCTION WELL

NOTE:

- MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE OCTOBER 30, 2018 REVISED SAMPLING AND ANALYSIS PLAN.
- ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE EAGLE VALLEY GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV.A. JULY 28, 2016.
- GOOGLE EARTH AERIAL PHOTOGRAPHY DATED: 5/30/2020

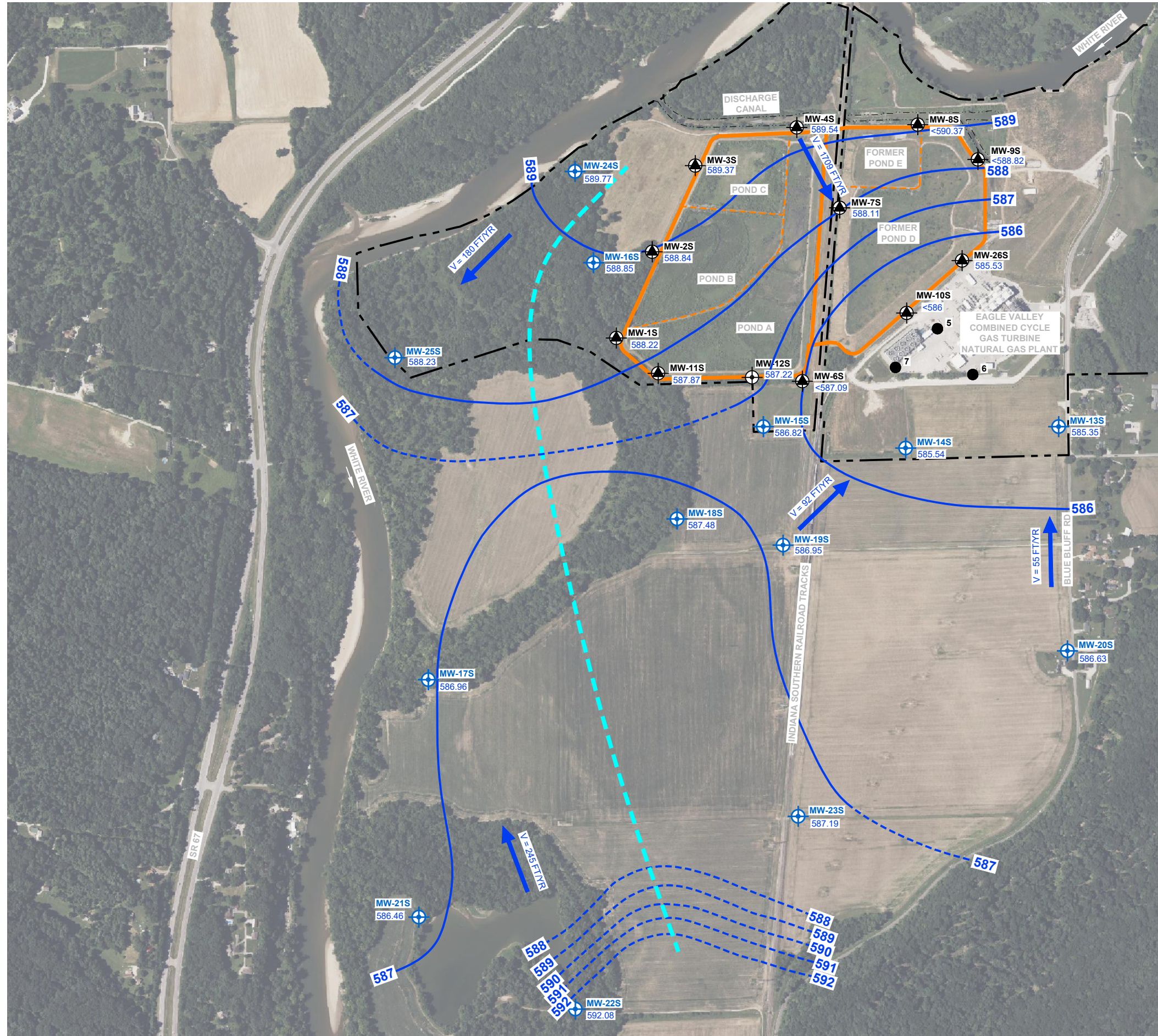


2	Figure:	AS SHOWN
	Scale:	AS SHOWN
	Dwn. By:	MB
	Ckd. By:	MB
Date:	01/26/2024	
Project Number:	170LF01502	

**GROUNDWATER MONITORING SYSTEM
CCR NETWORK WELLS AND NATURE & EXTENT WELLS**

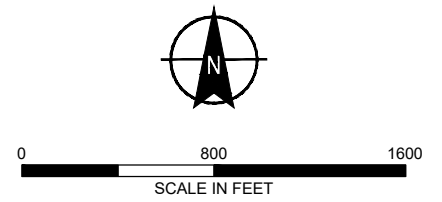
AES INDIANA EAGLE VALLEY STATION
4040 BLUE BUFF ROAD
MARTINSVILLE, INDIANA





- LEGEND**
- APPROXIMATE LIMITS OF PROPERTY
 - APPROXIMATE LIMITS OF ASH POND SYSTEM
 - APPROXIMATE BOUNDARY OF ASH POND
 - MW-3S CCR MONITORING WELL
 - MW-15S NATURE AND EXTENT MONITORING WELL
 - 5 PRODUCTION WELL
 - 583.22 GROUNDWATER ELEVATION IN FEET
 - ← GROUNDWATER FLOW DIRECTION
 - 585 1-FOOT GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
 - GROUNDWATER FLOW BREAKLINE

- NOTES**
1. AERIAL IMAGE FROM MICROSOFT BING MAPS, 2022.
 2. WELL DESIGNATION:
 - S = SHALLOW WELL
 - I = INTERMEDIATE WELL
 - D = DEEP WELL
 3. CCR = COAL COMBUSTION RESIDUALS
 4. "<" INDICATES GROUNDWATER ELEVATION BELOW THE TOP OF PUMP
 5. GROUNDWATER ELEVATION MEASUREMENTS COLLECTED BY ATLAS TECHNICAL CONSULTANTS, INC ON MARCH 29, 2024.

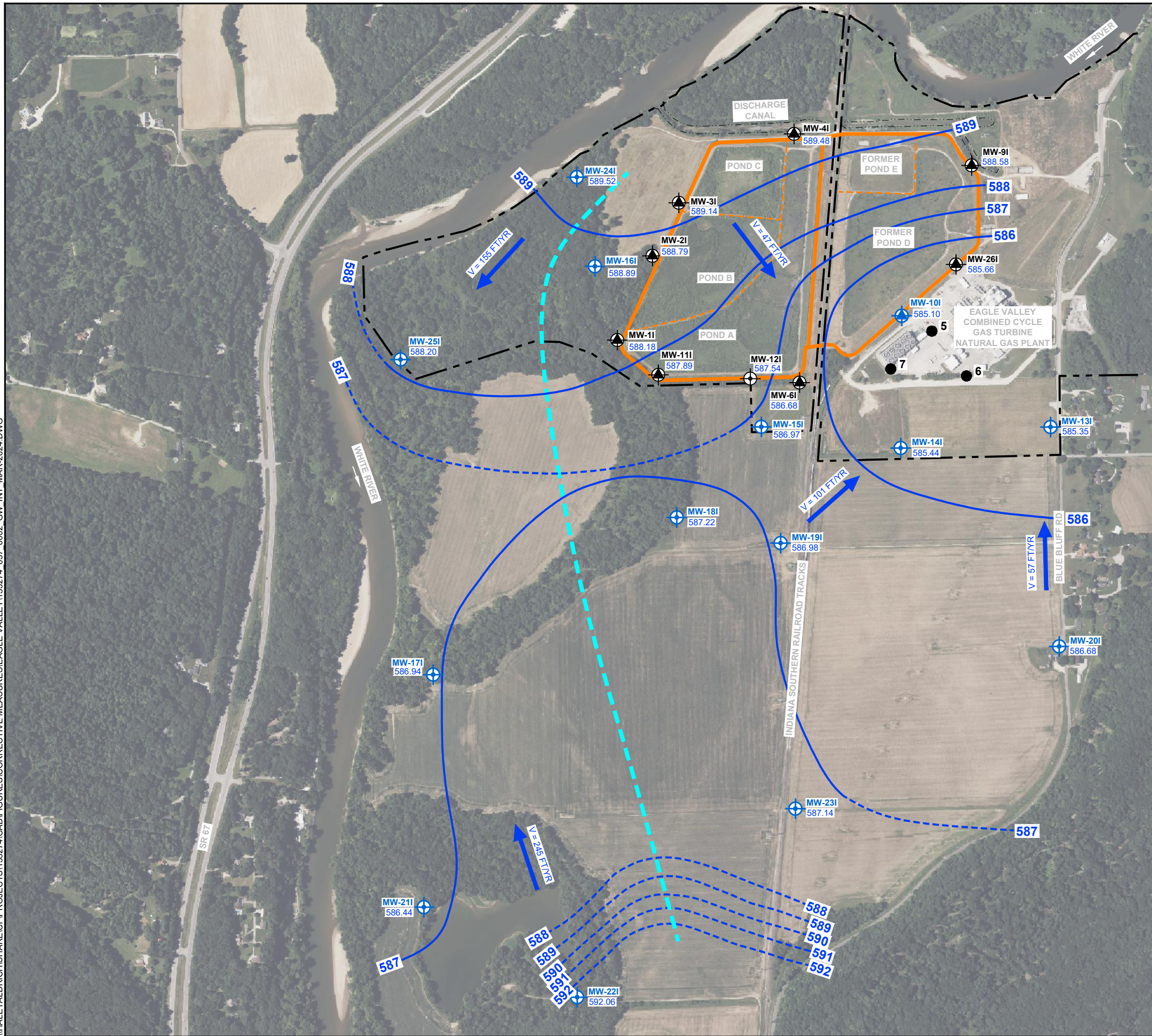


HALEY ALDRICH EAGLE VALLEY GENERATING STATION
 MARTINSVILLE, INDIANA

**GROUNDWATER FLOW MAP
 SHALLOW ZONE
 (MARCH 29, 2024)**

SCALE: AS SHOWN
 JANUARY 2025

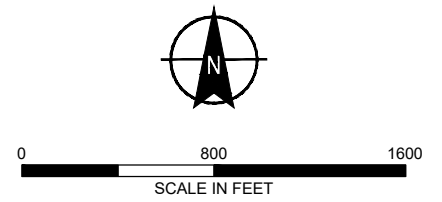
FIGURE 3



LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LIMITS OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH POND
- CCR MONITORING WELL
- NATURE AND EXTENT MONITORING WELL
- PRODUCTION WELL
- 583.88 GROUNDWATER ELEVATION IN FEET
- 1-FOOT GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- 585 1-FOOT GROUNDWATER ELEVATION CONTOUR IN FEET
- GROUNDWATER FLOW BREAKLINE

- NOTES**
1. AERIAL IMAGE FROM MICROSOFT BING MAPS, 2022.
 2. WELL DESIGNATION:
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 4. GROUNDWATER ELEVATION MEASUREMENTS COLLECTED BY ATLAS TECHNICAL CONSULTANTS, INC ON MARCH 29, 2024.



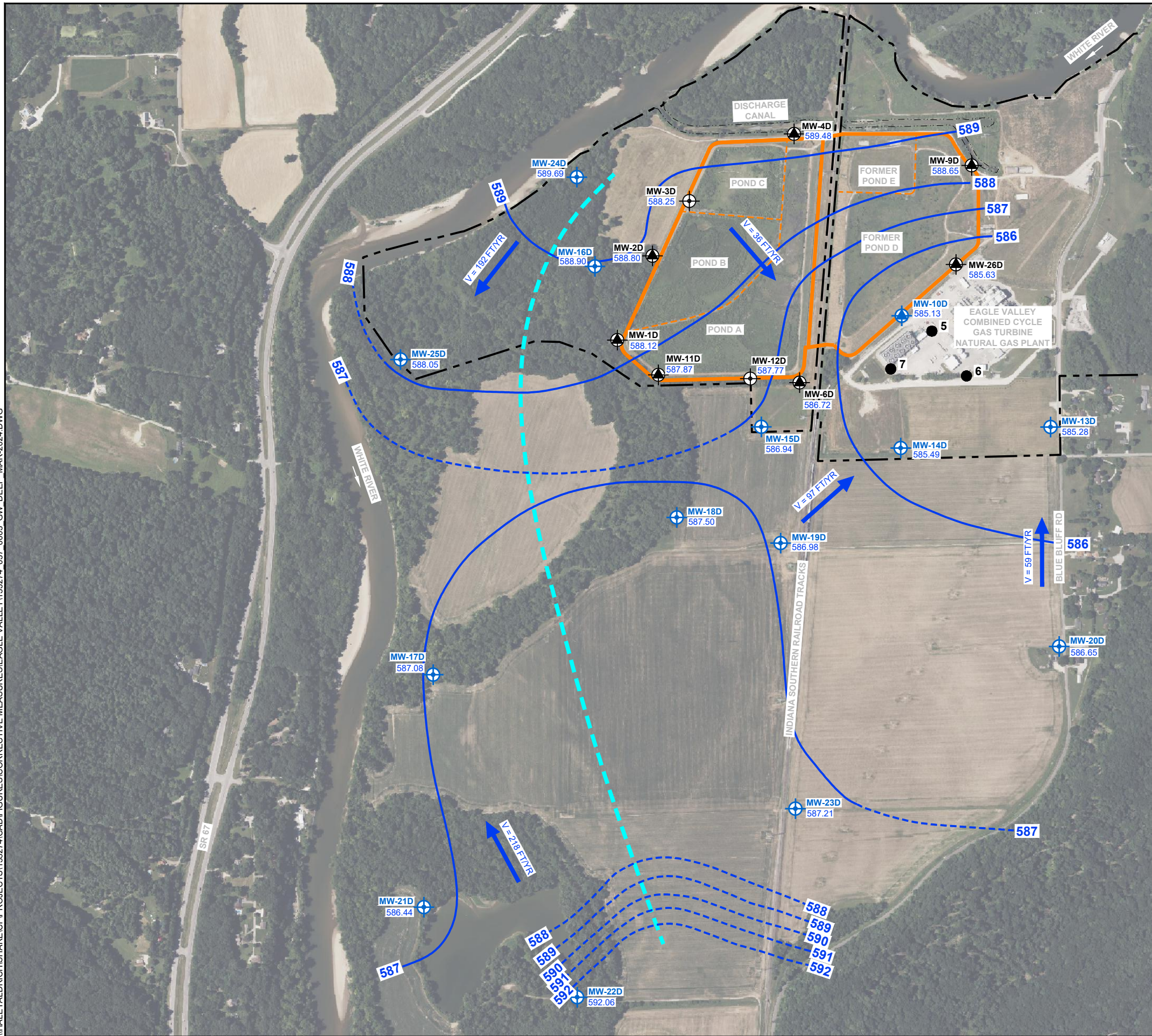
HALEY ALDRICH

EAGLE VALLEY GENERATING STATION
MARTINSVILLE, INDIANA

**GROUNDWATER FLOW MAP
INTERMEDIATE ZONE
(MARCH 29, 2024)**

SCALE: AS SHOWN
JANUARY 2025

FIGURE 4

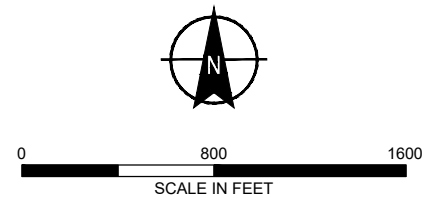


LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LIMITS OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH POND
- CCR MONITORING WELL
- NATURE AND EXTENT MONITORING WELL
- PRODUCTION WELL
- GROUNDWATER ELEVATION IN FEET
- GROUNDWATER FLOW DIRECTION
- 1-FOOT GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- GROUNDWATER FLOW BREAKLINE

NOTES

1. AERIAL IMAGE FROM MICROSOFT BING MAPS, 2022.
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 - D = DEEP WELL
3. CCR = COAL COMBUSTION RESIDUALS
4. GROUNDWATER ELEVATION MEASUREMENTS COLLECTED BY ATLAS TECHNICAL CONSULTANTS, INC ON MARCH 29, 2024.

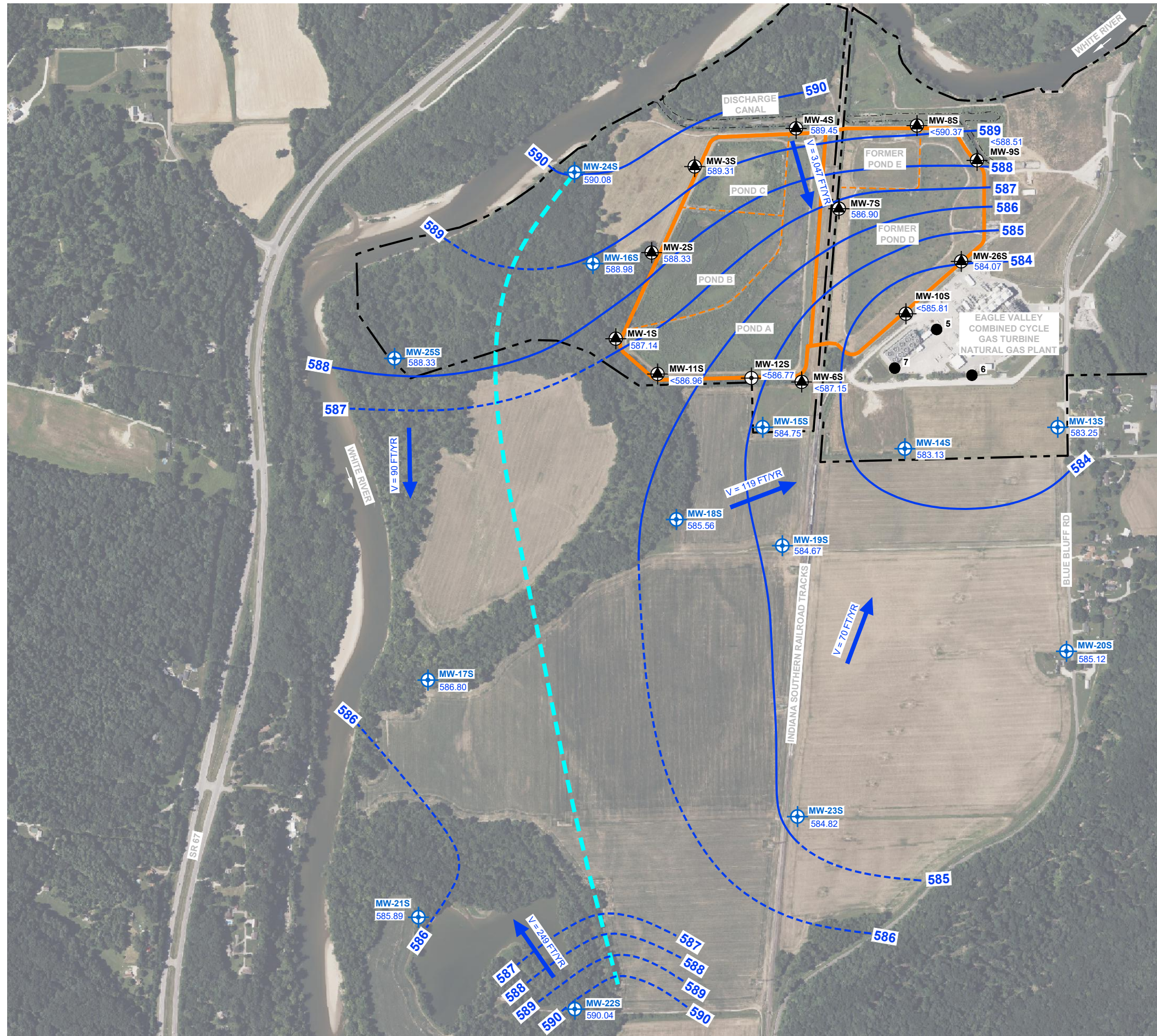


HALEY ALDRICH EAGLE VALLEY GENERATING STATION
 MARTINSVILLE, INDIANA

**GROUNDWATER FLOW MAP
 DEEP ZONE
 (MARCH 29, 2024)**

SCALE: AS SHOWN
 JNANUARY 2025

FIGURE 5

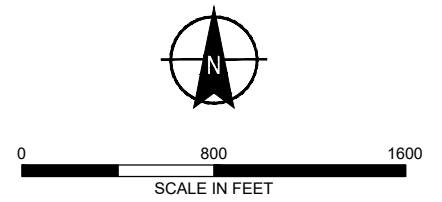


LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LIMITS OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH POND
- CCR MONITORING WELL
- NATURE AND EXTENT MONITORING WELL
- PRODUCTION WELL
- GROUNDWATER ELEVATION IN FEET
- GROUNDWATER FLOW DIRECTION
- 1-FOOT GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- GROUNDWATER FLOW BREAKLINE

NOTES

1. AERIAL IMAGE FROM MICROSOFT BING MAPS, 2022.
2. WELL DESIGNATION:
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 - D = DEEP WELL
3. CCR = COAL COMBUSTION RESIDUALS
4. "<" INDICATES GROUNDWATER ELEVATION BELOW THE TOP OF PUMP
5. GROUNDWATER ELEVATION MEASUREMENTS COLLECTED BY ATLAS TECHNICAL CONSULTANTS, INC ON SEPTEMBER 30, 2024.

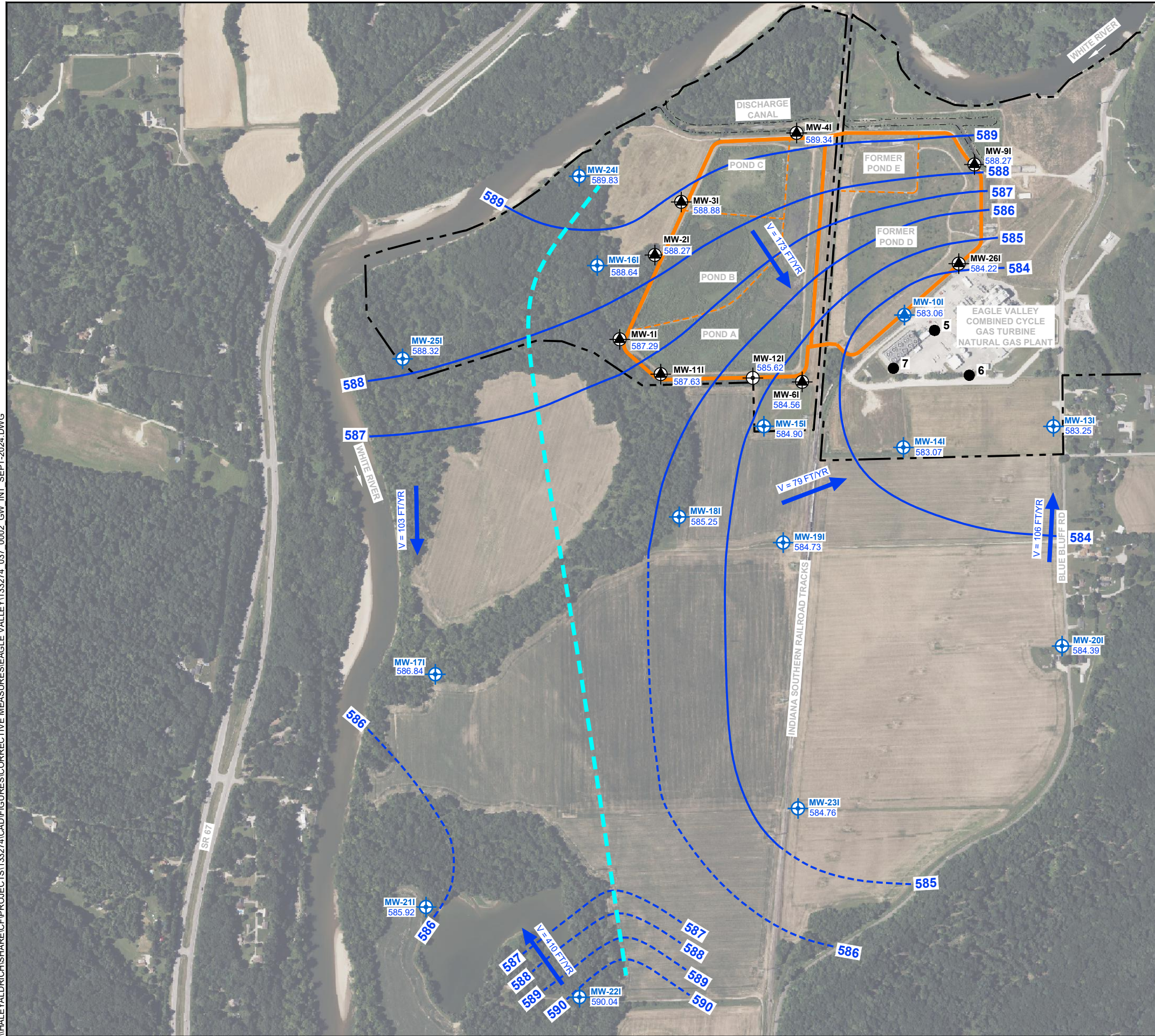


HALEY ALDRICH EAGLE VALLEY GENERATING STATION
 MARTINSVILLE, INDIANA

**GROUNDWATER FLOW MAP
 SHALLOW ZONE
 (SEPTEMBER 30, 2024)**

SCALE: AS SHOWN
 JANUARY 2025

FIGURE 6

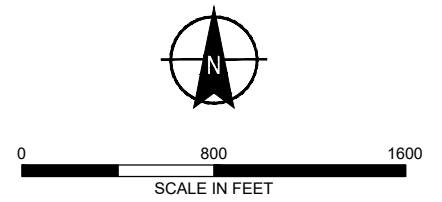


LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LIMITS OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH POND
- CCR MONITORING WELL
- NATURE AND EXTENT MONITORING WELL
- PRODUCTION WELL
- GROUNDWATER ELEVATION IN FEET
- 1-FOOT GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- 1-FOOT GROUNDWATER ELEVATION CONTOUR IN FEET
- GROUNDWATER FLOW BREAKLINE

NOTES

1. AERIAL IMAGE FROM MICROSOFT BING MAPS, 2022.
2. WELL DESIGNATION:
 - S = SHALLOW WELL
 - I = INTERMEDIATE WELL
 - D = DEEP WELL
3. CCR = COAL COMBUSTION RESIDUALS
4. GROUNDWATER ELEVATION MEASUREMENTS COLLECTED BY ATLAS TECHNICAL CONSULTANTS, INC ON SEPTEMBER 30, 2024.
5. MONITORING WELL MW-111 NOT USED TO DEVELOP GROUNDWATER ELEVATION CONTOURS.

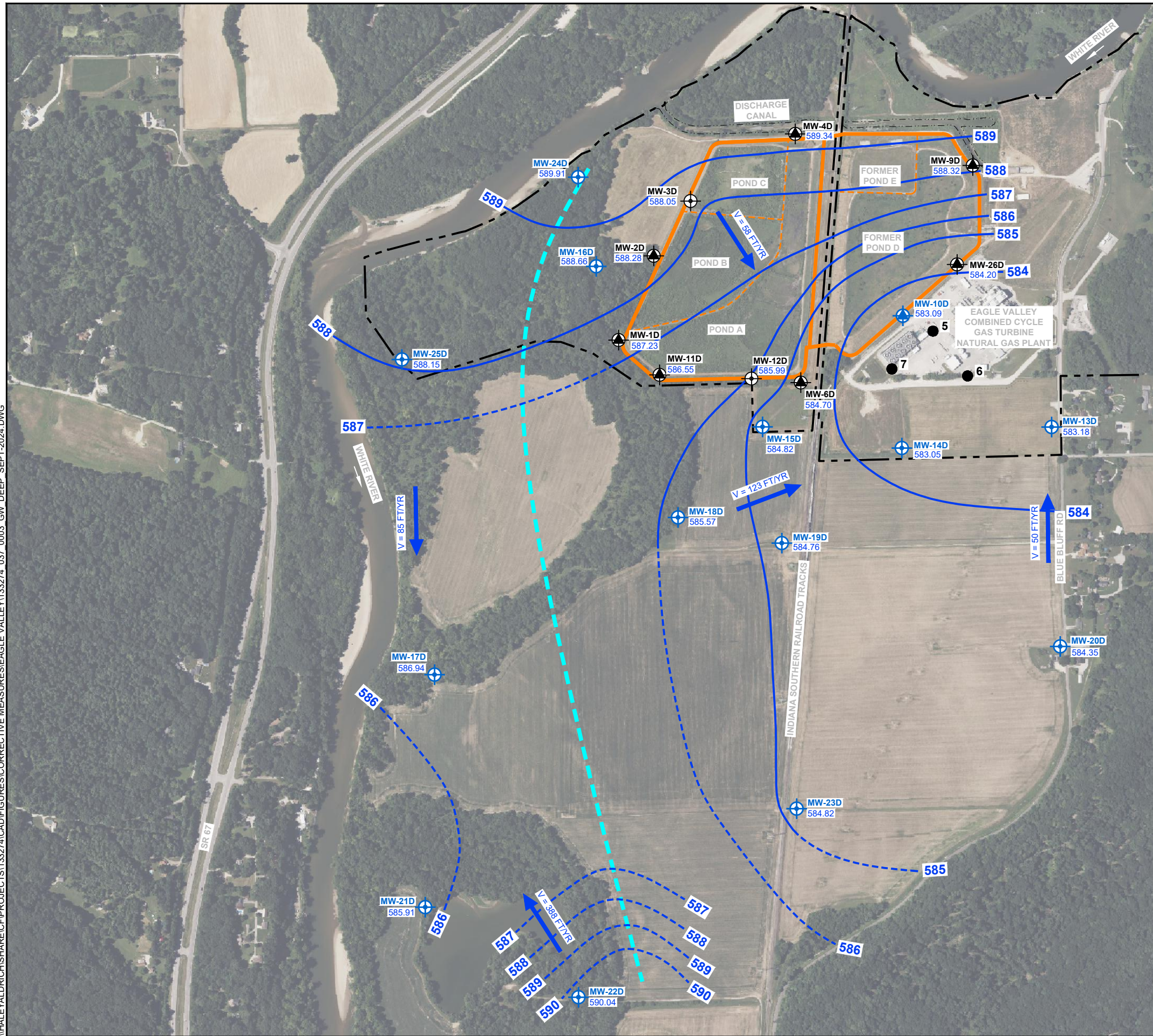


HALEY ALDRICH EAGLE VALLEY GENERATING STATION
 MARTINSVILLE, INDIANA

**GROUNDWATER FLOW MAP
 INTERMEDIATE ZONE
 (SEPTEMBER 30, 2024)**

SCALE: AS SHOWN
 JANUARY 2025

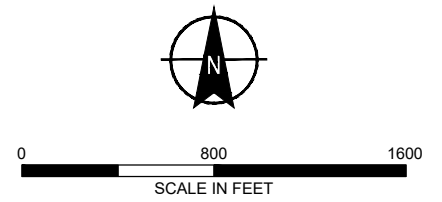
FIGURE 7



LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LIMITS OF ASH POND SYSTEM
- APPROXIMATE BOUNDARY OF ASH POND
- CCR MONITORING WELL
- NATURE AND EXTENT MONITORING WELL
- PRODUCTION WELL
- 587.37 GROUNDWATER ELEVATION IN FEET
- GROUNDWATER FLOW DIRECTION
- 585 1-FOOT GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- GROUNDWATER FLOW BREAKLINE

- NOTES**
1. AERIAL IMAGE FROM MICROSOFT BING MAPS, 2022.
 2. WELL DESIGNATION:
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 - I = INTERMEDIATE WELL
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 3. CCR = COAL COMBUSTION RESIDUALS
 4. GROUNDWATER ELEVATION MEASUREMENTS COLLECTED BY ATLAS TECHNICAL CONSULTANTS, INC ON SEPTEMBER 30, 2024.



HALEY ALDRICH EAGLE VALLEY GENERATING STATION
 MARTINSVILLE, INDIANA

**GROUNDWATER FLOW MAP
 DEEP ZONE
 (SEPTEMBER 30, 2024)**

SCALE: AS SHOWN
 JNAUARY 2025

FIGURE 8

Tables

Table 1:	Well Sampling Summary
Table 2:	Groundwater Elevation Data
Table 3:	Summary of Monitoring Results – October 2023
Table 4:	Summary of Monitoring Results – April 2024
Table 5:	Groundwater Protection Standards Summary – November 2023 and April 2024

Table 1
Well Sampling Summary
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Identification	Date Installed	Upgradient/Background, Downgradient, or Nature & Extent	Number of Samples	Sample Date	Detection or Assessment Monitoring Program
MW-1S	9/29/2015	Downgradient	2	4/9/2024	Assessment
				10/15/2024	
MW-1I	3/1/2016	Downgradient	2	4/9/2024	Assessment
				10/15/2024	
MW-1D	10/1/2015	Downgradient	2	4/9/2024	Assessment
				10/15/2024	
MW-2S	9/28/2015	Downgradient	2	4/5/2024	Assessment
				10/7/2024	
MW-2I	3/7/2016	Downgradient	2	4/5/2024	Assessment
				10/7/2024	
MW-2D	3/4/2016	Downgradient	2	4/5/2024	Assessment
				10/7/2024	
MW-3S	9/28/2015	Downgradient	2	4/5/2024	Assessment
				10/7/2024	
MW-3I	3/8/2016	Downgradient	2	4/4/2024	Assessment
				10/7/2024	
MW-3D	1/17/2023	Downgradient	2	4/4/2024	Assessment
				10/7/2024	
MW-4S	10/1/2015	Downgradient	2	4/9/2024	Assessment
				10/11/2024	
MW-4I	3/11/2016	Downgradient	2	4/9/2024	Assessment
				10/3/2024	
MW-4D	3/2/2016	Downgradient	2	4/9/2024	Assessment
				10/3/2024	
MW-6S	10/2/2015	Downgradient	2	4/4/2024	Assessment
				10/3/2024	
MW-6I	3/17/2016	Downgradient	2	4/4/2024	Assessment
				10/2/2024	
MW-6D	3/8/2016	Downgradient	2	4/4/2024	Assessment
				10/2/2024	
MW-7S	10/2/2015	Downgradient	2	4/10/2024	Assessment
				10/15/2024	
MW-8S	9/29/2015	Downgradient	2	4/4/2024	Assessment
				10/2/2024	
MW-9S	10/21/2015	Downgradient	2	4/4/2024	Assessment
				10/9/2024	
MW-9I	3/10/2016	Downgradient	2	4/4/2024	Assessment
				10/9/2024	

Table 1
Well Sampling Summary
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Identification	Date Installed	Upgradient/Background, Downgradient, or Nature & Extent	Number of Samples	Sample Date	Detection or Assessment Monitoring Program
MW-9D	3/10/2016	Downgradient	2	4/4/2024	Assessment
				10/9/2024	
MW-10S	10/3/2015	Downgradient	1	4/17/2024	Assessment
MW-10I	7/11/2019	Nature & Extent	2	4/3/2024	Assessment
				10/10/2024	
MW-10D	7/10/2019	Nature & Extent	2	4/3/2024	Assessment
				10/9/2024	
MW-11S	3/16/2016	Downgradient	2	4/9/2024	Assessment
				10/15/2024	
MW-11I	3/16/2016	Downgradient	2	4/9/2024	Assessment
				10/15/2024	
MW-11D	3/16/2016	Downgradient	2	4/9/2024	Assessment
				10/15/2024	
MW-12S	3/17/2016	Downgradient	2	4/5/2024	Assessment
				10/1/2024	
MW-12I	2/8/2023	Downgradient	2	4/16/2024	Assessment
				10/1/2024	
MW-12D	2/7/2023	Downgradient	2	4/16/2024	Assessment
				10/1/2024	
MW-13S	7/2/2019	Upgradient/Background	2	4/10/2024	Assessment
				10/4/2024	
MW-13I	7/1/2019	Upgradient/Background	2	4/10/2024	Assessment
				10/4/2024	
MW-13D	7/1/2019	Upgradient/Background	2	4/10/2024	Assessment
				10/4/2024	
MW-14S	7/12/2019	Nature & Extent	2	4/15/2024	Assessment
				10/4/2024	
MW-14I	7/9/2019	Nature & Extent	2	4/15/2024	Assessment
				10/4/2024	
MW-14D	7/3/2019	Nature & Extent	2	4/15/2024	Assessment
				10/4/2024	
MW-15S	7/17/2019	Nature & Extent	2	4/4/2024	Assessment
				10/1/2024	
MW-15I	7/17/2019	Nature & Extent	2	4/4/2024	Assessment
				10/2/2024	
MW-15D	7/16/2019	Nature & Extent	2	4/5/2024	Assessment
				10/1/2024	

Table 1
Well Sampling Summary
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Identification	Date Installed	Upgradient/Background, Downgradient, or Nature & Extent	Number of Samples	Sample Date	Detection or Assessment Monitoring Program
MW-16S	7/23/2019	Nature & Extent	2	4/9/2024	Assessment
				10/7/2024	
MW-16I	7/22/2019	Nature & Extent	2	4/5/2024	Assessment
				10/7/2024	
MW-16D	7/22/2019	Nature & Extent	2	4/5/2024	Assessment
				10/7/2024	
MW-17S	3/16/2021	Nature & Extent	2	4/22/2024	Assessment
				10/10/2024	
MW-17I	3/10/2021	Nature & Extent	2	4/22/2024	Assessment
				10/10/2024	
MW-17D	3/9/2021	Nature & Extent	2	4/22/2024	Assessment
				10/10/2024	
MW-18S	3/17/2021	Nature & Extent	2	4/4/2024	Assessment
				10/10/2024	
MW-18I	3/17/2021	Nature & Extent	2	4/4/2024	Assessment
				10/10/2024	
MW-18D	3/16/2021	Nature & Extent	2	4/4/2024	Assessment
				10/10/2024	
MW-19S	3/15/2021	Nature & Extent	2	4/4/2024	Assessment
				10/7/2024	
MW-19I	3/15/2021	Nature & Extent	2	4/4/2024	Assessment
				10/3/2024	
MW-19D	3/12/2021	Nature & Extent	2	4/4/2024	Assessment
				10/3/2024	
MW-20S	3/21/2022	Nature & Extent	1	4/15/2024	Assessment
MW-20I	3/21/2022	Nature & Extent	2	4/15/2024	Assessment
				10/11/2024	
MW-20D	3/18/2022	Nature & Extent	2	4/15/2024	Assessment
				10/11/2024	
MW-21S	8/3/2022	Nature & Extent	2	4/10/2024	Assessment
				10/7/2024	
MW-21I	8/3/2022	Nature & Extent	2	4/10/2024	Assessment
				10/7/2024	
MW-21D	8/2/2022	Nature & Extent	2	4/10/2024	Assessment
				10/7/2024	
MW-22S	4/21/2022	Nature & Extent	2	4/16/2024	Assessment
				10/14/2024	

Table 1
Well Sampling Summary
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Identification	Date Installed	Upgradient/Background, Downgradient, or Nature & Extent	Number of Samples	Sample Date	Detection or Assessment Monitoring Program
MW-22I	4/20/2022	Nature & Extent	2	4/16/2024	Assessment
				10/11/2024	
MW-22D	4/20/2022	Nature & Extent	2	4/16/2024	Assessment
				10/14/2024	
MW-23S	7/14/2022	Nature & Extent	2	4/10/2024	Assessment
				10/9/2024	
MW-23I	7/14/2022	Nature & Extent	2	4/10/2024	Assessment
				10/8/2024	
MW-23D	7/13/2022	Nature & Extent	2	4/16/2024	Assessment
				10/8/2024	
MW-24S	1/23/2023	Nature & Extent	2	4/15/2024	Assessment
				10/14/2024	
MW-24I	1/23/2023	Nature & Extent	2	4/15/2024	Assessment
				10/14/2024	
MW-24D	1/19/2023	Nature & Extent	2	4/15/2024	Assessment
				10/14/2024	
MW-25S	3/1/2023	Nature & Extent	2	4/23/2024	Assessment
				10/14/2024	
MW-25I	3/1/2023	Nature & Extent	2	4/23/2024	Assessment
				10/14/2024	
MW-25D	2/28/2023	Nature & Extent	2	4/23/2024	Assessment
				10/14/2024	
MW-26S	1/26/2023	Downgradient	2	4/3/2024	Assessment
				10/2/2024	
MW-26I	1/26/2023	Downgradient	2	4/3/2024	Assessment
				10/2/2024	
MW-26D	1/26/2023	Downgradient	2	4/3/2024	Assessment
				10/2/2024	

Notes

MW-10S and MW-20S were dry in October 2024 and were not sampled.

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
Atlas Project No. 170AES0001

Monitoring Well Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-1S	3/29/2024	612.93	24.71	588.22
	9/30/2024		25.79	587.14
MW-1I	3/29/2024	612.31	24.13	588.18
	9/30/2024		25.02	587.29
MW-1D	3/29/2024	612.91	24.79	588.12
	9/30/2024		25.68	587.23
MW-2S	3/29/2024	608.45	19.61	588.84
	9/30/2024		20.12	588.33
MW-2I	3/29/2024	608.93	20.14	588.79
	9/30/2024		20.66	588.27
MW-2D	3/29/2024	608.72	19.92	588.80
	9/30/2024		20.44	588.28
MW-3S	3/29/2024	610.80	21.43	589.37
	9/30/2024		21.49	589.31
MW-3I	3/29/2024	610.76	21.62	589.14
	9/30/2024		21.88	588.88
MW-3D	3/29/2024	610.28	22.03	588.25
	9/30/2024		22.23	588.05
MW-4S	3/29/2024	609.94	20.40	589.54
	9/30/2024		20.49	589.45
MW-4I	3/29/2024	614.66	25.18	589.48
	9/30/2024		25.32	589.34
MW-4D	3/29/2024	614.72	25.24	589.48
	9/30/2024		25.38	589.34
MW-6S	3/29/2024	605.99	Dry to pump (18.9)	<587.09
	9/30/2024		Dry to pump (18.84)	<587.15
MW-6I	3/29/2024	606.00	19.32	586.68
	9/30/2024		21.44	584.56
MW-6D	3/29/2024	604.85	18.13	586.72
	9/30/2024		20.15	584.70

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
Atlas Project No. 170AES0001

Monitoring Well Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-7S	3/29/2024	616.68	28.57	588.11
	9/30/2024		29.78	586.90
MW-8S	3/29/2024	616.67	Dry to pump (26.3)	<590.37
	9/30/2024		Dry to pump (26.3)	<590.37
MW-9S	3/29/2024	617.52	Dry to pump (28.7)	<588.82
	9/30/2024		Dry to pump (29.0)	<588.51
MW-9I	3/29/2024	617.06	28.48	588.58
	9/30/2024		28.79	588.27
MW-9D	3/29/2024	617.41	28.76	588.65
	9/30/2024		29.09	588.32
MW-10S	3/29/2024	613.70	Dry to pump (27.7)	<586.00
	9/30/2024		Dry to pump (27.89)	<585.81
MW-10I	3/29/2024	613.68	28.58	585.10
	9/30/2024		30.62	583.06
MW-10D	3/29/2024	613.54	28.41	585.13
	9/30/2024		30.45	583.09
MW-11S	3/29/2024	627.29	39.42	587.87
	9/30/2024		Dry to pump (40.33)	<586.96
MW-11I	3/29/2024	627.52	39.63	587.89
	9/30/2024		39.89	587.63
MW-11D	3/29/2024	627.56	39.69	587.87
	9/30/2024		41.01	586.55
MW-12S	3/29/2024	607.26	20.04	587.22
	9/30/2024		Dry to pump (20.49)	<586.77
MW-12I	3/29/2024	607.36	19.82	587.54
	9/30/2024		21.74	585.62
MW-12D	3/29/2024	607.75	19.98	587.77
	9/30/2024		21.76	585.99
MW-13S	3/29/2024	606.03	20.68	585.35
	9/30/2024		22.78	583.25

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
Atlas Project No. 170AES0001

Monitoring Well Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-13I	3/29/2024	606.21	20.86	585.35
	9/30/2024		22.96	583.25
MW-13D	3/29/2024	605.86	20.58	585.28
	9/30/2024		22.68	583.18
MW-14S	3/29/2024	607.39	21.85	585.54
	9/30/2024		24.26	583.13
MW-14I	3/29/2024	607.3397	21.90	585.44
	9/30/2024		24.27	583.07
MW-14D	3/29/2024	607.33	21.84	585.49
	9/30/2024		24.28	583.05
MW-15S	3/29/2024	607.50	20.68	586.82
	9/30/2024		22.75	584.75
MW-15I	3/29/2024	607.61	20.64	586.97
	9/30/2024		22.71	584.90
MW-15D	3/29/2024	607.51	20.57	586.94
	9/30/2024		22.69	584.82
MW-16S	3/29/2024	609.54	20.69	588.85
	9/30/2024		20.56	588.98
MW-16I	3/29/2024	609.53	20.64	588.89
	9/30/2024		20.89	588.64
MW-16D	3/29/2024	609.60	20.70	588.90
	9/30/2024		20.94	588.66
MW-17S	3/29/2024	602.20	15.24	586.96
	9/30/2024		15.40	586.80
MW-17I	3/29/2024	602.69	15.75	586.94
	9/30/2024		15.85	586.84
MW-17D	3/29/2024	602.47	15.39	587.08
	9/30/2024		15.53	586.94

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
Atlas Project No. 170AES0001

Monitoring Well Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-18S	3/29/2024	606.13	18.65	587.48
	9/30/2024		20.57	585.56
MW-18I	3/29/2024	605.82	18.60	587.22
	9/30/2024		20.57	585.25
MW-18D	3/29/2024	606.19	18.69	587.50
	9/30/2024		20.62	585.57
MW-19S	3/29/2024	602.85	15.90	586.95
	9/30/2024		18.18	584.67
MW-19I	3/29/2024	602.69	15.71	586.98
	9/30/2024		17.96	584.73
MW-19D	3/29/2024	602.67	15.69	586.98
	9/30/2024		17.91	584.76
MW-20S	3/29/2024	615.00	28.37	586.63
	9/30/2024		29.88	585.12
MW-20I	3/29/2024	614.63	27.95	586.68
	9/30/2024		30.24	584.39
MW-20D	3/29/2024	615.10	28.45	586.65
	9/30/2024		30.75	584.35
MW-21S	3/29/2024	601.34	14.88	586.46
	9/30/2024		15.45	585.89
MW-21I	3/29/2024	601.38	14.94	586.44
	9/30/2024		15.46	585.92
MW-21D	3/29/2024	601.33	14.89	586.44
	9/30/2024		15.42	585.91
MW-22S	3/29/2024	608.49	16.41	592.08
	9/30/2024		18.45	590.04
MW-22I	3/29/2024	608.37	16.31	592.06
	9/30/2024		18.33	590.04
MW-22D	3/29/2024	608.44	16.38	592.06
	9/30/2024		18.40	590.04
MW-23S	3/29/2024	600.74	13.55	587.19
	9/30/2024		15.92	584.82

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
Atlas Project No. 170AES0001

Monitoring Well Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-23I	3/29/2024	600.64	13.50	587.14
	9/30/2024		15.88	584.76
MW-23D	3/29/2024	600.72	13.51	587.21
	9/30/2024		15.90	584.82
MW-24S	3/29/2024	607.72	17.95	589.77
	9/30/2024		17.64	590.08
MW-24I	3/29/2024	607.54	18.02	589.52
	9/30/2024		17.71	589.83
MW-24D	3/29/2024	607.74	18.05	589.69
	9/30/2024		17.83	589.91
MW-25S	3/29/2024	602.88	14.65	588.23
	9/30/2024		14.55	588.33
MW-25I	3/29/2024	603.50	15.30	588.20
	9/30/2024		15.18	588.32
MW-25D	3/29/2024	603.37	15.32	588.05
	9/30/2024		15.22	588.15
MW-26S	3/29/2024	616.14	30.61	585.53
	9/30/2024		32.07	584.07
MW-26I	3/29/2024	616.33	30.67	585.66
	9/30/2024		32.11	584.22
MW-26D	3/29/2024	616.15	30.52	585.63
	9/30/2024		31.95	584.20

Table 3
Summary of Monitoring Results - October 2023
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-1S	MW-1I	MW-1D	MW-2S	MW-2I
Sample Date		10/11/2023	10/11/2023	10/11/2023	10/10/2023	10/10/2023
Pace Lab ID		50356191001	50356191002	50356191003	50356016003	50356016004
Static Water Elevation		<587.02	586.69	586.63	587.49	587.46
Field Parameters						
Temperature, Field	Degrees C	13.67	13.8	14.57	14.59	15.93
Dissolved Oxygen, Field	mg/L	0.36	0.6	0.16	0.21	0.18
Conductivity, Field	uS/cm	838.72	706.3	604.54	783.1	681.53
ORP, Field	mV	117.2	33.2	-109	179	-71.6
pH, Field	S.U.	7.09	7.62	7.7	7.12	7.65
Turbidity, Field	NTU	0.83	0.01	1.81	1.38	0.94
Appendix III Constituents						
Boron, Total	ug/L	856	452	417	550	204
Calcium, Total	ug/L	137000	79900	72400	124000	74200
Chloride	mg/L	<0.25	114	85.4	75.8	96.5
Fluoride	mg/L	<0.1	0.26	0.32	0.16	0.27
Sulfate	mg/L	104	89.7	70.8	70.5	88.5
Total Dissolved Solids	mg/L	708	557	463	605	527
pH at 25 Degrees C	Std. Units	7.3	7	7.2	7.5	7.3
Appendix IV Constituents						
Antimony, Total	ug/L	1.9	<1	<1	<1	<1
Arsenic, Total	ug/L	4.2	<1	2.7	5.9	<1
Barium, Total	ug/L	83.7	63.4	59.2	107	75.1
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	77.8	86.9	83.3	35.7	32.9
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	32.5	81.5	92.1	<10	76.7
Molybdenum, Dissolved	ug/L	32.3	88.1	96.8	<10	78.6
Radium-226	pCi/L	<0.31	1.06	0.727	0.279	0.928
Radium-228	pCi/L	0.737	0.596	0.798	0.472	0.621
Selenium, Total	ug/L	16	<1	<1	4.5	<1
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	<0.737	1.66	1.53	0.751	1.55
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	400	235	225	391	246
Alkalinity,Bicarbonate (CaCO3)	mg/L	400	235	225	391	246
Alkalinity,Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	<200	<200	<200	<200	<200
Dissolved Organic Carbon	mg/L	4.7	2.9	3.3	2.9	3.1
Iron, Total	ug/L	197	<100	1050	<100	124
Iron, Ferrous	mg/L	<0.2	<0.2	0.25	<0.2	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	34000	25000	21500	27000	22100
Manganese, Total	ug/L	15.7	281	374	33.4	174
Manganese, Dissolved	ug/L	<10	286	364	<10	120
Nitrogen, Nitrate	mg/L	0.79	<0.1	0.91	0.54	<0.1
Nitrogen, Nitrite	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phosphate as P04	mg/L	0.21	<0.15	<0.15	0.23	<0.15
Potassium, Total	ug/L	8190	8720	7590	5570	7940
Silica, Total	ug/L	15000	9810	10100	14100	11700
Sodium, Total	ug/L	71700	81900	66800	69400	85100
Sulfide	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	1.7	1.4	1.8	1.2	<4

Notes:

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Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 3
Summary of Monitoring Results - October 2023
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-2D	MW-3S	MW-3I	MW-3D	MW-4S
Sample Date		10/10/2023	10/9/2023	10/9/2023	10/10/2023	10/12/2023
Pace Lab ID		50356016005	50355871001	50355871002	50356016006	50356303001
Static Water Elevation		587.47	588.25	587.94	587.08	<588.87
Field Parameters						
Temperature, Field	Degrees C	15.75	16.65	18.08	18.92	20.28
Dissolved Oxygen, Field	mg/L	1.01	0.09	0.4	0.17	0.23
Conductivity, Field	uS/cm	582.42	650.6	538.69	621.61	581.65
ORP, Field	mV	-102.2	196.5	186.5	-128.4	232.6
pH, Field	S.U.	7.73	7.29	7.57	7.66	6.53
Turbidity, Field	NTU	1.45	1.33	1.39	7.06	0.39
Appendix III Constituents						
Boron, Total	ug/L	138	392	122	140	6090
Calcium, Total	ug/L	67500	101000	60700	94000	495000
Chloride	mg/L	74.5	119	106	64.1	463
Fluoride	mg/L	0.31	0.25	0.4	0.21	0.25
Sulfate	mg/L	65.9	135	76.4	42.6	1490
Total Dissolved Solids	mg/L	440	615	462	452	3640
pH at 25 Degrees C	Std. Units	7.6	7.5	7.6	7.7	7.4
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	4.7	<1	<1	5.9	4.7
Barium, Total	ug/L	61.8	98.8	55.1	83.7	93
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	34.7	<20	<20	<20	156
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	47.8	43.3	56.2	14.1	126
Molybdenum, Dissolved	ug/L	48.8	41.5	55.6	15.3	141
Radium-226	pCi/L	0.709	<0.198	<0.49	0.36	<0.0448
Radium-228	pCi/L	0.992	0.807	0.767	0.833	<0.152
Selenium, Total	ug/L	<1	<1	<1	<1	3.8
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	1.7	<0.807	1.26	1.19	<0.197
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	226	258	206	302	246
Alkalinity, Bicarbonate (CaCO3)	mg/L	226	258	206	302	246
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	<200	<200	<200	<200	<200
Dissolved Organic Carbon	mg/L	3	1.7	2.1	3.1	4.4
Iron, Total	ug/L	889	<100	<100	1590	<100
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	0.54	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	16300	30000	19600	29300	122000
Manganese, Total	ug/L	193	1040	34.6	232	491
Manganese, Dissolved	ug/L	185	650	34.1	221	535
Nitrogen, Nitrate	mg/L	<0.1	0.5	<0.1	<0.1	2.7
Nitrogen, Nitrite	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phosphate as P04	mg/L	0.16	<0.15	<0.15	<0.15	1.5
Potassium, Total	ug/L	7480	5400	5170	4980	23900
Silica, Total	ug/L	10900	12100	11800	12400	30400
Sodium, Total	ug/L	72300	79500	85400	43000	378000
Sulfide	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	<4	1.8	1.6	1.7	4.2

Notes:

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Table 3
Summary of Monitoring Results - October 2023
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-4I	MW-4D	MW-6S	MW-6I	MW-6D
Sample Date		10/6/2023	10/6/2023	10/2/2023	10/10/2023	10/10/2023
Pace Lab ID		50355754006	50355754007	-	50356016001	50356016002
Static Water Elevation		588.43	588.42	<587.15	584.55	584.60
Field Parameters						
Temperature, Field	Degrees C	15.49	15.42		14.91	14.73
Dissolved Oxygen, Field	mg/L	0.15	0.08		0.09	1.08
Conductivity, Field	uS/cm	254.76	578.97		272.97	291.09
ORP, Field	mV	-82.1	-135		42.7	-33.1
pH, Field	S.U.	7.16	7.54		6.97	7.15
Turbidity, Field	NTU	32.86	16.02		0	0.69
Appendix III Constituents						
Boron, Total	ug/L	124	105		2020	1840
Calcium, Total	ug/L	73600	82500		117000	76800
Chloride	mg/L	92.1	117		73.6	81.7
Fluoride	mg/L	0.36	0.27		0.29	0.17
Sulfate	mg/L	62.7	61.5		172	76.1
Total Dissolved Solids	mg/L	462	504		677	497
pH at 25 Degrees C	Std. Units	7.3	7.5		7.4	7.6
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1		<1	<1
Arsenic, Total	ug/L	1.3	5		<1	<1
Barium, Total	ug/L	65.5	65.3		76.4	62
Beryllium, Total	ug/L	#N/A	#N/A		#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A		#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A		#N/A	#N/A
Cobalt, Total	ug/L	<1	<1		<1	<1
Lead, Total	ug/L	#N/A	#N/A		#N/A	#N/A
Lithium, Total	ug/L	<20	<20		100	71.1
Mercury	ug/L	#N/A	#N/A		#N/A	#N/A
Molybdenum, Total	ug/L	11.1	11.3	DRY	160	203
Molybdenum, Dissolved	ug/L	12	10.6		165	204
Radium-226	pCi/L	0.532	<0.276		1.03	<0.128
Radium-228	pCi/L	<0.25	0.937		0.682	0.749
Selenium, Total	ug/L	<1	<1		<1	<1
Thallium, Total	ug/L	#N/A	#N/A		#N/A	#N/A
Total Radium	pCi/L	0.782	1.21		1.71	0.877
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	248	238		302	223
Alkalinity,Bicarbonate (CaCO3)	mg/L	248	238		302	223
Alkalinity,Carbonate (CaCO3)	mg/L	<10	<10		<10	<10
Aluminum, Total	ug/L	<200	<200		<200	<200
Dissolved Organic Carbon	mg/L	2.2	1.8		2.2	1.4
Iron, Total	ug/L	568	1310		<100	113
Iron, Ferrous	mg/L	<0.2	0.28		<0.2	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A		#N/A	#N/A
Magnesium, Total	ug/L	23000	26300		24500	14500
Manganese, Total	ug/L	142	217		78.4	332
Manganese, Dissolved	ug/L	150	216		70.8	298
Nitrogen, Nitrate	mg/L	<0.1	<0.1		<0.1	<0.1
Nitrogen, Nitrite	mg/L	<0.1	<0.1		<0.1	<0.1
Phosphate as P04	mg/L	<0.15	<0.15		<0.15	<0.15
Potassium, Total	ug/L	3610	3490		14100	5730
Silica, Total	ug/L	10700	11400		10900	11600
Sodium, Total	ug/L	71600	69200		81300	76600
Sulfide	mg/L	<0.1	<0.1		<0.1	<0.1
Total Organic Carbon	mg/L	1.6	1.8		1.6	1.1

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Table 3
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AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
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Well ID	Units	MW-7S	MW-8S	MW-9S	MW-9I	MW-9D
Sample Date		10/9/2023	10/2/2023	10/6/2023	10/9/2023	10/9/2023
Pace Lab ID		50355871003	-	50355754010	50355871004	50355871005
Static Water Elevation		586.58	<590.37	<588.51	587.31	587.31
Field Parameters						
Temperature, Field	Degrees C	17.33		22.47	15.52	14.87
Dissolved Oxygen, Field	mg/L	0.65		0.33	0.1	0.09
Conductivity, Field	uS/cm	288.46		2,731.1	745.12	646.31
ORP, Field	mV	222		22.7	46.5	51.4
pH, Field	S.U.	6.53		7.8	7.84	7.36
Turbidity, Field	NTU	11.37		0.54	0	0
Appendix III Constituents						
Boron, Total	ug/L	2660		5800	673	<100
Calcium, Total	ug/L	268000		504000	101000	118000
Chloride	mg/L	190		567	145	92.8
Fluoride	mg/L	<0.1		0.61	0.22	<0.1
Sulfate	mg/L	563		1770	179	86.5
Total Dissolved Solids	mg/L	1430		3500	684	583
pH at 25 Degrees C	Std. Units	7.4		7.3	7.1	7
Appendix IV Constituents						
Antimony, Total	ug/L	2.9		<1	<1	<1
Arsenic, Total	ug/L	<1		13.8	<1	<1
Barium, Total	ug/L	47.7		157	41.8	120
Beryllium, Total	ug/L	#N/A		#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A		#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A		#N/A	#N/A	#N/A
Cobalt, Total	ug/L	1.3		<1	<1	<1
Lead, Total	ug/L	#N/A		#N/A	#N/A	#N/A
Lithium, Total	ug/L	54.4		166	38.2	<20
Mercury	ug/L	#N/A		#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	28	DRY	323	86.9	<10
Molybdenum, Dissolved	ug/L	25.8		306	84	<10
Radium-226	pCi/L	<0.129		<0.203	<0.123	0.549
Radium-228	pCi/L	0.949		<0.196	0.419	<0.419
Selenium, Total	ug/L	26.8		4.8	<1	<1
Thallium, Total	ug/L	#N/A		#N/A	#N/A	#N/A
Total Radium	pCi/L	1.08		<0.399	<0.542	0.968
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	303		232	219	324
Alkalinity,Bicarbonate (CaCO3)	mg/L	303		232	219	324
Alkalinity,Carbonate (CaCO3)	mg/L	<10		<10	<10	<10
Aluminum, Total	ug/L	275		<200	<200	<200
Dissolved Organic Carbon	mg/L	1		<4	2.3	2.3
Iron, Total	ug/L	594		<100	<100	112
Iron, Ferrous	mg/L	<0.2		<0.2	<0.2	<0.2
Iron, Dissolved	ug/L	#N/A		#N/A	#N/A	#N/A
Magnesium, Total	ug/L	58500		117000	27600	30200
Manganese, Total	ug/L	616		366	257	242
Manganese, Dissolved	ug/L	434		362	266	252
Nitrogen, Nitrate	mg/L	2.1		4.6	0.21	0.36
Nitrogen, Nitrite	mg/L	<0.1		<0.1	<0.1	<0.1
Phosphate as P04	mg/L	0.17		2.5	<0.15	<0.15
Potassium, Total	ug/L	8880		26800	6590	2630
Silica, Total	ug/L	15900		48200	8650	13300
Sodium, Total	ug/L	91100		384000	97500	57500
Sulfide	mg/L	<0.1		<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	2.1		<4	2.3	1.8

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Table 3
Summary of Monitoring Results - October 2023
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-10S	MW-10I	MW-10D	MW-11S	MW-11I
Sample Date		10/2/2023	10/10/2023	10/10/2023	10/2/2023	10/9/2023
Pace Lab ID		-	50356001001	50356001002	-	50355871006
Static Water Elevation		<585.81	582.93	582.95	<586.96	586.20
Field Parameters						
Temperature, Field	Degrees C		16.18	15.4		14.46
Dissolved Oxygen, Field	mg/L		2.83	0.08		0.24
Conductivity, Field	uS/cm		1,186.4	967.93		1,180.2
ORP, Field	mV		251.3	252.8		-125.5
pH, Field	S.U.		7.29	7.63		6.98
Turbidity, Field	NTU		0.41	7.78		1.78
Appendix III Constituents						
Boron, Total	ug/L		1340	338		812
Calcium, Total	ug/L		216000	170000		82800
Chloride	mg/L		178	161		114
Fluoride	mg/L		0.23	0.14		0.38
Sulfate	mg/L		441	351		122
Total Dissolved Solids	mg/L		1230	996		570
pH at 25 Degrees C	Std. Units		7.3	7.4		7.3
Appendix IV Constituents						
Antimony, Total	ug/L		<1	<1		<1
Arsenic, Total	ug/L		<1	<1		1.4
Barium, Total	ug/L		64.7	124		58.8
Beryllium, Total	ug/L		#N/A	#N/A		#N/A
Cadmium, Total	ug/L		#N/A	#N/A		#N/A
Chromium, Total	ug/L		#N/A	#N/A		#N/A
Cobalt, Total	ug/L		<1	<1		<1
Lead, Total	ug/L		#N/A	#N/A		#N/A
Lithium, Total	ug/L		58.9	54.7		107
Mercury	ug/L		#N/A	#N/A		#N/A
Molybdenum, Total	ug/L	DRY	118	83.7	DRY	122
Molybdenum, Dissolved	ug/L		123	85.8		121
Radium-226	pCi/L		0.983	<0.0637		1.39
Radium-228	pCi/L		0.889	1.24		1.05
Selenium, Total	ug/L		<1	<1		<1
Thallium, Total	ug/L		#N/A	#N/A		#N/A
Total Radium	pCi/L		1.87	1.3		2.44
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L		257	243		222
Alkalinity,Bicarbonate (CaCO3)	mg/L		257	243		222
Alkalinity,Carbonate (CaCO3)	mg/L		<10	<10		<10
Aluminum, Total	ug/L		<200	<200		<200
Dissolved Organic Carbon	mg/L		2.2	2.2		2.2
Iron, Total	ug/L		<100	278		349
Iron, Ferrous	mg/L		<0.2	<0.2		<0.2
Iron, Dissolved	ug/L		#N/A	#N/A		#N/A
Magnesium, Total	ug/L		43900	40200		26900
Manganese, Total	ug/L		84.2	197		284
Manganese, Dissolved	ug/L		89.6	213		291
Nitrogen, Nitrate	mg/L		0.1	<0.1		<0.1
Nitrogen, Nitrite	mg/L		<0.1	<0.1		<0.1
Phosphate as P04	mg/L		<0.15	<0.15		0.18
Potassium, Total	ug/L		10600	8380		8560
Silica, Total	ug/L		10400	12600		10400
Sodium, Total	ug/L		131000	99600		77000
Sulfide	mg/L		<0.1	<0.1		<0.1
Total Organic Carbon	mg/L		2.1	2.0		1.3

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Table 3
Summary of Monitoring Results - October 2023
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-11D	MW-12S	MW-12I	MW-12D	MW-13S
Sample Date		10/9/2023	10/11/2023	10/11/2023	10/17/2023	10/11/2023
Pace Lab ID		50355871007	50356191004	50356191005	50356608001	50356191006
Static Water Elevation		586.22	<586.77	585.50	585.71	583.30
Field Parameters						
Temperature, Field	Degrees C	22.79	13.96	14.73	13.77	13.55
Dissolved Oxygen, Field	mg/L	0.09	4.38	0.32	0.05	7.79
Conductivity, Field	uS/cm	1,034.9	785.86	782.4	727.74	1,056.9
ORP, Field	mV	-204.5	318.1	-21.5	-42.9	135.8
pH, Field	S.U.	7.25	7.46	7.44	6.59	6.99
Turbidity, Field	NTU	52.67	5.57	3.65	5.05	238.18
Appendix III Constituents						
Boron, Total	ug/L	917	6950	2450	1400	<100
Calcium, Total	ug/L	74500	135000	139000	78300	105000
Chloride	mg/L	90.8	38.4	80.5	79.4	32
Fluoride	mg/L	0.28	0.2	0.22	0.27	<0.1
Sulfate	mg/L	75.5	175	198	74.2	15.8
Total Dissolved Solids	mg/L	468	760	756	469	475
pH at 25 Degrees C	Std. Units	7.4	7	7.2	7.3	7.3
Appendix IV Constituents						
Antimony, Total	ug/L	<1	1.8	<1	<1	<1
Arsenic, Total	ug/L	4.9	<1	<1	2.9	<1
Barium, Total	ug/L	62.1	136	84.7	54.1	54.1
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	83.2	129	120	75	<20
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	133	15	157	199	<10
Molybdenum, Dissolved	ug/L	130	16	160	196	<10
Radium-226	pCi/L	<0.358	<0.0518	1.6	<0.48	<0.264
Radium-228	pCi/L	0.498	0.6	1.19	1.08	0.697
Selenium, Total	ug/L	<1	23.7	<1	<1	<1
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	0.856	<0.6	2.79	1.08	0.961
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	221	432	342	219	380
Alkalinity, Bicarbonate (CaCO3)	mg/L	221	432	342	210	380
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	666	<200	<200	<200	<200
Dissolved Organic Carbon	mg/L	2	2.2	2.7	1.8	2.8
Iron, Total	ug/L	2050	<100	188	452	<100
Iron, Ferrous	mg/L	0.48	<0.2	<0.2	0.26	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	21200	27600	32100	14500	26800
Manganese, Total	ug/L	285	<10	323	282	<10
Manganese, Dissolved	ug/L	260	<10	325	294	<10
Nitrogen, Nitrate	mg/L	<0.1	3.8	<0.1	<0.1	7.9
Nitrogen, Nitrite	mg/L	<0.1	<0.1	<0.1	<0.1	<0.5
Phosphate as P04	mg/L	0.42	<0.15	<0.15	<0.15	0.15
Potassium, Total	ug/L	7150	13300	12400	5570	3740
Silica, Total	ug/L	12900	11800	11200	11800	15100
Sodium, Total	ug/L	71100	92700	82400	73200	50700
Sulfide	mg/L	0.18	<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	2.1	2.3	2.1	1.4	1.4

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Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-13I	MW-13D	MW-14S	MW-14I	MW-14D
Sample Date		10/11/2023	10/11/2023	10/10/2023	10/10/2023	10/10/2023
Pace Lab ID		50356191009	50356191010	50355989001	50355989002	50355989003
Static Water Elevation		583.29	583.23	583.22	583.14	583.14
Field Parameters						
Temperature, Field	Degrees C	13.74	16.3	13.13	14.19	18.93
Dissolved Oxygen, Field	mg/L	5.34	2.51	8.84	1.23	1.52
Conductivity, Field	uS/cm	801.89	532.75	779.95	1,327.4	1,580.4
ORP, Field	mV	122	304.6	108.1	95.1	97.4
pH, Field	S.U.	7.17	6.22	6.98	7.14	7
Turbidity, Field	NTU	0	7.33	0.23	9.53	16.89
Appendix III Constituents						
Boron, Total	ug/L	<100	<100	211	3880	2950
Calcium, Total	ug/L	76200	71000	96200	127000	155000
Chloride	mg/L	32.8	25.4	2.9	76.9	84.4
Fluoride	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/L	18.4	25.6	14.9	190	275
Total Dissolved Solids	mg/L	354	331	358	696	856
pH at 25 Degrees C	Std. Units	7.4	7.5	7.4	7.2	7.3
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	<1	<1	<1	<1
Barium, Total	ug/L	35.4	57.4	27.8	50.9	23.6
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	<20	<20	<20	65.2	23.2
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	<10	<10	42.1	85.7	19.7
Molybdenum, Dissolved	ug/L	<10	<10	46.1	89.5	19.9
Radium-226	pCi/L	0.212	<0.0448	0.237	0.478	<0.199
Radium-228	pCi/L	0.523	1.37	<0.144	<0.402	0.702
Selenium, Total	ug/L	<1	<1	<1	<1	<1
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	0.735	1.41	<0.381	0.88	0.901
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	266	257	296	271	283
Alkalinity,Bicarbonate (CaCO3)	mg/L	266	257	296	271	283
Alkalinity,Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	<200	<200	<200	<200	<200
Dissolved Organic Carbon	mg/L	1.6	1.5	2.2	1.5	3.1
Iron, Total	ug/L	<100	<100	<100	<100	<100
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	21200	20400	24600	29900	33300
Manganese, Total	ug/L	<10	11.8	<10	<10	106
Manganese, Dissolved	ug/L	<10	13.5	<10	<10	118
Nitrogen, Nitrate	mg/L	4.2	0.78	9.9	0.35	2.2
Nitrogen, Nitrite	mg/L	<0.1	<0.1	<0.5	<0.1	<0.1
Phosphate as P04	mg/L	<0.15	0.16	1	0.15	<0.15
Potassium, Total	ug/L	2220	1760	1660	4120	3700
Silica, Total	ug/L	16000	14900	13100	14600	15200
Sodium, Total	ug/L	30000	30000	5620	67900	81800
Sulfide	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	1.5	1.7	1.7	1.6	1.9

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Well ID	Units	MW-15S	MW-15I	MW-15D	MW-16S	MW-16I
Sample Date		10/12/2023	10/12/2023	10/12/2023	10/12/2023	10/12/2023
Pace Lab ID		50356305001	50356305002	50356305003	50356305004	50356305005
Static Water Elevation		584.67	584.83	584.76	587.62	587.63
Field Parameters						
Temperature, Field	Degrees C	15.22	15.49	16.01	14.85	15.68
Dissolved Oxygen, Field	mg/L	7.85	0.42	0.09	0.11	0.42
Conductivity, Field	uS/cm	477.31	697.27	695.33	694.83	608.03
ORP, Field	mV	292.9	32.5	-34.9	195.4	163.8
pH, Field	S.U.	7.36	7.38	6.91	7.43	7.56
Turbidity, Field	NTU	2.19	56.08	0	8.92	0.73
Appendix III Constituents						
Boron, Total	ug/L	1190	5980	4590	253	185
Calcium, Total	ug/L	106000	97800	94700	82700	72400
Chloride	mg/L	22.1	62.9	124	110	96.2
Fluoride	mg/L	0.31	0.35	0.21	0.3	0.32
Sulfate	mg/L	26.3	223	182	94.3	73.7
Total Dissolved Solids	mg/L	411	686	645	552	463
pH at 25 Degrees C	Std. Units	7.6	7.6	7.7	7.7	7.1
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	<1	<1	<1	<1
Barium, Total	ug/L	65.4	60	49.6	83.7	65.3
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	<1	<1	1	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	52.5	103	77.4	43.8	54.7
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	67.7	281	175	67.9	93.5
Molybdenum, Dissolved	ug/L	72.6	320	191	60.8	95
Radium-226	pCi/L	<0.135	0.433	<0.191	0.44	<0.245
Radium-228	pCi/L	0.639	0.981	0.894	<0.258	0.99
Selenium, Total	ug/L	1.5	<1	<1	<1	<1
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	0.774	1.41	1.09	0.698	1.24
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	326	263	187	254	211
Alkalinity,Bicarbonate (CaCO3)	mg/L	326	263	187	254	211
Alkalinity,Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	<200	<200	<200	<200	<200
Dissolved Organic Carbon	mg/L	3.8	1.9	1.7	2	3.2
Iron, Total	ug/L	<100	<100	185	135	<100
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	26600	22400	17800	21900	22700
Manganese, Total	ug/L	<10	67.3	386	1760	93.8
Manganese, Dissolved	ug/L	<10	75.8	417	402	93.6
Nitrogen, Nitrate	mg/L	6.6	<0.1	<0.1	0.32	<0.1
Nitrogen, Nitrite	mg/L	<0.5	<0.1	<0.1	<0.1	<0.1
Phosphate as P04	mg/L	0.25	<0.15	<0.15	<0.15	<0.15
Potassium, Total	ug/L	5530	10200	6370	7290	7250
Silica, Total	ug/L	13000	11200	11700	12000	10900
Sodium, Total	ug/L	17100	107000	96900	89500	64100
Sulfide	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	1.7	1.4	1.8	1.5	1.6

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- mV: millivolt
- Std. Units: standard units
- mg/L: milligram per liter
- ug/L: microgram per liter
- pCi/L: picoCurie per liter

Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 3
Summary of Monitoring Results - October 2023
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-16D	MW-17S	MW-17I	MW-17D	MW-18S
Sample Date		10/13/2023	10/3/2023	10/3/2023	10/3/2023	10/3/2023
Pace Lab ID		50356477001	50355270001	50355270002	50355270003	50355270004
Static Water Elevation		587.66	585.40	585.64	585.76	585.37
Field Parameters						
Temperature, Field	Degrees C	15.44	12.11	12.53	13.31	11.5
Dissolved Oxygen, Field	mg/L	0.19	0	0.06	0.06	0.16
Conductivity, Field	uS/cm	548.9	591.6	581.12	678.36	431.19
ORP, Field	mV	-133	-9.1	9.8	-72.1	22.4
pH, Field	S.U.	7.77	7.01	7.03	7.02	7.25
Turbidity, Field	NTU	0	0	0.24	36.02	1.91
Appendix III Constituents						
Boron, Total	ug/L	122	286	386	2860	<100
Calcium, Total	ug/L	80700	101000	85800	92100	60600
Chloride	mg/L	91.1	37.2	42.8	58.7	36.1
Fluoride	mg/L	0.33	0.13	<0.1	<0.1	0.19
Sulfate	mg/L	70.8	27.6	30.8	91.9	26.2
Total Dissolved Solids	mg/L	494	410	385	481	273
pH at 25 Degrees C	Std. Units	7	6.9	7.1	7.1	7.3
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	4.5	<1	<1	6	<1
Barium, Total	ug/L	61	106	50.9	57	25.8
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	32.7	<20	<20	40.2	<20
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	42	14.7	<10	28.7	22.8
Molybdenum, Dissolved	ug/L	44.8	13.1	<10	25.5	21.7
Radium-226	pCi/L	0.771	<0.068	0.457	1.02	<0.307
Radium-228	pCi/L	0.863	<0.227	0.429	1.02	0.493
Selenium, Total	ug/L	<1	<1	<1	<1	<1
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	1.63	<0.227	0.886	2.04	0.8
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	214	305	263	248	177
Alkalinity, Bicarbonate (CaCO3)	mg/L	214	305	263	248	177
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	<200	<200	<200	<200	<200
Dissolved Organic Carbon	mg/L	1.4	1.4	1.1	<1	1.8
Iron, Total	ug/L	1080	<100	<100	2600	<100
Iron, Ferrous	mg/L	0.37	<0.2	<0.2	<0.2	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	20100	22800	22100	25100	13600
Manganese, Total	ug/L	192	<10	<10	345	<10
Manganese, Dissolved	ug/L	194	<10	<10	265	<10
Nitrogen, Nitrate	mg/L	<0.1	2.1	0.95	<0.1	0.65
Nitrogen, Nitrite	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phosphate as P04	mg/L	<0.15	<0.15	<0.15	0.24	<0.15
Potassium, Total	ug/L	7880	3500	2320	3290	2090
Silica, Total	ug/L	10900	11700	10900	13400	7180
Sodium, Total	ug/L	62100	28700	31700	52400	26000
Sulfide	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	1.7	2.0	1.4	1.1	1.5

Notes:

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Table 3
Summary of Monitoring Results - October 2023
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-18I	MW-18D	MW-19S	MW-19I	MW-19D
Sample Date		10/3/2023	10/3/2023	10/4/2023	10/4/2023	10/4/2023
Pace Lab ID		50355270005	50355270006	50355432001	50355432002	50355432003
Static Water Elevation		585.09	585.39	584.64	584.64	584.70
Field Parameters						
Temperature, Field	Degrees C	11.78	13.6	14.49	14.04	14.7
Dissolved Oxygen, Field	mg/L	3.92	0.09	8.03	0.04	0.05
Conductivity, Field	uS/cm	447.38	690.97	552.96	806.63	945.48
ORP, Field	mV	56.8	-60.9	111	-6.5	-47.8
pH, Field	S.U.	7.21	7.11	6.87	7.15	6.78
Turbidity, Field	NTU	1.61	65.7	4.68	0	0.32
Appendix III Constituents						
Boron, Total	ug/L	145	2170	208	4730	5670
Calcium, Total	ug/L	65000	85900	114000	105000	118000
Chloride	mg/L	37.1	78	3.6	90.2	134
Fluoride	mg/L	0.13	0.11	<0.1	<0.1	<0.1
Sulfate	mg/L	26.9	69	13.6	146	209
Total Dissolved Solids	mg/L	289	474	400	626	752
pH at 25 Degrees C	Std. Units	7.3	7.3	7.6	7.9	7.8
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	2	3.6	<1	<1
Barium, Total	ug/L	53.9	67.8	40.1	54.4	45.8
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	<1	2.5	<1	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	23.1	87.7	<20	88.7	34.2
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	81.5	168	<10	134	22.7
Molybdenum, Dissolved	ug/L	75.2	156	<10	133	22.7
Radium-226	pCi/L	<0	<0	<0.321	1.09	0.799
Radium-228	pCi/L	<0.288	0.969	0.952	1.04	0.892
Selenium, Total	ug/L	2.9	<1	1	<1	<1
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	<0.288	<0.969	1.27	2.13	1.69
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	183	225	568	280	244
Alkalinity,Bicarbonate (CaCO3)	mg/L	183	225	568	280	244
Alkalinity,Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	<200	215	859	<200	<200
Dissolved Organic Carbon	mg/L	1.3	1.4	1.7	1.7	1.5
Iron, Total	ug/L	<100	1300	2550	<100	104
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	16100	17200	29600	22900	27700
Manganese, Total	ug/L	31.3	402	333	78	370
Manganese, Dissolved	ug/L	<10	299	<10	76.8	371
Nitrogen, Nitrate	mg/L	1.5	0.84	8.2	0.1	<0.1
Nitrogen, Nitrite	mg/L	<0.1	<0.1	<0.5	<0.1	<0.1
Phosphate as P04	mg/L	0.2	0.17	<0.15	<0.15	<0.15
Potassium, Total	ug/L	3820	6490	2250	6660	4090
Silica, Total	ug/L	9730	12900	14600	13700	14100
Sodium, Total	ug/L	24800	58300	9850	83300	103000
Sulfide	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	1.1	<1	<1	<1	<1

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Table 3
Summary of Monitoring Results - October 2023
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-20S	MW-20I	MW-20D	MW-21S	MW-21I
Sample Date		10/2/2023	10/6/2023	10/6/2023	10/4/2023	10/4/2023
Pace Lab ID		-	50355754001	50355754002	50355432004	50355432005
Static Water Elevation		585.13	584.46	584.40	584.78	584.83
Field Parameters						
Temperature, Field	Degrees C		13.22	12.81	21.89	17.13
Dissolved Oxygen, Field	mg/L		9.42	3.11	0.4	1.3
Conductivity, Field	uS/cm		609.97	533.54	312.28	237.61
ORP, Field	mV		364.9	354.4	-31.6	53.5
pH, Field	S.U.		6.75	6.73	7.04	6.99
Turbidity, Field	NTU		75.3	33.74	0.35	2.67
Appendix III Constituents						
Boron, Total	ug/L		<100	<100	<100	<100
Calcium, Total	ug/L		102000	89100	63000	93000
Chloride	mg/L		34.2	26.7	52	22.4
Fluoride	mg/L		<0.1	<0.1	0.16	<0.1
Sulfate	mg/L		24	29.6	33.2	37.5
Total Dissolved Solids	mg/L		396	344	344	361
pH at 25 Degrees C	Std. Units		7.3	7.5	7.9	7.8
Appendix IV Constituents						
Antimony, Total	ug/L		<1	<1	<1	<1
Arsenic, Total	ug/L		2.1	1.5	<1	<1
Barium, Total	ug/L		59.1	34.7	23.5	74.2
Beryllium, Total	ug/L		#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L		#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L		#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L		2.8	1.3	<1	<1
Lead, Total	ug/L		#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L		<20	<20	<20	<20
Mercury	ug/L		#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	DRY	<10	<10	<10	<10
Molybdenum, Dissolved	ug/L		<10	<10	<10	<10
Radium-226	pCi/L		<0.125	<0.12	<0	<0.473
Radium-228	pCi/L		0.927	0.604	<0.348	<0.285
Selenium, Total	ug/L		<1	<1	<1	6.7
Thallium, Total	ug/L		#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L		1.05	<0.724	<0.348	<0.758
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L		297	258	211	589
Alkalinity,Bicarbonate (CaCO3)	mg/L		297	258	211	589
Alkalinity,Carbonate (CaCO3)	mg/L		<10	<10	<10	<10
Aluminum, Total	ug/L		575	418	<200	<200
Dissolved Organic Carbon	mg/L		1.3	<1	3.3	1.9
Iron, Total	ug/L		1650	1260	<100	<100
Iron, Ferrous	mg/L		<0.2	<0.2	<0.2	<0.2
Iron, Dissolved	ug/L		#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L		27200	27100	18100	26600
Manganese, Total	ug/L		131	58.5	184	109
Manganese, Dissolved	ug/L		<10	<10	148	111
Nitrogen, Nitrate	mg/L		3.6	2.1	0.47	7
Nitrogen, Nitrite	mg/L		<0.1	<0.1	<0.1	<0.5
Phosphate as P04	mg/L		0.2	0.25	<0.15	<0.15
Potassium, Total	ug/L		5900	2890	3100	1590
Silica, Total	ug/L		20100	19800	7680	12400
Sodium, Total	ug/L		17900	9390	37000	10100
Sulfide	mg/L		<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L		<1	<1	1.4	<1

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Table 3
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Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-21D	MW-22S	MW-22I	MW-22D	MW-23S
Sample Date		10/3/2023	10/4/2023	10/6/2023	10/6/2023	10/4/2023
Pace Lab ID		50355295001	50355432006	50355754004	50355754005	50355430001
Static Water Elevation		584.84	589.79	589.79	589.77	584.78
Field Parameters						
Temperature, Field	Degrees C	18.58	15	18.56	17.09	15.48
Dissolved Oxygen, Field	mg/L	1.34	0	0.11	0.07	8.03
Conductivity, Field	uS/cm	491.5	586.68	474.97	441.16	601.05
ORP, Field	mV	-110.2	101.1	32.7	-117.8	172.4
pH, Field	S.U.	6.9	6.74	6.71	7.26	6.58
Turbidity, Field	NTU	6.49	147.71	115.53	101.87	2.66
Appendix III Constituents						
Boron, Total	ug/L	355	<100	<100	<100	<100
Calcium, Total	ug/L	150000	102000	94500	81900	99700
Chloride	mg/L	47	33.6	11.7	18.8	4.3
Fluoride	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/L	246	39.4	29.2	47.6	4.9
Total Dissolved Solids	mg/L	724	437	339	320	367
pH at 25 Degrees C	Std. Units	6.9	7.8	7.5	7.6	7.6
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	2.5	<1	<1	3.5	<1
Barium, Total	ug/L	37	41.4	56.7	96.2	44
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	1	<1	<1	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	<20	<20	<20	<20	<20
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	<10	<10	<10	<10	<10
Molybdenum, Dissolved	ug/L	<10	<10	<10	<10	<10
Radium-226	pCi/L	0.295	<0.0878	<0.286	0.413	<0.0766
Radium-228	pCi/L	<0.429	<0.0596	0.848	0.503	<0.304
Selenium, Total	ug/L	<1	2	6.1	<1	<1
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	0.724	<0.147	1.13	0.916	<0.381
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	269	332	275	243	335
Alkalinity,Bicarbonate (CaCO3)	mg/L	269	332	275	243	335
Alkalinity,Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	<200	<200	373	281	<200
Dissolved Organic Carbon	mg/L	1.3	2.1	1.5	5.8	2.9
Iron, Total	ug/L	3030	<100	711	1510	<100
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	34800	26300	26400	24400	28000
Manganese, Total	ug/L	367	1360	344	342	<10
Manganese, Dissolved	ug/L	347	817	184	320	<10
Nitrogen, Nitrate	mg/L	<0.1	2.7	4.6	<0.1	8.2
Nitrogen, Nitrite	mg/L	<0.1	<0.1	<0.1	<0.1	<1
Phosphate as P04	mg/L	<0.15	<0.15	<0.15	<0.15	<0.15
Potassium, Total	ug/L	3360	1360	1600	1870	<1000
Silica, Total	ug/L	16100	11800	14800	14700	12300
Sodium, Total	ug/L	46800	30400	6110	9700	4860
Sulfide	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	1.2	1.2	<1	<1	<1

Notes:

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umhos/cm: micromhos per centimeter

#NA: Not analyzed

NM: Not Measured

NS: Not Sampled

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AES Indiana
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Well ID	Units	MW-23I	MW-23D	MW-24S	MW-24I	MW-24D
Sample Date		10/4/2023	10/4/2023	10/17/2023	10/17/2023	10/13/2023
Pace Lab ID		50355430002	50355430003	50356609001	50356609002	50356477002
Static Water Elevation		584.71	584.77	588.77	588.50	588.73
Field Parameters						
Temperature, Field	Degrees C	15.94	14.1	19.92	18.73	19.95
Dissolved Oxygen, Field	mg/L	3.19	0.13	1.06	0.01	0.04
Conductivity, Field	uS/cm	522.19	470.96	821.8	550.13	628.98
ORP, Field	mV	140.2	38	221.8	-136.5	-97.2
pH, Field	S.U.	6.84	6.89	7.1	7.75	6.44
Turbidity, Field	NTU	2.52	63.75	8.12	8.15	26.12
Appendix III Constituents						
Boron, Total	ug/L	<100	<100	208	122	<100
Calcium, Total	ug/L	84100	74500	68200	72500	69300
Chloride	mg/L	10.9	20.3	112	76.4	63.9
Fluoride	mg/L	<0.1	<0.1	0.42	0.31	0.3
Sulfate	mg/L	22.6	37.5	94.4	72.3	48.5
Total Dissolved Solids	mg/L	339	309	527	477	398
pH at 25 Degrees C	Std. Units	8	7.7	7.3	7.4	7
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	<1	<1	1.6	2.3
Barium, Total	ug/L	29.4	42.6	77.4	75.7	62.7
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	<20	<20	<20	<20	<20
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	<10	<10	56.5	52.8	11.8
Molybdenum, Dissolved	ug/L	<10	<10	54.9	52.9	12.8
Radium-226	pCi/L	<0.0686	0.638	0.52	1.12	0.887
Radium-228	pCi/L	0.377	0.602	0.587	0.618	0.558
Selenium, Total	ug/L	5.1	6.4	<1	<1	<1
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	<0.377	1.24	1.11	1.74	1.45
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	296	628	215	248	235
Alkalinity,Bicarbonate (CaCO3)	mg/L	296	628	215	248	235
Alkalinity,Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	<200	221	<200	<200	<200
Dissolved Organic Carbon	mg/L	1.4	1.1	1.6	1.4	1.4
Iron, Total	ug/L	<100	475	<100	641	977
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	0.5	0.62
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	23300	22100	20800	21700	21600
Manganese, Total	ug/L	40.2	157	80	156	145
Manganese, Dissolved	ug/L	39.5	141	83.7	171	142
Nitrogen, Nitrate	mg/L	8.6	1.4	1.5	<0.1	<0.1
Nitrogen, Nitrite	mg/L	<1	<0.1	0.27	<0.1	<0.1
Phosphate as P04	mg/L	<0.15	0.19	<0.15	<0.15	<0.15
Potassium, Total	ug/L	1340	1680	5360	6400	4250
Silica, Total	ug/L	15300	15500	11000	10400	9680
Sodium, Total	ug/L	9160	14000	92500	64800	53800
Sulfide	mg/L	<0.1	<0.1	<0.1	0.03	<0.1
Total Organic Carbon	mg/L	1.7	<1	1.3	1.3	1.7

Notes:

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Table 3
Summary of Monitoring Results - October 2023
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-25S	MW-25I	MW-25D	MW-26S	MW-26I
Sample Date		10/13/2023	10/12/2023	10/12/2023	10/16/2023	10/16/2023
Pace Lab ID		50356477003	50356305006	50356305007	50356558001	50356558002
Static Water Elevation		587.13	587.00	586.82	583.78	583.88
Field Parameters						
Temperature, Field	Degrees C	13.68	15.69	14.49	18.21	17.42
Dissolved Oxygen, Field	mg/L	0.94	0	0.06	0.67	0.16
Conductivity, Field	uS/cm	542.51	761.89	756.71	2404.4	1,103.1
ORP, Field	mV	3	-61.5	-85.3	79.8	266.1
pH, Field	S.U.	7.48	6.39	6.33	7.15	7.12
Turbidity, Field	NTU	0	10.67	7.96	1.37	0
Appendix III Constituents						
Boron, Total	ug/L	331	1020	1690	4080	193
Calcium, Total	ug/L	80300	75800	73400	346000	65500
Chloride	mg/L	82.5	95.1	92.5	323	102
Fluoride	mg/L	0.32	0.1	0.11	0.32	0.39
Sulfate	mg/L	61	83.5	84.4	937	83.6
Total Dissolved Solids	mg/L	455	498	478	2340	538
pH at 25 Degrees C	Std. Units	7.2	7.3	7.8	7.3	7.8
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	1.2	<1	<1	<1
Barium, Total	ug/L	87.5	76.6	58.1	47.7	57.6
Beryllium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cadmium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Cobalt, Total	ug/L	<1	<1	<1	3.4	<1
Lead, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Lithium, Total	ug/L	53.4	78.4	63.1	94.6	<20
Mercury	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Molybdenum, Total	ug/L	65.9	134	178	113	49.6
Molybdenum, Dissolved	ug/L	66.6	138	174	112	50.1
Radium-226	pCi/L	<0.12	<0.251	0.484	<0.282	<0.221
Radium-228	pCi/L	<0.313	0.381	<0.216	0.792	0.597
Selenium, Total	ug/L	<1	<1	<1	<1	<1
Thallium, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Radium	pCi/L	<0.433	<0.632	0.7	1.07	0.818
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	244	224	216	247	233
Alkalinity, Bicarbonate (CaCO3)	mg/L	244	224	216	247	233
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	<200	<200	<200	<200	<200
Dissolved Organic Carbon	mg/L	1	2.4	1.3	<4	2.3
Iron, Total	ug/L	<100	730	1370	<100	<100
Iron, Ferrous	mg/L	<0.2	<0.2	0.25	<0.2	<0.2
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	22000	19800	15300	83000	20100
Manganese, Total	ug/L	575	198	111	2500	20.8
Manganese, Dissolved	ug/L	577	203	108	2690	21.7
Nitrogen, Nitrate	mg/L	<0.1	<0.1	<0.1	<0.1	1.9
Nitrogen, Nitrite	mg/L	<0.1	<0.1	<0.1	<0.1	0.27
Phosphate as P04	mg/L	<0.15	<0.15	<0.15	0.19	<0.15
Potassium, Total	ug/L	6720	6480	3680	14700	5390
Silica, Total	ug/L	10900	11200	11900	16800	11700
Sodium, Total	ug/L	65300	75700	84500	275000	105000
Sulfide	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Total Organic Carbon	mg/L	1.3	1.3	1.5	<4	2.1

Notes:

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Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 3
 Summary of Monitoring Results - October 2023
 Multiunit Ash Pond System
 AES Indiana
 Eagle Valley Generating Station
 Martinsville, Indiana
 Atlas Project No. 170AES0001

Well ID	Units	MW-26D
Sample Date		10/16/2023
Pace Lab ID		50356558003
Static Water Elevation		583.90
Field Parameters		
Temperature, Field	Degrees C	17.24
Dissolved Oxygen, Field	mg/L	0.15
Conductivity, Field	uS/cm	779.09
ORP, Field	mV	-30.1
pH, Field	S.U.	6.77
Turbidity, Field	NTU	59.51
Appendix III Constituents		
Boron, Total	ug/L	102
Calcium, Total	ug/L	116000
Chloride	mg/L	45.1
Fluoride	mg/L	<0.1
Sulfate	mg/L	46.1
Total Dissolved Solids	mg/L	521
pH at 25 Degrees C	Std. Units	7.8
Appendix IV Constituents		
Antimony, Total	ug/L	<1
Arsenic, Total	ug/L	<1
Barium, Total	ug/L	113
Beryllium, Total	ug/L	#N/A
Cadmium, Total	ug/L	#N/A
Chromium, Total	ug/L	#N/A
Cobalt, Total	ug/L	<1
Lead, Total	ug/L	#N/A
Lithium, Total	ug/L	<20
Mercury	ug/L	#N/A
Molybdenum, Total	ug/L	26.9
Molybdenum, Dissolved	ug/L	25.7
Radium-226	pCi/L	0.426
Radium-228	pCi/L	1.17
Selenium, Total	ug/L	<1
Thallium, Total	ug/L	#N/A
Total Radium	pCi/L	1.6
Geochemical Constituents		
Alkalinity, Total as CaCO3	mg/L	378
Alkalinity,Bicarbonate (CaCO3)	mg/L	378
Alkalinity,Carbonate (CaCO3)	mg/L	<10
Aluminum, Total	ug/L	324
Dissolved Organic Carbon	mg/L	2.1
Iron, Total	ug/L	564
Iron, Ferrous	mg/L	<0.2
Iron, Dissolved	ug/L	#N/A
Magnesium, Total	ug/L	31600
Manganese, Total	ug/L	64.5
Manganese, Dissolved	ug/L	62
Nitrogen, Nitrate	mg/L	<0.1
Nitrogen, Nitrite	mg/L	<0.1
Phosphate as P04	mg/L	<0.15
Potassium, Total	ug/L	3410
Silica, Total	ug/L	16100
Sodium, Total	ug/L	32500
Sulfide	mg/L	<0.1
Total Organic Carbon	mg/L	1.8

Notes:

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#NA: Not analyzed

NM: Not Measured

NS: Not Sampled

mV: millivolt

Std. Units: standard units

mg/L: milligram per liter

ug/L: microgram per liter

pCi/L: picoCurie per liter

Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 4
Summary of Monitoring Results - April 2024
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-1S	MW-1I	MW-1D	MW-2S	MW-2I
Sample Date		4/9/2024	4/9/2024	4/9/2024	4/5/2024	4/5/2024
Pace Lab ID		50370189004	50370189005	50370189006	50369976001	50369976002
Static Water Elevation		588.22	588.18	588.12	588.84	588.79
Field Parameters						
Temperature, Field	Degrees C	14.63	16.52	17.83	14.98	15.27
Dissolved Oxygen, Field	mg/L	0.68	0.50	1.56	2.20	0.18
Conductivity, Field	uS/cm	1101.74	799.57	736.77	1007.33	771.42
ORP, Field	mV	116.33	113.67	-49.19	170.62	-102.26
pH, Field	S.U.	6.80	7.60	7.50	6.95	7.56
Turbidity, Field	NTU	2.84	0.00	8.89	0.00	0.00
Appendix III Constituents						
Boron, Total	ug/L	2400	405	317	339	161
Calcium, Total	ug/L	198000	68000	71800	125000	67700
Chloride	mg/L	28.7	105	106	128	112
Fluoride	mg/L	0.11	0.35	0.42	0.21	0.34
Sulfate	mg/L	197	95.1	85.3	110	80.3
Total Dissolved Solids	mg/L	788	472	463	666	471
pH at 25 Degrees C	Std. Units	6.9	7.4	7.3	7.6	7.7
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	2.1	<1	1.9	6.9	<1
Barium, Total	ug/L	65	41.9	57.6	120	70.1
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	53.3	73.7	81.5	34.4	31.2
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	13.4	95.6	96.6	13.9	88.6
Molybdenum, Dissolved	ug/L	13.3	93.4	94.6	12.3	88.1
Radium-226	pCi/L	<0.138	0.604	<0.0568	<0.124	<0.351
Radium-228	pCi/L	<0.249	0.555	1.44	<0.151	0.54
Selenium, Total	ug/L	17.9	<1	<1	3.1	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	<0.387	1.16	1.44	<0.275	0.891
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	520	228	217	332	219
Alkalinity,Bicarbonate (CaCO3)	mg/L	520	218	204	332	219
Alkalinity,Carbonate (CaCO3)	mg/L	<10	10	12.8	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	2.2	1.4	3.3	2.2	1.7
Iron, Total	ug/L	<100	<100	533	<100	<100
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	42300	22100	22700	26700	19600
Manganese, Total	ug/L	10.5	195	306	20.8	146
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	1.9	<0.1	<0.1	0.54	<0.1
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as P04	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	6060	7640	7680	5860	7060
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	35500	79200	65400	87500	88100
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

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Table 4
Summary of Monitoring Results - April 2024
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-2D	MW-3S	MW-3I	MW-3D	MW-4S
Sample Date		4/5/2024	4/5/2024	4/4/2024	4/4/2024	4/9/2024
Pace Lab ID		50369976003	50369976004	50369982005	50369982006	50370189001
Static Water Elevation		588.8	589.37	589.14	588.25	589.54
Field Parameters						
Temperature, Field	Degrees C	14.88	14.44	13.94	14.92	13.09
Dissolved Oxygen, Field	mg/L	0.10	0.07	0.22	0.79	0.83
Conductivity, Field	uS/cm	678.93	1021.08	876.06	648.65	673.51
ORP, Field	mV	-117.13	83.51	61.73	-133.49	158.60
pH, Field	S.U.	7.46	7.45	7.39	7.44	7.22
Turbidity, Field	NTU	0.00	0.00	0.00	0.00	0.89
Appendix III Constituents						
Boron, Total	ug/L	145	232	<100	121	465
Calcium, Total	ug/L	74400	92000	72800	95400	91100
Chloride	mg/L	71.7	143	111	51.7	66
Fluoride	mg/L	0.34	0.33	0.36	0.2	0.26
Sulfate	mg/L	59.2	162	95.8	45	142
Total Dissolved Solids	mg/L	349	680	493	402	468
pH at 25 Degrees C	Std. Units	7.7	6.3	7.6	7.8	6.7
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	4.6	<1	<1	5.4	2.3
Barium, Total	ug/L	68.9	106	71.4	93.1	66.4
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	34.5	<20	<20	<20	<20
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	42.7	44.3	42.2	11.4	34.3
Molybdenum, Dissolved	ug/L	40.7	42.9	41.8	11.1	34.8
Radium-226	pCi/L	0.612	<0.256	0.687	<0.214	<0.104
Radium-228	pCi/L	0.769	<0.0741	1.23	0.793	<0.262
Selenium, Total	ug/L	<1	<1	<1	<1	1.1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	1.38	<0.33	1.92	1.01	<0.366
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	240	227	232	325	201
Alkalinity, Bicarbonate (CaCO3)	mg/L	240	227	232	325	201
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	1.6	1.5	3.1	2.4	2.5
Iron, Total	ug/L	931	<100	<100	1410	<100
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	18000	25300	22500	31100	21200
Manganese, Total	ug/L	205	715	41.5	209	<10
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	0.42	0.43	<0.1	<0.1	0.61
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as P04	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	7730	5500	5650	4100	4200
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	62600	107000	90700	30600	47500
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

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Table 4
Summary of Monitoring Results - April 2024
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-4I	MW-4D	MW-6S	MW-6I	MW-6D
Sample Date		4/9/2024	4/9/2024	4/4/2024	4/4/2024	4/4/2024
Pace Lab ID		50370189002	50370189003	50369982008	50369982009	50369982010
Static Water Elevation		589.48	589.48	<587.09	586.68	586.72
Field Parameters						
Temperature, Field	Degrees C	13.81	14.34	12.67	13.11	13.13
Dissolved Oxygen, Field	mg/L	0.05	0.43	0.21	0.08	1.57
Conductivity, Field	uS/cm	794.69	883.49	1218.91	1098.61	797.78
ORP, Field	mV	-98.47	-86.87	58.28	27.84	-30.85
pH, Field	S.U.	7.49	7.40	6.63	6.90	7.16
Turbidity, Field	NTU	5.82	56.41	0.00	0.00	0.00
Appendix III Constituents						
Boron, Total	ug/L	112	127	10100	856	1520
Calcium, Total	ug/L	84100	105000	144000	123000	77100
Chloride	mg/L	123	144	48.1	84.5	90.5
Fluoride	mg/L	0.4	0.33	0.17	0.29	0.17
Sulfate	mg/L	74.3	101	227	201	82.5
Total Dissolved Solids	mg/L	495	545	744	673	450
pH at 25 Degrees C	Std. Units	7	7.1	7.8	7.6	7.8
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	1.3	<1	<1
Arsenic, Total	ug/L	1.1	6.1	<1	<1	1.7
Barium, Total	ug/L	81.2	71.3	99.6	78.7	63.6
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	<20	<20	107	107	70.3
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	12.4	10.2	91.8	165	198
Molybdenum, Dissolved	ug/L	11.8	10.3	91.4	163	197
Radium-226	pCi/L	0.756	<0.403	<0.0556	1.24	0.517
Radium-228	pCi/L	1.06	0.958	0.851	0.795	0.67
Selenium, Total	ug/L	<1	<1	29.3	<1	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	1.82	<0.958	0.907	2.04	1.19
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	251	248	414	297	218
Alkalinity, Bicarbonate (CaCO3)	mg/L	251	248	414	297	218
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	1.7	1.4	1.4	1.5	1.3
Iron, Total	ug/L	557	2290	169	<100	336
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	27100	29400	30500	26000	14400
Manganese, Total	ug/L	160	214	69.3	175	337
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	<0.1	<0.1	0.39	<0.1	<0.1
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as PO4	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	3820	3520	10900	12100	5640
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	63100	59500	93000	83500	74700
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

Notes:

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Table 4
Summary of Monitoring Results - April 2024
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-7S	MW-8S	MW-9S	MW-9I	MW-9D
Sample Date		4/10/2024	4/4/2024	4/4/2024	4/4/2024	4/4/2024
Pace Lab ID		50370281001	50369982004	50369982001	50369982003	50369982002
Static Water Elevation		588.11	<590.37	<588.82	588.58	588.65
Field Parameters						
Temperature, Field	Degrees C	15.69	10.93	15.94	17.29	15.94
Dissolved Oxygen, Field	mg/L	1.48	-	5.51	0.26	0.15
Conductivity, Field	uS/cm	3164.61	584.03	935.61	1398.38	786.36
ORP, Field	mV	206.30	134.15	117.86	60.84	-19.39
pH, Field	S.U.	6.90	7.17	6.98	7.57	7.10
Turbidity, Field	NTU	7.46	0.52	0.21	0.00	106.36
Appendix III Constituents						
Boron, Total	ug/L	4290	570	662	247	<100
Calcium, Total	ug/L	423000	121000	154000	119000	132000
Chloride	mg/L	332	80.4	53.6	229	57
Fluoride	mg/L	<0.1	0.14	0.12	0.3	<0.1
Sulfate	mg/L	1190	271	202	333	52.6
Total Dissolved Solids	mg/L	2590	649	708	932	535
pH at 25 Degrees C	Std. Units	6.7	7.7	7.5	7.3	7.4
Appendix IV Constituents						
Antimony, Total	ug/L	2.4	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	<1	<1	<1	<1
Barium, Total	ug/L	54.1	79.3	90.8	73.5	133
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	1.3	<1	<1	1.3	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	87.6	<20	<20	22.9	<20
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	23.4	<10	17.6	30.7	<10
Molybdenum, Dissolved	ug/L	21	19.2	18.1	29.8	<10
Radium-226	pCi/L	0.569	0.623	0.259	<0.123	0.815
Radium-228	pCi/L	<0.22	0.732	0.497	0.913	1.1
Selenium, Total	ug/L	20.8	2.8	2.6	<1	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	<0.789	1.36	0.756	<0.913	1.92
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	320	251	330	231	399
Alkalinity, Bicarbonate (CaCO3)	mg/L	320	251	330	231	399
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	<4	2	1.3	2.4	2.5
Iron, Total	ug/L	143	<100	<100	<100	161
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	90400	26900	34200	31800	30800
Manganese, Total	ug/L	475	<10	13.4	347	298
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	4.5	1.5	1.3	2.2	<0.1
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as PO4	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	13700	2350	2850	9020	2650
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	253000	40000	42400	170000	35700
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

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Table 4
Summary of Monitoring Results - April 2024
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-10S	MW-10I	MW-10D	MW-11S	MW-11I
Sample Date		4/17/2024	4/3/2024	4/3/2024	4/9/2024	4/9/2024
Pace Lab ID		50370833001	50369792001	50369792002	50370189007	50370189008
Static Water Elevation		<586.00	585.10	585.13	587.87	587.89
Field Parameters						
Temperature, Field	Degrees C	16.96	13.87	12.90	14.18	15.07
Dissolved Oxygen, Field	mg/L	9.13	0.00	0.47	5.63	0.09
Conductivity, Field	uS/cm	-	1781.66	1104.68	821.13	875.51
ORP, Field	mV	176.22	-3.58	54.03	187.79	-59.10
pH, Field	S.U.	6.28	7.02	7.37	6.51	7.06
Turbidity, Field	NTU	0.12	39.17	26.50	0.00	0.00
Appendix III Constituents						
Boron, Total	ug/L	5760	1170	615	807	634
Calcium, Total	ug/L	189000	229000	143000	118000	76100
Chloride	mg/L	51.9	214	134	42.6	106
Fluoride	mg/L	0.13	0.25	0.14	0.18	0.46
Sulfate	mg/L	301	551	257	107	104
Total Dissolved Solids	mg/L	880	1380	794	484	496
pH at 25 Degrees C	Std. Units	6.6	7.9	7.8	7.4	6.6
Appendix IV Constituents						
Antimony, Total	ug/L	2.4	<1	<1	1.3	<1
Arsenic, Total	ug/L	2.1	<1	<1	76.5	<1
Barium, Total	ug/L	97.6	64.6	93	79.9	57
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	1.6	<1	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	72.9	67.4	56.6	43.1	91.1
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	45.2	114	89.6	72	127
Molybdenum, Dissolved	ug/L	38.6	112	84.6	72.1	128
Radium-226	pCi/L	0.742	1.29	0.93	<0.0552	<0.111
Radium-228	pCi/L	0.731	0.747	0.933	0.72	0.758
Selenium, Total	ug/L	36.3	<1	<1	10.6	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	1.47	2.04	1.86	<0.72	<0.869
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	432	243	260	304	234
Alkalinity,Bicarbonate (CaCO3)	mg/L	432	243	260	304	221
Alkalinity,Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	12.8
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	1.8	<4	1.7	1.9	1.4
Iron, Total	ug/L	1660	578	328	<100	135
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	43000	53600	33800	24000	24000
Manganese, Total	ug/L	779	103	182	<10	212
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	0.66	0.53	<0.1	1.7	<0.1
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as P04	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	8480	11900	8580	5320	8700
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	72200	158000	97900	29200	72800
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

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Summary of Monitoring Results - April 2024
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-11D	MW-12S	MW-12I	MW-12D	MW-13S
Sample Date		4/9/2024	4/5/2024	4/16/2024	4/16/2024	4/10/2024
Pace Lab ID		50370189009	50369976005	50370740001	50370740002	50370281002
Static Water Elevation		587.87	587.22	587.54	587.77	585.35
Field Parameters						
Temperature, Field	Degrees C	15.33	12.70	15.37	15.04	15.26
Dissolved Oxygen, Field	mg/L	0.00	1.88	0.31	0.03	7.22
Conductivity, Field	uS/cm	793.62	1203.18	1357.76	963.89	707.19
ORP, Field	mV	-160.66	117.06	-42.60	-105.26	218.40
pH, Field	S.U.	7.15	6.67	6.42	6.62	7.07
Turbidity, Field	NTU	14.59	0.00	0.00	0.00	6.69
Appendix III Constituents						
Boron, Total	ug/L	620	6800	1700	1240	<100
Calcium, Total	ug/L	75700	149000	128000	79600	89900
Chloride	mg/L	92.3	40.3	90	90.3	25.8
Fluoride	mg/L	0.34	0.27	0.27	0.25	<0.1
Sulfate	mg/L	86.1	176	171	77.8	12.5
Total Dissolved Solids	mg/L	440	746	664	466	445
pH at 25 Degrees C	Std. Units	6.8	6.9	6.4	6.8	7.4
Appendix IV Constituents						
Antimony, Total	ug/L	<1	2	<1	<1	<1
Arsenic, Total	ug/L	4.4	5	<1	3	<1
Barium, Total	ug/L	60.8	172	75.9	55.3	44.5
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	1.7	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	79.7	138	113	74.3	<20
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	125	28.6	157	188	<10
Molybdenum, Dissolved	ug/L	129	22.9	162	188	<10
Radium-226	pCi/L	0.568	<0.241	2.28	<0.305	<0
Radium-228	pCi/L	1.07	<0.0811	0.967	0.777	0.391
Selenium, Total	ug/L	<1	21.2	<1	<1	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	1.64	<0.322	3.25	<0.777	<0.391
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	230	461	281	225	356
Alkalinity, Bicarbonate (CaCO3)	mg/L	230	461	281	210	356
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	15.6	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	1.2	1.3	1.3	1.3	<1
Iron, Total	ug/L	1240	3420	306	373	<100
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	19800	31500	31000	14800	22700
Manganese, Total	ug/L	264	740	288	292	<10
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	<0.1	0.25	<0.1	<0.1	10.9
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as PO4	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	6880	13700	11100	5480	2950
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	64000	92500	74000	71200	54200
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

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NS: Not Sampled

mV: millivolt

Std. Units: standard units

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ug/L: microgram per liter

pCi/L: picoCurie per liter

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AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-13I	MW-13D	MW-14S	MW-14I	MW-14D
Sample Date		4/10/2024	4/10/2024	4/15/2024	4/15/2024	4/15/2024
Pace Lab ID		50370281004	50370281005	50370647001	50370647002	50370647003
Static Water Elevation		585.35	585.28	585.54	585.44	585.49
Field Parameters						
Temperature, Field	Degrees C	13.23	13.17	14.96	15.59	15.89
Dissolved Oxygen, Field	mg/L	5.47	2.44	2.91	0.19	2.35
Conductivity, Field	uS/cm	553.87	545.32	598.01	778.24	1501.22
ORP, Field	mV	221.42	219.54	267.10	266.01	194.22
pH, Field	S.U.	7.28	7.34	6.86	7.08	6.28
Turbidity, Field	NTU	2.32	0.92	7.71	22.99	0.48
Appendix III Constituents						
Boron, Total	ug/L	<100	<100	718	3850	4320
Calcium, Total	ug/L	76600	74600	97700	96300	138000
Chloride	mg/L	33.4	30.9	6.4	75.1	147
Fluoride	mg/L	<0.1	<0.1	0.11	<0.1	<0.1
Sulfate	mg/L	21.8	28.2	32.1	117	245
Total Dissolved Solids	mg/L	311	318	380	546	754
pH at 25 Degrees C	Std. Units	7.4	7.4	6.7	6.9	7.1
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	<1	<1	<1	<1
Barium, Total	ug/L	34.4	55.1	32.8	40.8	22.2
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	<20	<20	33.1	83	20.5
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	<10	<10	57.7	121	<10
Molybdenum, Dissolved	ug/L	<10	<10	57.2	121	<10
Radium-226	pCi/L	<0.203	<0.173	<0.193	<0	<0.27
Radium-228	pCi/L	<0.359	0.513	<0.0717	0.754	0.597
Selenium, Total	ug/L	<1	1.2	1	<1	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	<0.359	<0.513	<0.193	<0.754	0.867
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	264	268	315	287	245
Alkalinity, Bicarbonate (CaCO3)	mg/L	264	268	315	287	245
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	1.2	1	1	1.6	1.8
Iron, Total	ug/L	<100	<100	184	<100	<100
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	20700	21800	25200	23100	30300
Manganese, Total	ug/L	<10	<10	11.2	<10	119
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	3.9	1.6	9.4	<0.1	<0.1
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as PO4	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	2160	1750	2630	4640	3910
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	29100	29000	17000	75100	87700
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

Notes:

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°C: Degrees celcius

uS/cm: microsiemen per centimeter

umhos/cm: micromhos per centimeter

#NA: Not analyzed

NM: Not Measured

NS: Not Sampled

mV: millivolt

Std. Units: standard units

mg/L: milligram per liter

ug/L: microgram per liter

pCi/L: picoCurie per liter

Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 4
Summary of Monitoring Results - April 2024
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-15S	MW-15I	MW-15D	MW-16S	MW-16I
Sample Date		4/4/2024	4/4/2024	4/5/2024	4/9/2024	4/5/2024
Pace Lab ID		50369979001	50369979002	50369975003	50370192001	50369975001
Static Water Elevation		586.82	586.97	586.94	588.85	588.89
Field Parameters						
Temperature, Field	Degrees C	12.81	13.43	13.61	15.35	13.73
Dissolved Oxygen, Field	mg/L	4.44	0.15	0.10	0.07	1.12
Conductivity, Field	uS/cm	871.11	1147.71	895.16	938.18	693.60
ORP, Field	mV	70.52	27.15	-56.09	250.03	29.44
pH, Field	S.U.	6.82	6.95	7.20	7.29	7.46
Turbidity, Field	NTU	0.00	0.21	0.00	9.36	2.90
Appendix III Constituents						
Boron, Total	ug/L	1870	4330	3730	247	155
Calcium, Total	ug/L	117000	124000	82600	92200	87100
Chloride	mg/L	29.3	66.5	100	133	118
Fluoride	mg/L	0.29	0.25	0.25	0.32	0.3
Sulfate	mg/L	85	196	126	129	111
Total Dissolved Solids	mg/L	505	710	535	599	553
pH at 25 Degrees C	Std. Units	7.6	7.5	7.7	6.9	7.7
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	1.1	<1	<1	<1	<1
Barium, Total	ug/L	83.6	75.8	45.9	80.9	82.8
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	1.2	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	69.5	134	81.3	40	55.7
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	69.3	182	212	56.7	94.4
Molybdenum, Dissolved	ug/L	67.7	186	210	55.5	92.1
Radium-226	pCi/L	<0.376	1.07	<0.204	<0.0683	0.768
Radium-228	pCi/L	0.636	0.464	0.953	0.392	0.543
Selenium, Total	ug/L	4.8	<1	<1	<1	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	1.01	1.53	1.16	<0.46	1.31
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	340	352	206	274	236
Alkalinity, Bicarbonate (CaCO3)	mg/L	340	352	206	274	236
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	<1	1	2.9	1.3	1.6
Iron, Total	ug/L	381	<100	157	105	<100
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	29400	28500	15300	23900	26100
Manganese, Total	ug/L	32.5	79.4	314	476	104
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	5.6	<0.1	<0.1	0.87	<0.1
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as PO4	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	6880	12600	6340	7470	7980
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	33500	88900	89800	100000	81100
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

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Table 4
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Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-16D	MW-17S	MW-17I	MW-17D	MW-18S
Sample Date		4/5/2024	4/22/2024	4/22/2024	4/22/2024	4/4/2024
Pace Lab ID		50369975002	50371215001	50371215002	50371215003	50369978001
Static Water Elevation		588.90	586.96	586.94	587.08	587.48
Field Parameters						
Temperature, Field	Degrees C	13.34	11.81	12.03	12.28	9.87
Dissolved Oxygen, Field	mg/L	0.55	0.03	0.05	0.06	4.64
Conductivity, Field	uS/cm	580.19	675.89	544.26	721.87	627.60
ORP, Field	mV	-127.44	261.45	229.40	-122.84	23.79
pH, Field	S.U.	7.58	7.07	7.39	7.44	7.46
Turbidity, Field	NTU	0.00	0.41	0.28	5.92	0.00
Appendix III Constituents						
Boron, Total	ug/L	<100	396	434	2480	119
Calcium, Total	ug/L	70100	110000	84800	94800	102000
Chloride	mg/L	70	40.7	44.4	66.4	37.8
Fluoride	mg/L	0.36	0.16	0.14	<0.1	0.13
Sulfate	mg/L	57.1	30	37.6	101	115
Total Dissolved Solids	mg/L	393	402	360	477	431
pH at 25 Degrees C	Std. Units	7.8	7.2	7.3	7.3	7.6
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	4.2	<1	<1	5.8	<1
Barium, Total	ug/L	59.2	128	60	60.3	44.7
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	31.1	<20	<20	35.4	<20
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	36.9	16.5	<10	12.6	14.6
Molybdenum, Dissolved	ug/L	36.4	15.9	<10	12	14.2
Radium-226	pCi/L	0.36	<0.0573	<0.318	0.587	<0.296
Radium-228	pCi/L	<0.231	0.739	0.965	0.693	<0.0309
Selenium, Total	ug/L	<1	1.4	<1	<1	10.8
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	0.591	<0.796	1.28	1.28	<0
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	226	327	280	322	231
Alkalinity, Bicarbonate (CaCO3)	mg/L	226	310	259	322	231
Alkalinity, Carbonate (CaCO3)	mg/L	<10	17.6	21.2	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	1.7	1.9	1.2	<1	1.9
Iron, Total	ug/L	952	<100	<100	2260	<100
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	17800	22800	21200	25200	22000
Manganese, Total	ug/L	164	<10	<10	339	<10
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	<0.1	4.3	1.1	<0.1	1.6
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as P04	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	7180	3610	2320	2960	2540
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	57700	24300	30400	44400	27100
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

Notes:

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Table 4
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Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-18I	MW-18D	MW-19S	MW-19I	MW-19D
Sample Date		4/4/2024	4/4/2024	4/4/2024	4/4/2024	4/4/2024
Pace Lab ID		50369978002	50369978003	50369978004	50369978005	50369978006
Static Water Elevation		587.22	587.5	586.95	586.98	586.98
Field Parameters						
Temperature, Field	Degrees C	10.55	11.06	12.62	13.14	13.01
Dissolved Oxygen, Field	mg/L	2.59	0.17	4.97	0.06	0.05
Conductivity, Field	uS/cm	707.73	-	561.88	669.36	915.46
ORP, Field	mV	22.29	-67.40	48.22	-30.34	-27.97
pH, Field	S.U.	7.41	7.44	7.12	7.41	7.41
Turbidity, Field	NTU	0.00	12.54	37.68	1.21	0.01
Appendix III Constituents						
Boron, Total	ug/L	467	4360	311	3380	5180
Calcium, Total	ug/L	110000	118000	107000	80200	102000
Chloride	mg/L	57.4	168	12.9	55.9	118
Fluoride	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/L	115	193	12.4	71.6	173
Total Dissolved Solids	mg/L	500	688	375	432	638
pH at 25 Degrees C	Std. Units	7.6	7.6	6.7	7.2	7.4
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	1.2	2.1	<1	<1
Barium, Total	ug/L	95.5	119	35.8	56.5	42.5
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	1.5	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	35.5	116	<20	85.4	48.2
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	54	159	<10	151	26.2
Molybdenum, Dissolved	ug/L	52.3	155	<10	146	26.5
Radium-226	pCi/L	<0.167	0.67	<0.243	<0.132	<0.0916
Radium-228	pCi/L	0.365	1.33	<0.378	0.851	0.662
Selenium, Total	ug/L	2.9	<1	<1	<1	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	<0.532	2	<0.378	0.983	0.754
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	285	210	336	262	248
Alkalinity,Bicarbonate (CaCO3)	mg/L	285	210	336	262	248
Alkalinity,Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	1.1	<1	1.3	<1	<1
Iron, Total	ug/L	<100	782	1610	100	145
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	26700	22500	27900	16900	22600
Manganese, Total	ug/L	11.8	505	196	64	334
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	0.95	<0.1	7.1	<0.1	<0.1
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as P04	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	4200	8030	2050	5980	4120
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	40200	95000	8580	63600	97500
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

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Table 4
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Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-20S	MW-20I	MW-20D	MW-21S	MW-21I
Sample Date		4/15/2024	4/15/2024	4/15/2024	4/10/2024	4/10/2024
Pace Lab ID		50370648001	50370648002	50370648003	50370280001	50370280004
Static Water Elevation		586.63	586.68	586.65	586.46	586.44
Field Parameters						
Temperature, Field	Degrees C	14.15	15.62	14.76	13.30	13.82
Dissolved Oxygen, Field	mg/L	8.61	2.36	2.26	0.04	0.83
Conductivity, Field	uS/cm	892.81	389.73	369.29	590.08	573.54
ORP, Field	mV	206.81	216.66	244.20	235.24	186.74
pH, Field	S.U.	6.17	7.29	7.42	7.53	7.41
Turbidity, Field	NTU	22.20	0.33	0.17	0.26	4.61
Appendix III Constituents						
Boron, Total	ug/L	<100	<100	<100	<100	<100
Calcium, Total	ug/L	111000	80300	79400	65700	94600
Chloride	mg/L	28.7	21.1	22.3	80.5	20.6
Fluoride	mg/L	<0.1	<0.1	<0.1	0.19	<0.1
Sulfate	mg/L	11.6	24.9	30.3	44	38.8
Total Dissolved Solids	mg/L	417	305	319	382	334
pH at 25 Degrees C	Std. Units	7.4	7.5	7.4	7.6	7.2
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	1	<1	<1	<1
Barium, Total	ug/L	25.6	48.3	32.4	24.8	85.3
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	<20	<20	<20	<20	<20
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	<10	<10	<10	<10	<10
Molybdenum, Dissolved	ug/L	<10	<10	<10	<10	<10
Radium-226	pCi/L	0.739	1.02	<0.389	<0.15	<0.047
Radium-228	pCi/L	<0.147	<0.396	0.735	1.06	<0.149
Selenium, Total	ug/L	<1	<1	<1	<1	10.6
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	0.886	1.42	1.12	1.06	<0.149
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	376	270	263	201	277
Alkalinity,Bicarbonate (CaCO3)	mg/L	354	249	244	201	277
Alkalinity,Carbonate (CaCO3)	mg/L	22.4	20.8	19.2	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	2.4	1	1.6	1.4	<1
Iron, Total	ug/L	102	1100	228	<100	<100
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	27400	23300	24700	19800	27500
Manganese, Total	ug/L	<10	62.8	<10	130	118
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	5.5	2.3	2.7	0.17	7.5
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as P04	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	2380	3610	2440	2940	1800
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	21600	11000	8360	46600	9630
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

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Well ID	Units	MW-21D	MW-22S	MW-22I	MW-22D	MW-23S
Sample Date		4/10/2024	4/16/2024	4/16/2024	4/16/2024	4/10/2024
Pace Lab ID		50370280005	50370739001	50370739002	50370739003	50370280009
Static Water Elevation		586.44	592.08	592.06	592.06	587.19
Field Parameters						
Temperature, Field	Degrees C	13.70	13.14	13.80	14.88	12.82
Dissolved Oxygen, Field	mg/L	1.17	0.01	0.02	0.38	7.37
Conductivity, Field	uS/cm	888.82	661.70	504.61	461.87	656.30
ORP, Field	mV	-101.81	276.83	275.75	-123.42	127.44
pH, Field	S.U.	7.32	6.89	6.92	7.53	6.60
Turbidity, Field	NTU	3.35	4.09	28.68	47.12	4.98
Appendix III Constituents						
Boron, Total	ug/L	313	<100	<100	<100	<100
Calcium, Total	ug/L	140000	117000	87600	75200	104000
Chloride	mg/L	45.9	67	13.4	20.5	3.1
Fluoride	mg/L	<0.1	0.14	<0.1	<0.1	<0.1
Sulfate	mg/L	242	47.6	27	42	8.5
Total Dissolved Solids	mg/L	660	469	324	287	361
pH at 25 Degrees C	Std. Units	7.2	5.9	6.3	6.4	6.7
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	3	<1	<1	4.8	<1
Barium, Total	ug/L	33	34	62.2	96.9	40.9
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	<20	<20	<20	<20	<20
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	<10	<10	<10	<10	<10
Molybdenum, Dissolved	ug/L	<10	<10	<10	<10	<10
Radium-226	pCi/L	<0.0519	0.95	<0.263	0.905	0.301
Radium-228	pCi/L	<0.106	0.695	0.695	0.848	0.783
Selenium, Total	ug/L	<1	5.3	3.9	<1	1.4
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	<0	1.65	0.958	1.75	1.08
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	274	338	281	244	340
Alkalinity, Bicarbonate (CaCO3)	mg/L	274	338	281	244	340
Alkalinity, Carbonate (CaCO3)	mg/L	<10	<10	<10	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	1	3	<1	<1	<4
Iron, Total	ug/L	2390	<100	110	1650	231
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	31800	24100	25200	23100	29500
Manganese, Total	ug/L	373	564	287	306	10.3
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	<0.1	1.2	5.6	<0.1	8.8
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as P04	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	2960	1650	1410	1740	<1000
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	41100	35200	6160	9830	3170
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

Notes:

ft MSL: Elevation, feet mean sea level

°C: Degrees celcius

uS/cm: microsiemen per centimeter

umhos/cm: micromhos per centimeter

#NA: Not analyzed

NM: Not Measured

NS: Not Sampled

mV: millivolt

Std. Units: standard units

mg/L: milligram per liter

ug/L: microgram per liter

pCi/L: picoCurie per liter

Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 4
Summary of Monitoring Results - April 2024
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-23I	MW-23D	MW-24S	MW-24I	MW-24D
Sample Date		4/10/2024	4/16/2024	4/15/2024	4/15/2024	4/15/2024
Pace Lab ID		50370280006	50370739004	50370647004	50370647005	50370647006
Static Water Elevation		587.14	587.21	589.77	589.52	589.69
Field Parameters						
Temperature, Field	Degrees C	13.04	13.70	11.54	14.25	12.97
Dissolved Oxygen, Field	mg/L	0.00	0.06	1.84	1.62	1.01
Conductivity, Field	uS/cm	558.98	615.26	806.77	1195.00	710.91
ORP, Field	mV	58.12	204.64	62.11	-103.80	-128.76
pH, Field	S.U.	6.95	6.56	7.52	7.37	7.55
Turbidity, Field	NTU	0.00	0.00	6.16	0.01	0.00
Appendix III Constituents						
Boron, Total	ug/L	<100	<100	128	152	<100
Calcium, Total	ug/L	82800	71600	63200	92500	76300
Chloride	mg/L	14	20.8	108	194	65.5
Fluoride	mg/L	<0.1	<0.1	0.35	0.29	0.3
Sulfate	mg/L	38.5	35.2	79.3	175	48.3
Total Dissolved Solids	mg/L	260	294	472	710	408
pH at 25 Degrees C	Std. Units	7.4	6.6	7.2	7.4	7.6
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	<1	<1	<1	2.3	2.5
Barium, Total	ug/L	27.6	52.5	59.8	112	81.6
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	<1	<1	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	<20	<20	<20	20.4	<20
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	<10	<10	40.9	69.4	11.7
Molybdenum, Dissolved	ug/L	<10	<10	41.3	65.7	11.2
Radium-226	pCi/L	0.202	<0	0.877	1.37	0.733
Radium-228	pCi/L	0.852	0.73	<0.47	0.899	0.635
Selenium, Total	ug/L	11	7.4	2.3	<1	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	1.05	<0.73	1.35	2.27	1.37
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	250	236	215	242	275
Alkalinity, Bicarbonate (CaCO3)	mg/L	250	217	197	242	256
Alkalinity, Carbonate (CaCO3)	mg/L	<10	18.8	18	<10	19.2
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	<1	<1	1.5	1.8	1.3
Iron, Total	ug/L	<100	394	112	903	928
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	22700	21400	22000	27800	25000
Manganese, Total	ug/L	31.1	208	43.7	216	152
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	4.8	0.84	2.5	<0.1	<0.1
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as PO4	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	1340	1540	3900	7210	4100
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	8400	14100	88800	133000	48100
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

Notes:

ft MSL: Elevation, feet mean sea level

°C: Degrees celcius

uS/cm: microsiemen per centimeter

umhos/cm: micromhos per centimeter

#NA: Not analyzed

NM: Not Measured

NS: Not Sampled

mV: millivolt

Std. Units: standard units

mg/L: milligram per liter

ug/L: microgram per liter

pCi/L: picoCurie per liter

Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 4
Summary of Monitoring Results - April 2024
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station
Martinsville, Indiana
Atlas Project No. 170AES0001

Well ID	Units	MW-25S	MW-25I	MW-25D	MW-26S	MW-26I
Sample Date		4/23/2024	4/23/2024	4/23/2024	4/3/2024	4/3/2024
Pace Lab ID		50371295001	50371295002	50371295003	50369793001	50369793002
Static Water Elevation		588.23	588.20	588.05	585.53	585.66
Field Parameters						
Temperature, Field	Degrees C	15.58	13.81	13.78	16.75	15.86
Dissolved Oxygen, Field	mg/L	0.75	0.04	2.28	0.08	0.02
Conductivity, Field	uS/cm	773.56	720.15	708.31	2785.15	1022.77
ORP, Field	mV	-61.04	-123.10	-128.95	-57.68	-9.63
pH, Field	S.U.	7.36	7.58	7.53	6.98	7.01
Turbidity, Field	NTU	1.67	6.21	2.27	4.98	0.00
Appendix III Constituents						
Boron, Total	ug/L	312	1070	1350	3990	<100
Calcium, Total	ug/L	94000	74000	76100	352000	88200
Chloride	mg/L	115	94.3	91.7	340	148
Fluoride	mg/L	0.3	0.12	0.11	0.27	0.37
Sulfate	mg/L	92.8	77.3	77.3	1100	119
Total Dissolved Solids	mg/L	524	446	456	2400	573
pH at 25 Degrees C	Std. Units	7.4	7.4	7.4	6.5	7
Appendix IV Constituents						
Antimony, Total	ug/L	<1	<1	<1	<1	<1
Arsenic, Total	ug/L	1.2	1.5	1.1	<1	<1
Barium, Total	ug/L	105	70.8	53.8	43.1	87.3
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium, Total	ug/L	<2	<2	<2	<2	<2
Chromium, Total	ug/L	<10	<10	<10	<10	<10
Cobalt, Total	ug/L	<1	<1	<1	2.8	<1
Lead, Total	ug/L	<10	<10	<10	<10	<10
Lithium, Total	ug/L	58.4	80.7	70.7	118	<20
Mercury	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	50.6	145	183	187	36.2
Molybdenum, Dissolved	ug/L	47	138	171	183	34.8
Radium-226	pCi/L	0.605	0.982	0.702	0.552	<0.225
Radium-228	pCi/L	0.672	0.696	<0.199	0.638	<0.287
Selenium, Total	ug/L	<1	<1	<1	<1	<1
Thallium, Total	ug/L	<1	<1	<1	<1	<1
Total Radium	pCi/L	1.28	1.68	<0.901	1.19	<0.512
Geochemical Constituents						
Alkalinity, Total as CaCO3	mg/L	252	226	225	233	205
Alkalinity, Bicarbonate (CaCO3)	mg/L	252	211	211	233	205
Alkalinity, Carbonate (CaCO3)	mg/L	<10	14.8	14.4	<10	<10
Aluminum, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Dissolved Organic Carbon	mg/L	1.3	1.1	<1	<4	2
Iron, Total	ug/L	407	786	1430	<100	<100
Iron, Ferrous	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Iron, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Magnesium, Total	ug/L	25200	19700	15900	83600	26300
Manganese, Total	ug/L	704	196	110	2120	25
Manganese, Dissolved	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Nitrogen, Nitrate	mg/L	<0.1	<0.1	<0.1	<0.1	1.1
Nitrogen, Nitrite	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Phosphate as PO4	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Potassium, Total	ug/L	6830	6610	3900	19500	5680
Silica, Total	ug/L	#N/A	#N/A	#N/A	#N/A	#N/A
Sodium, Total	ug/L	73900	77300	81600	281000	94500
Sulfide	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A
Total Organic Carbon	mg/L	#N/A	#N/A	#N/A	#N/A	#N/A

Notes:

ft MSL: Elevation, feet mean sea level

°C: Degrees celcius

uS/cm: microsiemen per centimeter

umhos/cm: micromhos per centimeter

#NA: Not analyzed

NM: Not Measured

NS: Not Sampled

mV: millivolt

Std. Units: standard units

mg/L: milligram per liter

ug/L: microgram per liter

pCi/L: picoCurie per liter

Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 4
 Summary of Monitoring Results - April 2024
 Multiunit Ash Pond System
 AES Indiana
 Eagle Valley Generating Station
 Martinsville, Indiana
 Atlas Project No. 170AES0001

Well ID	Units	MW-26D
Sample Date		4/3/2024
Pace Lab ID		50369793003
Static Water Elevation		585.63
Field Parameters		
Temperature, Field	Degrees C	15.95
Dissolved Oxygen, Field	mg/L	1.78
Conductivity, Field	uS/cm	957.84
ORP, Field	mV	5.72
pH, Field	S.U.	6.90
Turbidity, Field	NTU	0.00
Appendix III Constituents		
Boron, Total	ug/L	103
Calcium, Total	ug/L	135000
Chloride	mg/L	81.9
Fluoride	mg/L	<0.1
Sulfate	mg/L	72.3
Total Dissolved Solids	mg/L	543
pH at 25 Degrees C	Std. Units	7.2
Appendix IV Constituents		
Antimony, Total	ug/L	<1
Arsenic, Total	ug/L	<1
Barium, Total	ug/L	127
Beryllium, Total	ug/L	<0.2
Cadmium, Total	ug/L	<2
Chromium, Total	ug/L	<10
Cobalt, Total	ug/L	<1
Lead, Total	ug/L	<10
Lithium, Total	ug/L	<20
Mercury	ug/L	<0.2
Molybdenum, Total	ug/L	23
Molybdenum, Dissolved	ug/L	20.4
Radium-226	pCi/L	0.375
Radium-228	pCi/L	0.832
Selenium, Total	ug/L	<1
Thallium, Total	ug/L	<1
Total Radium	pCi/L	1.21
Geochemical Constituents		
Alkalinity, Total as CaCO3	mg/L	341
Alkalinity,Bicarbonate (CaCO3)	mg/L	341
Alkalinity,Carbonate (CaCO3)	mg/L	<10
Aluminum, Total	ug/L	#N/A
Dissolved Organic Carbon	mg/L	1.9
Iron, Total	ug/L	<100
Iron, Ferrous	mg/L	#N/A
Iron, Dissolved	ug/L	#N/A
Magnesium, Total	ug/L	35000
Manganese, Total	ug/L	69
Manganese, Dissolved	ug/L	#N/A
Nitrogen, Nitrate	mg/L	<0.1
Nitrogen, Nitrite	mg/L	#N/A
Phosphate as P04	mg/L	#N/A
Potassium, Total	ug/L	3290
Silica, Total	ug/L	#N/A
Sodium, Total	ug/L	27500
Sulfide	mg/L	#N/A
Total Organic Carbon	mg/L	#N/A

Notes:

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- °C: Degrees celcius
- uS/cm: microsiemen per centimeter
- umhos/cm: micromhos per centimeter
- #NA: Not analyzed
- NM: Not Measured
- NS: Not Sampled
- mV: millivolt
- Std. Units: standard units
- mg/L: milligram per liter
- ug/L: microgram per liter
- pCi/L: picoCurie per liter

Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 5
 Groundwater Protection Standards -
 November 2023 and April 2024
 Multiunit Ash Pond System
 AES Indiana
 Eagle Valley Generating Station
 Martinsville, Indiana
 Atlas Project No. 170AES0001

Parameter	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
Shallow Zone GWPS	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
Intermediate Zone GWPS	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
Deep Zone GWPS	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5

Notes:
 ug/L = micrograms per liter (ppb)
 mg/L = milligrams per liter (ppm)
 pCi/L = picoCuries per liter
 GWPS = Groundwater Protection Standard

Appendix A: Gauging Data and Groundwater Flow Rate Calculations

Table A-1
Gauging Summary
March 29, 2024
Eagle Valley Generating Station
Atlas Project No. 170AES0001

Well	Date	Time	DTW, from top of Reference Point	Reference Point Elevation (ft MSL)	SWE, ft MSL
MW-1S	3/29/2024	11:07	24.71	612.93	588.22
MW-1I	3/29/2024	11:02	24.13	612.31	588.18
MW-1D	3/29/2024	11:04	24.79	612.91	588.12
MW-2S	3/29/2024	10:46	19.61	608.45	588.84
MW-2I	3/29/2024	10:42	20.14	608.93	588.79
MW-2D	3/29/2024	10:44	19.92	608.72	588.80
MW-3S	3/29/2024	10:33	21.43	610.80	589.37
MW-3I	3/29/2024	10:39	21.62	610.76	589.14
MW-3D	3/29/2024	10:37	22.03	610.28	588.25
MW-4S	3/29/2024	10:27	20.40	609.94	589.54
MW-4I	3/29/2024	10:23	25.18	614.66	589.48
MW-4D	3/29/2024	10:25	25.24	614.72	589.48
MW-6S	3/29/2024	11:36	dry to pump (18.9)	605.99	<587.09
MW-6I	3/29/2024	11:34	19.32	606.00	586.68
MW-6D	3/29/2024	11:39	18.13	604.85	586.72
MW-7S	3/29/2024	12:03	28.57	616.68	588.11
MW-8S	3/29/2024	10:18	dry to pump (26.3)	616.67	<590.37
MW-9S	3/29/2024	10:09	dry to pump (28.7)	617.52	<588.82
MW-9I	3/29/2024	10:14	28.48	617.06	588.58
MW-9D	3/29/2024	10:11	28.76	617.41	588.65
MW-10S	3/29/2024	10:05	dry to pump (27.7)	613.70	<586.00
MW-10I	3/29/2024	10:00	28.58	613.68	585.10
MW-10D	3/29/2024	10:03	28.41	613.54	585.13
MW-11S	3/29/2024	11:14	39.42	627.29	587.87
MW-11I	3/29/2024	11:16	39.63	627.52	587.89
MW-11D	3/29/2024	11:18	39.69	627.56	587.87
MW-12S	3/29/2024	11:45	20.04	607.26	587.22
MW-12I	3/29/2024	11:43	19.82	607.36	587.54
MW-12D	3/29/2024	11:48	19.98	607.75	587.77
MW-13S	3/29/2024	11:20	20.68	606.03	585.35
MW-13I	3/29/2024	11:22	20.86	606.21	585.35
MW-13D	3/29/2024	11:24	20.58	605.86	585.28
MW-14S	3/29/2024	11:30	21.85	607.39	585.54
MW-14I	3/29/2024	11:32	21.90	607.34	585.44
MW-14D	3/29/2024	11:35	21.84	607.33	585.49
MW-15S	3/29/2024	11:51	20.68	607.50	586.82
MW-15I	3/29/2024	11:53	20.64	607.61	586.97
MW-15D	3/29/2024	11:55	20.57	607.51	586.94
MW-16S	3/29/2024	10:54	20.69	609.54	588.85
MW-16I	3/29/2024	10:56	20.64	609.53	588.89
MW-16D	3/29/2024	10:58	20.70	609.60	588.90
MW-17S	3/29/2024	10:44	15.24	602.20	586.96
MW-17I	3/29/2024	10:47	15.75	602.69	586.94
MW-17D	3/29/2024	10:50	15.39	602.47	587.08
MW-18S	3/29/2024	10:56	18.65	606.13	587.48
MW-18I	3/29/2024	10:58	18.60	605.82	587.22
MW-18D	3/29/2024	11:00	18.69	606.19	587.50
MW-19S	3/29/2024	11:09	15.90	602.85	586.95
MW-19I	3/29/2024	11:11	15.71	602.69	586.98
MW-19D	3/29/2024	11:14	15.69	602.67	586.98
MW-20S	3/29/2024	10:34	28.37	615.00	586.63
MW-20I	3/29/2024	10:37	27.95	614.63	586.68
MW-20D	3/29/2024	10:40	28.45	615.10	586.65
MW-21S	3/29/2024	9:56	14.88	601.34	586.46
MW-21I	3/29/2024	9:58	14.94	601.38	586.44
MW-21D	3/29/2024	10:00	14.89	601.33	586.44
MW-22S	3/29/2024	10:08	16.41	608.49	592.08
MW-22I	3/29/2024	10:10	16.31	608.37	592.06
MW-22D	3/29/2024	10:12	16.38	608.44	592.06
MW-23S	3/29/2024	10:21	13.55	600.74	587.19
MW-23I	3/29/2024	10:24	13.50	600.64	587.14
MW-23D	3/29/2024	10:27	13.51	600.72	587.21
MW-24S	3/29/2024	11:41	17.95	607.72	589.77
MW-24I	3/29/2024	11:45	18.02	607.54	589.52
MW-24D	3/29/2024	11:48	18.05	607.74	589.69
MW-25S	3/29/2024	12:00	14.65	602.88	588.23
MW-25I	3/29/2024	12:02	15.30	603.50	588.20
MW-25D	3/29/2024	12:05	15.32	603.37	588.05

Table A-1
 Gauging Summary
 March 29, 2024
 Eagle Valley Generating Station
 Atlas Project No. 170AES0001

Well	Date	Time	DTW, from top of Reference Point	Reference Point Elevation (ft MSL)	SWE, ft MSL
MW-26S	3/29/2024	9:45	30.61	616.14	585.53
MW-26I	3/29/2024	9:50	30.67	616.33	585.66
MW-26D	3/29/2024	9:54	30.52	616.15	585.63
USGS Gage Station 03354000	3/29/2024	12:00	1.23	594.85	593.62

Notes:
 DTW = Depth to water
 SWE = Static Water Elevation
 ft MSL = feet above Mean Sea Level

TABLE A-2
HORIZONTAL GRADIENT AND SEEPAGE VELOCITY CALCULATIONS - MARCH 2024
 EAGLE VALLEY GENERATING STATION
 4040 BLUE BLUFF ROAD
 MARTINSVILLE, INDIANA

Points/Area for Calculation	Flow Zone	Gauging Date	Horizontal Distance - Δ L (ft)	Upgradient Water Elevation (ft MSL)	Downgradient Water Elevation (ft MSL)	Head Difference - Δ H (Ft)	K Upgradient Well (ft/day)	K Downgradient Well (ft/day)	K Average (ft/day)	n_e	Hydraulic Gradient - Δ H / Δ L (ft/ft)	Seepage Velocity - V (ft/yr)
MW-4S to MW-7S	Shallow	3/30/2024	670	589.54	588.11	1.43	1091	225	658	0.3	0.0021	1709
MW-19S to MW-14S	Shallow	3/30/2024	1210	586.95	585.54	1.41	109	21	65	0.3	0.0012	92
MW-24S to MW-25S	Shallow	3/30/2024	2450	589.77	588.23	1.54	280	192	236	0.3	0.0006	180
MW-22S to MW-17S	Shallow	3/30/2024	2750	592.08	586.96	5.12	126	90	108	0.3	0.0019	245
MW-20S to MW-13S	Shallow	3/30/2024	1680	586.63	585.35	1.28	96	22	59	0.3	0.0008	55
Geometric Mean (Shallow)											0.0012	207
MW-3I to MW-10I	Intermediate	3/30/2024	1880	589.14	585.1	4.04	23	13	18	0.3	0.0021	47
MW-19I to MW-14I	Intermediate	3/30/2024	1210	586.98	585.44	1.54	109	21	65	0.3	0.0013	101
MW-24I to MW-25I	Intermediate	3/30/2024	2450	589.52	588.20	1.32	280	192	236	0.3	0.0022	155
MW-22I to MW-17I	Intermediate	3/30/2024	2750	592.06	586.94	5.12	126	90	108	0.3	0.0086	245
MW-20I to MW-13I	Intermediate	3/30/2024	1680	586.68	585.35	1.33	96	22	59	0.3	0.0008	57
Geometric Mean (Intermediate)											0.0021	121
MW-3D to MW-10D	Deep	3/30/2024	1880	588.25	585.13	3.12	23	13	18	0.3	0.0017	36
MW-19D to MW-14D	Deep	3/30/2024	1210	586.98	585.49	1.49	109	21	65	0.3	0.0012	97
MW-24D to MW-25D	Deep	3/30/2024	2450	589.69	588.05	1.64	280	192	236	0.3	0.0007	192
MW-22D to MW-17D	Deep	3/30/2024	2750	592.06	587.50	4.56	126	90	108	0.3	0.0017	218
MW-20D to MW-13D	Deep	3/30/2024	1680	586.65	585.28	1.37	96	22	59	0.3	0.0008	59
Geometric Mean (Deep)											0.0011	97
Geometric Mean (All Data)											0.0014	126
Average (All Data)											0.0010	200

Notes:
 Seepage velocity calculation:

$$V = \frac{K(\Delta H / \Delta L)}{n_e} \times 365 \text{ days}$$

- Where:
- 'V = Groundwater flow velocity (ft/year)
 - 'K= Horizontal hydraulic conductivity (ft/day; K Average used for calculation)
 - 'n_e = Assumed effective porosity
 - Δ H = Head difference
 - Δ L = Horizontal distance

*See groundwater elevation contours on Groundwater Flow Maps
 Hydraulic conductivity derived from on-site measurements (see "Summary of Hydraulic Conductivity Results" table)
 Effective porosity derived from literature values (Woessner and Poeter, 2020)
 ft/yr = feet per year
 ft MSL = feet above mean sea level
 ft/day = feet per day
 "-" indicates not measured



Table A-3
Gauging Summary
September 30, 2024
Eagle Valley Generating Station
Atlas Project No. 170AES0001

Well	Date	Time	DTW, from top of Reference Point	Reference Point Elevation (ft MSL)	SWE, ft MSL
MW-1S	9/30/2024	16:52	25.79	612.93	587.14
MW-1I	9/30/2024	16:54	25.02	612.31	587.29
MW-1D	9/30/2024	16:56	25.68	612.91	587.23
MW-2S	9/30/2024	17:02	20.12	608.45	588.33
MW-2I	9/30/2024	12:05	20.66	608.93	588.27
MW-2D	9/30/2024	12:07	20.44	608.72	588.28
MW-3S	9/30/2024	11:40	21.49	610.80	589.31
MW-3I	9/30/2024	11:50	21.88	610.76	588.88
MW-3D	9/30/2024	16:55	22.23	610.28	588.05
MW-4S	9/30/2024	11:27	20.49	609.94	589.45
MW-4I	9/30/2024	11:24	25.32	614.66	589.34
MW-4D	9/30/2024	11:25	25.38	614.72	589.34
MW-6S	9/30/2024	17:17	Dry (18.84)	605.99	<587.15
MW-6I	9/30/2024	16:37	21.44	606.00	584.56
MW-6D	9/30/2024	17:15	20.15	604.85	584.70
MW-7S	9/30/2024	17:15	29.78	616.68	586.90
MW-8S	9/30/2024	11:08	Dry (26.30)	616.67	<590.37
MW-9S	9/30/2024	10:55	Dry (29.01)	617.52	<588.51
MW-9I	9/30/2024	10:46	28.79	617.06	588.27
MW-9D	9/30/2024	10:49	29.09	617.41	588.32
MW-10S	9/30/2024	10:27	Dry (27.89)	613.70	<585.81
MW-10I	9/30/2024	10:23	30.62	613.68	583.06
MW-10D	9/30/2024	10:25	30.45	613.54	583.09
MW-11S	9/30/2024	13:22	Dry (40.33)	627.29	<586.96
MW-11I	9/30/2024	13:23	39.89	627.52	587.63
MW-11D	9/30/2024	13:25	41.01	627.56	586.55
MW-12S	9/30/2024	14:05	Dry (20.49)	607.26	<586.77
MW-12I	9/30/2024	14:03	21.74	607.36	585.62
MW-12D	9/30/2024	14:07	21.76	607.75	585.99
MW-13S	9/30/2024	14:34	22.78	606.03	583.25
MW-13I	9/30/2024	14:30	22.96	606.21	583.25
MW-13D	9/30/2024	14:27	22.68	605.86	583.18
MW-14S	9/30/2024	14:54	24.26	607.39	583.13
MW-14I	9/30/2024	14:56	24.27	607.34	583.07
MW-14D	9/30/2024	14:57	24.28	607.33	583.05
MW-15S	9/30/2024	14:22	22.75	607.50	584.75
MW-15I	9/30/2024	14:23	22.71	607.61	584.90
MW-15D	9/30/2024	14:26	22.69	607.51	584.82
MW-16S	9/30/2024	12:34	20.56	609.54	588.98
MW-16I	9/30/2024	12:35	20.89	609.53	588.64
MW-16D	9/30/2024	12:36	20.94	609.60	588.66
MW-17S	9/30/2024	13:54	15.40	602.20	586.80
MW-17I	9/30/2024	13:55	15.85	602.69	586.84
MW-17D	9/30/2024	13:56	15.53	602.47	586.94
MW-18S	9/30/2024	13:25	20.57	606.13	585.56
MW-18I	9/30/2024	13:27	20.57	605.82	585.25
MW-18D	9/30/2024	13:28	20.62	606.19	585.57
MW-19S	9/30/2024	12:58	18.18	602.85	584.67
MW-19I	9/30/2024	12:59	17.96	602.69	584.73
MW-19D	9/30/2024	13:00	17.91	602.67	584.76
MW-20S	9/30/2024	11:32	29.88	615.00	585.12
MW-20I	9/30/2024	11:36	30.24	614.63	584.39
MW-20D	9/30/2024	11:38	30.75	615.10	584.35
MW-21S	9/30/2024	10:51	15.45	601.34	585.89
MW-21I	9/30/2024	10:52	15.46	601.38	585.92
MW-21D	9/30/2024	10:53	15.42	601.33	585.91
MW-22S	9/30/2024	10:11	18.45	608.49	590.04
MW-22I	9/30/2024	10:12	18.33	608.37	590.04
MW-22D	9/30/2024	10:14	18.40	608.44	590.04
MW-23S	9/30/2024	12:12	15.92	600.74	584.82
MW-23I	9/30/2024	12:11	15.88	600.64	584.76
MW-23D	9/30/2024	12:10	15.90	600.72	584.82
MW-24S	9/30/2024	14:53	17.64	607.72	590.08
MW-24I	9/30/2024	14:55	17.71	607.54	589.83
MW-24D	9/30/2024	14:57	17.83	607.74	589.91
MW-25S	9/30/2024	16:28	14.55	602.88	588.33
MW-25I	9/30/2024	16:30	15.18	603.50	588.32
MW-25D	9/30/2024	16:33	15.22	603.37	588.15
MW-26S	9/30/2024	10:06	32.07	616.14	584.07
MW-26I	9/30/2024	10:04	32.11	616.33	584.22
MW-26D	9/30/2024	10:03	31.95	616.15	584.20

Table A-3
 Gauging Summary
 September 30, 2024
 Eagle Valley Generating Station
 Atlas Project No. 170AES0001

Well	Date	Time	DTW, from top of Reference Point	Reference Point Elevation (ft MSL)	SWE, ft MSL
USGS Gage Station 03354000	9/30/2024	12:00	1.84	594.85	593.01

Notes:
 DTW = Depth to water
 SWE = Static Water Elevation
 ft MSL = feet above Mean Sea Level

TABLE A-4
HORIZONTAL GRADIENT AND SEEPAGE VELOCITY CALCULATIONS - SEPTEMBER 2024
 EAGLE VALLEY GENERATING STATION
 4040 BLUE BLUFF ROAD
 MARTINSVILLE, INDIANA

Points/Area for Calculation	Flow Zone	Gauging Date	Horizontal Distance - Δ L (ft)	Upgradient Water Elevation (ft MSL)	Downgradient Water Elevation (ft MSL)	Head Difference - Δ H (Ft)	K Upgradient Well (ft/day)	K Downgradient Well (ft/day)	K Average (ft/day)	<i>n_e</i>	Hydraulic Gradient - Δ H / Δ L (ft/ft)	Seepage Velocity - V (ft/yr)
MW-4S to MW-7S	Shallow	9/30/2024	670	589.45	586.9	2.55	1091	225	658	0.3	0.0038	3047
MW-18S to MW-14S	Shallow	9/30/2024	1820	585.56	583.13	2.43	83	63	73	0.3	0.0013	119
MW-25S to MW-17S	Shallow	9/30/2024	2450	588.33	586.80	1.53	-	119	119	0.3	0.0006	90
MW22S to MW-21S	Shallow	9/30/2024	1380	590.04	585.89	4.15	78	58	68	0.3	0.0030	249
MW-23S to MW-14S	Shallow	9/30/2024	2910	584.82	583.13	1.69	135	63	99	0.3	0.0006	70
Geometric Mean (Shallow)											0.0014	224
MW-3I to MW-10I	Intermediate	9/30/2024	1880	588.88	583.06	5.82	63	29	46	0.3	0.0031	173
MW-18I to MW-14I	Intermediate	9/30/2024	1820	585.25	583.07	2.18	80	28	54	0.3	0.0012	79
MW-22I to MW-21I	Intermediate	9/30/2024	1380	590.04	585.92	4.12	107	119	113	0.3	0.0070	410
MW-25I to MW-17I	Intermediate	9/30/2024	2450	588.32	586.84	1.48	161	119	140	0.3	0.0025	103
MW-20I to MW-13I	Intermediate	9/30/2024	1680	584.39	583.25	1.14	225	32	128.5	0.3	0.0007	106
Geometric Mean (Intermediate)											0.0021	144
MW-3D to MW-10D	Deep	9/30/2024	1880	588.05	583.09	4.96	23	13	18	0.3	0.0026	58
MW-18D to MW-14D	Deep	9/30/2024	1820	585.57	583.05	2.52	125	21	73	0.3	0.0014	123
MW-25D to MW-17D	Deep	9/30/2024	2450	588.15	586.94	1.21	192	90	141	0.3	0.0005	85
MW-22D to MW-21D	Deep	9/30/2024	1380	590.04	585.91	4.13	126	87	107	0.3	0.0030	388
MW-20D to MW-13D	Deep	9/30/2024	1680	584.35	583.18	1.17	96	22	59	0.3	0.0007	50
Geometric Mean (Deep)											0.0013	103
Geometric Mean (All Data)											0.0016	149
Average (All Data)											0.0013	375

Notes:
 Seepage velocity calculation:

$$V = \frac{K(\Delta H / \Delta L)}{n_e} \times 365 \text{ days}$$

Where:
V = Groundwater flow velocity (ft/year)
K = Horizontal hydraulic conductivity (ft/day; K Average used for calculation)
n_e = Assumed effective porosity
 Δ *H* = Head difference
 Δ *L* = Horizontal distance

*See groundwater elevation contours on Groundwater Flow Maps
 Hydraulic conductivity derived from on-site measurements (see "Summary of Hydraulic Conductivity Results" table)
 Effective porosity derived from literature values (Woessner and Poeter, 2020)
 ft/yr = feet per year
 ft MSL = feet above mean sea level
 ft/day = feet per day
 "-" indicates not measured



Appendix B: Laboratory Certificates of Analyses

October 2023



February 08, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355270

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355270001	MW-17S	Water	10/03/23 10:10	10/03/23 14:45
50355270002	MW-17I	Water	10/03/23 10:45	10/03/23 14:45
50355270003	MW-17D	Water	10/03/23 11:45	10/03/23 14:45
50355270004	MW-18S	Water	10/03/23 12:11	10/03/23 14:45
50355270005	MW-18I	Water	10/03/23 12:45	10/03/23 14:45
50355270006	MW-18D	Water	10/03/23 13:30	10/03/23 14:45
50355270007	DUP-9	Water	10/03/23 08:00	10/03/23 14:45

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355270

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355270001	MW-17S	EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	BEP	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50355270002	MW-17I	EPA 9056	KBB
EPA 6010	ELK			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	CAW			5	PASI-I
EPA 903.1	MAR1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	STS			1	PASI-I
HACH 8146	BEP			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50355270003	MW-17D			EPA 9056	KBB
		EPA 6010	ELK	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355270004	MW-18S	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	BEP	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
SM 4500-H+B	LHZ	1	PASI-I		
SM 4500-S2-D	STS	1	PASI-I		
HACH 8146	BEP	1	PASI-I		
EPA 353.2	DAW	2	PASI-I		
EPA 365.1	YAM	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
50355270005	MW-18I	EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355270

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50355270006	MW-18D	SM 4500-S2-D	STS	1	PASI-I		
		HACH 8146	BEP	1	PASI-I		
		EPA 353.2	DAW	2	PASI-I		
		EPA 365.1	YAM	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		EPA 9056	KBB	3	PASI-I		
		EPA 6010	ELK	11	PASI-I		
		EPA 6010	MTM	2	PASI-I		
		EPA 6020	CAW	5	PASI-I		
		EPA 903.1	MAR1	1	PASI-PA		
		EPA 904.0	ZPC	1	PASI-PA		
		Total Radium Calculation	JAL	1	PASI-PA		
		SM 2320B	DAW	3	PASI-I		
		SM 2540C	IRH	1	PASI-I		
		SM 4500-H+B	LHZ	1	PASI-I		
		SM 4500-S2-D	STS	1	PASI-I		
		HACH 8146	BEP	1	PASI-I		
		50355270007	DUP-9	EPA 353.2	DAW	2	PASI-I
				EPA 365.1	YAM	1	PASI-I
SM 5310C	ATS			1	PASI-I		
SM 5310C	ATS			1	PASI-I		
EPA 9056	KBB			3	PASI-I		
EPA 6010	ELK			11	PASI-I		
EPA 6010	MTM			2	PASI-I		
EPA 6020	CAW			5	PASI-I		
EPA 903.1	MAR1			1	PASI-PA		
EPA 904.0	ZPC			1	PASI-PA		
Total Radium Calculation	JAL			1	PASI-PA		
SM 2320B	DAW			3	PASI-I		
SM 2540C	IRH			1	PASI-I		
SM 4500-H+B	LHZ			1	PASI-I		
SM 4500-S2-D	STS			1	PASI-I		
HACH 8146	BEP			1	PASI-I		
EPA 353.2	DAW			2	PASI-I		
EPA 365.1	YAM			1	PASI-I		
SM 5310C	ATS			1	PASI-I		

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355270001	MW-17S					
EPA 9056	Chloride	37.2	mg/L	2.5	10/13/23 22:22	
EPA 9056	Fluoride	0.13	mg/L	0.10	10/13/23 22:05	
EPA 9056	Sulfate	27.6	mg/L	0.25	10/13/23 22:05	
EPA 6010	Boron	286	ug/L	100	10/10/23 15:51	
EPA 6010	Calcium	101000	ug/L	1000	10/10/23 15:51	
EPA 6010	Magnesium	22800	ug/L	1000	10/10/23 15:51	
EPA 6010	Molybdenum	14.7	ug/L	10.0	10/10/23 15:51	
EPA 6010	Potassium	3500	ug/L	1000	10/10/23 15:51	
EPA 6010	Silica	11700	ug/L	450	10/10/23 15:51	N2
EPA 6010	Sodium	28700	ug/L	1000	10/10/23 15:51	
EPA 6010	Molybdenum, Dissolved	13.1	ug/L	10.0	10/17/23 15:14	
EPA 6020	Barium	106	ug/L	1.0	10/05/23 09:24	
EPA 903.1	Radium-226	-0.0680 ± 0.442 (0.959)	pCi/L		10/19/23 13:00	
EPA 904.0	Radium-228	C:NA T:93% 0.227 ± 0.402 (0.878)	pCi/L		10/18/23 11:43	
		C:79% T:83%				
Total Radium Calculation	Total Radium	0.227 ± 0.844 (1.84)	pCi/L		10/20/23 16:34	
SM 2320B	Alkalinity, Total as CaCO3	305	mg/L	10.0	10/03/23 21:01	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	305	mg/L	10.0	10/03/23 21:01	
SM 2540C	Total Dissolved Solids	410	mg/L	10.0	10/10/23 14:17	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	10/17/23 13:50	H3
EPA 353.2	Nitrogen, Nitrate	2.1	mg/L	0.10	10/03/23 21:27	
SM 5310C	Total Organic Carbon	2.0	mg/L	1.0	10/12/23 16:48	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/12/23 05:48	
50355270002	MW-17I					
EPA 9056	Chloride	42.8	mg/L	2.5	10/13/23 23:29	
EPA 9056	Sulfate	30.8	mg/L	0.25	10/13/23 23:12	
EPA 6010	Boron	386	ug/L	100	10/10/23 15:54	
EPA 6010	Calcium	85800	ug/L	1000	10/10/23 15:54	
EPA 6010	Magnesium	22100	ug/L	1000	10/10/23 15:54	
EPA 6010	Potassium	2320	ug/L	1000	10/10/23 15:54	
EPA 6010	Silica	10900	ug/L	450	10/10/23 15:54	N2
EPA 6010	Sodium	31700	ug/L	1000	10/10/23 15:54	
EPA 6020	Barium	50.9	ug/L	1.0	10/05/23 09:27	
EPA 903.1	Radium-226	0.457 ± 0.562 (0.916)	pCi/L		10/19/23 13:00	
EPA 904.0	Radium-228	C:NA T:86% 0.429 ± 0.384 (0.782)	pCi/L		10/18/23 11:43	
		C:79% T:85%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355270002	MW-17I					
Total Radium Calculation	Total Radium	0.886 ± 0.946 (1.70)	pCi/L		10/20/23 16:34	
SM 2320B	Alkalinity, Total as CaCO3	263	mg/L	10.0	10/03/23 21:01	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	263	mg/L	10.0	10/03/23 21:01	
SM 2540C	Total Dissolved Solids	385	mg/L	10.0	10/10/23 14:17	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/17/23 13:51	H3
EPA 353.2	Nitrogen, Nitrate	0.95	mg/L	0.10	10/03/23 21:18	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	10/12/23 16:58	
SM 5310C	Dissolved Organic Carbon	1.1	mg/L	1.0	10/12/23 06:07	
50355270003	MW-17D					
EPA 9056	Chloride	58.7	mg/L	2.5	10/14/23 00:03	
EPA 9056	Sulfate	91.9	mg/L	2.5	10/14/23 00:03	
EPA 6010	Boron	2860	ug/L	100	10/10/23 15:56	
EPA 6010	Calcium	92100	ug/L	1000	10/10/23 15:56	
EPA 6010	Iron	2600	ug/L	100	10/10/23 15:56	
EPA 6010	Lithium	40.2	ug/L	20.0	10/10/23 15:56	
EPA 6010	Magnesium	25100	ug/L	1000	10/10/23 15:56	
EPA 6010	Manganese	345	ug/L	10.0	10/10/23 15:56	
EPA 6010	Molybdenum	28.7	ug/L	10.0	10/10/23 15:56	
EPA 6010	Potassium	3290	ug/L	1000	10/10/23 15:56	
EPA 6010	Silica	13400	ug/L	450	10/10/23 15:56	N2
EPA 6010	Sodium	52400	ug/L	1000	10/10/23 15:56	
EPA 6010	Manganese, Dissolved	265	ug/L	10.0	10/17/23 15:17	
EPA 6010	Molybdenum, Dissolved	25.5	ug/L	10.0	10/17/23 15:17	
EPA 6020	Arsenic	6.0	ug/L	1.0	10/05/23 09:30	
EPA 6020	Barium	57.0	ug/L	1.0	10/05/23 09:30	
EPA 903.1	Radium-226	1.02 ± 0.677 (0.891)	pCi/L		10/19/23 13:00	
EPA 904.0	Radium-228	1.02 ± 0.493 (0.865) C:79% T:78%	pCi/L		10/18/23 11:43	
Total Radium Calculation	Total Radium	2.04 ± 1.17 (1.76)	pCi/L		10/20/23 16:34	
SM 2320B	Alkalinity, Total as CaCO3	248	mg/L	10.0	10/03/23 21:01	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	10/03/23 21:01	
SM 2540C	Total Dissolved Solids	481	mg/L	10.0	10/10/23 14:17	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/17/23 13:51	H3
EPA 365.1	Phosphate as P04	0.24	mg/L	0.15	10/12/23 19:59	
SM 5310C	Total Organic Carbon	1.1	mg/L	1.0	10/12/23 17:27	
50355270004	MW-18S					
EPA 9056	Chloride	36.1	mg/L	2.5	10/14/23 00:37	
EPA 9056	Fluoride	0.19	mg/L	0.10	10/14/23 00:20	
EPA 9056	Sulfate	26.2	mg/L	0.25	10/14/23 00:20	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355270

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355270004	MW-18S					
EPA 6010	Calcium	60600	ug/L	1000	10/10/23 15:59	
EPA 6010	Magnesium	13600	ug/L	1000	10/10/23 15:59	
EPA 6010	Molybdenum	22.8	ug/L	10.0	10/10/23 15:59	
EPA 6010	Potassium	2090	ug/L	1000	10/10/23 15:59	
EPA 6010	Silica	7180	ug/L	450	10/10/23 15:59	N2
EPA 6010	Sodium	26000	ug/L	1000	10/10/23 15:59	
EPA 6010	Molybdenum, Dissolved	21.7	ug/L	10.0	10/17/23 15:18	
EPA 6020	Barium	25.8	ug/L	1.0	10/05/23 09:40	
EPA 903.1	Radium-226	0.307 ± 0.468 (0.806)	pCi/L		10/19/23 13:00	
EPA 904.0	Radium-228	C:NA T:94% 0.493 ± 0.434 (0.886)	pCi/L		10/18/23 11:43	
		C:76% T:81%				
Total Radium Calculation	Total Radium	0.800 ± 0.902 (1.69)	pCi/L		10/20/23 16:34	
SM 2320B	Alkalinity, Total as CaCO3	177	mg/L	10.0	10/03/23 21:01	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	177	mg/L	10.0	10/03/23 21:01	
SM 2540C	Total Dissolved Solids	273	mg/L	10.0	10/10/23 14:17	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/17/23 13:52	H3
EPA 353.2	Nitrogen, Nitrate	0.65	mg/L	0.10	10/03/23 21:21	
SM 5310C	Total Organic Carbon	1.5	mg/L	1.0	10/12/23 17:37	
SM 5310C	Dissolved Organic Carbon	1.8	mg/L	1.0	10/13/23 18:50	
50355270005	MW-18I					
EPA 9056	Chloride	37.1	mg/L	2.5	10/14/23 01:11	
EPA 9056	Fluoride	0.13	mg/L	0.10	10/14/23 00:54	
EPA 9056	Sulfate	26.9	mg/L	0.25	10/14/23 00:54	
EPA 6010	Boron	145	ug/L	100	10/10/23 16:01	
EPA 6010	Calcium	65000	ug/L	1000	10/10/23 16:01	
EPA 6010	Lithium	23.1	ug/L	20.0	10/10/23 16:01	
EPA 6010	Magnesium	16100	ug/L	1000	10/10/23 16:01	
EPA 6010	Manganese	31.3	ug/L	10.0	10/10/23 16:01	
EPA 6010	Molybdenum	81.5	ug/L	10.0	10/10/23 16:01	
EPA 6010	Potassium	3820	ug/L	1000	10/10/23 16:01	
EPA 6010	Silica	9730	ug/L	450	10/10/23 16:01	N2
EPA 6010	Sodium	24800	ug/L	1000	10/10/23 16:01	
EPA 6010	Molybdenum, Dissolved	75.2	ug/L	10.0	10/17/23 15:20	
EPA 6020	Barium	53.9	ug/L	1.0	10/05/23 09:44	
EPA 6020	Selenium	2.9	ug/L	1.0	10/05/23 09:44	
EPA 903.1	Radium-226	0.000 ± 0.546 (1.09)	pCi/L		10/19/23 13:00	
		C:NA T:94%				

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355270005	MW-18I					
EPA 904.0	Radium-228	0.288 ± 0.339 (0.714) C:78% T:86%	pCi/L		10/18/23 11:44	
Total Radium Calculation	Total Radium	0.288 ± 0.885 (1.80)	pCi/L		10/20/23 16:34	
SM 2320B	Alkalinity, Total as CaCO3	183	mg/L	10.0	10/03/23 21:01	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	183	mg/L	10.0	10/03/23 21:01	
SM 2540C	Total Dissolved Solids	289	mg/L	10.0	10/10/23 14:17	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/17/23 13:52	H3
EPA 353.2	Nitrogen, Nitrate	1.5	mg/L	0.10	10/03/23 21:23	
EPA 365.1	Phosphate as P04	0.20	mg/L	0.15	10/12/23 20:00	
SM 5310C	Total Organic Carbon	1.1	mg/L	1.0	10/12/23 17:47	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	10/13/23 19:00	
50355270006	MW-18D					
EPA 9056	Chloride	78.0	mg/L	2.5	10/14/23 01:44	
EPA 9056	Fluoride	0.11	mg/L	0.10	10/14/23 01:28	
EPA 9056	Sulfate	69.0	mg/L	2.5	10/14/23 01:44	
EPA 6010	Aluminum	215	ug/L	200	10/10/23 16:04	
EPA 6010	Boron	2170	ug/L	100	10/10/23 16:04	
EPA 6010	Calcium	85900	ug/L	1000	10/10/23 16:04	
EPA 6010	Iron	1300	ug/L	100	10/10/23 16:04	
EPA 6010	Lithium	87.7	ug/L	20.0	10/10/23 16:04	
EPA 6010	Magnesium	17200	ug/L	1000	10/10/23 16:04	
EPA 6010	Manganese	402	ug/L	10.0	10/10/23 16:04	
EPA 6010	Molybdenum	168	ug/L	10.0	10/10/23 16:04	
EPA 6010	Potassium	6490	ug/L	1000	10/10/23 16:04	
EPA 6010	Silica	12900	ug/L	450	10/10/23 16:04	N2
EPA 6010	Sodium	58300	ug/L	1000	10/10/23 16:04	
EPA 6010	Manganese, Dissolved	299	ug/L	10.0	10/17/23 15:21	
EPA 6010	Molybdenum, Dissolved	156	ug/L	10.0	10/17/23 15:21	
EPA 6020	Arsenic	2.0	ug/L	1.0	10/05/23 09:47	
EPA 6020	Barium	67.8	ug/L	1.0	10/05/23 09:47	
EPA 903.1	Radium-226	0.000 ± 0.658 (1.31) C:NA T:91%	pCi/L		10/19/23 13:00	
EPA 904.0	Radium-228	0.969 ± 0.488 (0.879) C:82% T:77%	pCi/L		10/18/23 11:45	
Total Radium Calculation	Total Radium	0.969 ± 1.15 (2.19)	pCi/L		10/20/23 16:34	
SM 2320B	Alkalinity, Total as CaCO3	225	mg/L	10.0	10/03/23 21:01	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	225	mg/L	10.0	10/03/23 21:01	
SM 2540C	Total Dissolved Solids	474	mg/L	10.0	10/10/23 14:18	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/17/23 13:53	H3

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355270

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355270006	MW-18D					
EPA 353.2	Nitrogen, Nitrate	0.84	mg/L	0.10	10/03/23 21:25	
EPA 365.1	Phosphate as P04	0.17	mg/L	0.15	10/12/23 20:00	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/13/23 19:09	
50355270007	DUP-9					
EPA 9056	Chloride	38.2	mg/L	2.5	10/14/23 02:52	
EPA 9056	Fluoride	0.14	mg/L	0.10	10/14/23 02:35	
EPA 9056	Sulfate	3110	mg/L	25.0	10/14/23 03:09	
EPA 6010	Boron	147	ug/L	100	10/10/23 16:06	
EPA 6010	Calcium	65000	ug/L	1000	10/10/23 16:06	
EPA 6010	Lithium	25.2	ug/L	20.0	10/10/23 16:06	
EPA 6010	Magnesium	16000	ug/L	1000	10/10/23 16:06	
EPA 6010	Manganese	29.3	ug/L	10.0	10/10/23 16:06	
EPA 6010	Molybdenum	80.8	ug/L	10.0	10/10/23 16:06	
EPA 6010	Potassium	3740	ug/L	1000	10/10/23 16:06	
EPA 6010	Silica	9620	ug/L	450	10/10/23 16:06	N2
EPA 6010	Sodium	24400	ug/L	1000	10/10/23 16:06	
EPA 6010	Molybdenum, Dissolved	72.3	ug/L	10.0	10/17/23 15:23	
EPA 6020	Barium	53.4	ug/L	1.0	10/05/23 09:51	
EPA 6020	Selenium	2.8	ug/L	1.0	10/05/23 09:51	
EPA 903.1	Radium-226	1.05 ± 0.799 (1.19) C:NA T:95%	pCi/L		10/19/23 13:00	
EPA 904.0	Radium-228	0.386 ± 0.391 (0.814) C:80% T:83%	pCi/L		10/18/23 11:45	
Total Radium Calculation	Total Radium	1.44 ± 1.19 (2.00)	pCi/L		10/20/23 16:34	
SM 2320B	Alkalinity, Total as CaCO3	114	mg/L	10.0	10/03/23 21:01	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	114	mg/L	10.0	10/03/23 21:01	
SM 2540C	Total Dissolved Solids	314	mg/L	10.0	10/10/23 14:18	
SM 4500-H+B	pH at 25 Degrees C	1.7	Std. Units	0.10	10/17/23 13:54	H3,PO
EPA 353.2	Nitrogen, Nitrate	1.9	mg/L	0.10	10/03/23 21:08	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	10/12/23 18:06	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/13/23 19:19	

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355270

Sample: MW-17S Lab ID: 50355270001 Collected: 10/03/23 10:10 Received: 10/03/23 14:45 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Chloride	37.2	mg/L	2.5	0.67	10		10/13/23 22:22	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.017	1		10/13/23 22:05	16984-48-8	
Sulfate	27.6	mg/L	0.25	0.19	1		10/13/23 22:05	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	42.2	1	10/05/23 15:38	10/10/23 15:51	7429-90-5	
Boron	286	ug/L	100	12.3	1	10/05/23 15:38	10/10/23 15:51	7440-42-8	
Calcium	101000	ug/L	1000	143	1	10/05/23 15:38	10/10/23 15:51	7440-70-2	
Iron	ND	ug/L	100	28.6	1	10/05/23 15:38	10/10/23 15:51	7439-89-6	
Lithium	ND	ug/L	20.0	6.2	1	10/05/23 15:38	10/10/23 15:51	7439-93-2	
Magnesium	22800	ug/L	1000	45.6	1	10/05/23 15:38	10/10/23 15:51	7439-95-4	
Manganese	ND	ug/L	10.0	2.8	1	10/05/23 15:38	10/10/23 15:51	7439-96-5	
Molybdenum	14.7	ug/L	10.0	1.2	1	10/05/23 15:38	10/10/23 15:51	7439-98-7	
Potassium	3500	ug/L	1000	219	1	10/05/23 15:38	10/10/23 15:51	7440-09-7	
Silica	11700	ug/L	450		1	10/05/23 15:38	10/10/23 15:51	7631-86-9	N2
Sodium	28700	ug/L	1000	288	1	10/05/23 15:38	10/10/23 15:51	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:14	7439-96-5	
Molybdenum, Dissolved	13.1	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:14	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/04/23 15:11	10/05/23 09:24	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/04/23 15:11	10/05/23 09:24	7440-38-2	
Barium	106	ug/L	1.0	0.077	1	10/04/23 15:11	10/05/23 09:24	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/04/23 15:11	10/05/23 09:24	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/04/23 15:11	10/05/23 09:24	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	305	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Bicarbonate (CaCO3)	305	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/03/23 21:01		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	410	mg/L	10.0	10.0	1		10/10/23 14:17		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.9	Std. Units	0.10	0.10	1		10/17/23 13:50		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-17S		Lab ID: 50355270001		Collected: 10/03/23 10:10	Received: 10/03/23 14:45	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:43	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	2.1	mg/L	0.10	0.011	1		10/03/23 21:27	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/03/23 21:27	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 12:00	10/12/23 19:57			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.0	mg/L	1.0	0.24	1		10/12/23 16:48	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/12/23 05:48			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-17I		Lab ID: 50355270002		Collected: 10/03/23 10:45	Received: 10/03/23 14:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	42.8	mg/L	2.5	0.67	10		10/13/23 23:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 23:12	16984-48-8	
Sulfate	30.8	mg/L	0.25	0.19	1		10/13/23 23:12	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	42.2	1	10/05/23 15:38	10/10/23 15:54	7429-90-5	
Boron	386	ug/L	100	12.3	1	10/05/23 15:38	10/10/23 15:54	7440-42-8	
Calcium	85800	ug/L	1000	143	1	10/05/23 15:38	10/10/23 15:54	7440-70-2	
Iron	ND	ug/L	100	28.6	1	10/05/23 15:38	10/10/23 15:54	7439-89-6	
Lithium	ND	ug/L	20.0	6.2	1	10/05/23 15:38	10/10/23 15:54	7439-93-2	
Magnesium	22100	ug/L	1000	45.6	1	10/05/23 15:38	10/10/23 15:54	7439-95-4	
Manganese	ND	ug/L	10.0	2.8	1	10/05/23 15:38	10/10/23 15:54	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.2	1	10/05/23 15:38	10/10/23 15:54	7439-98-7	
Potassium	2320	ug/L	1000	219	1	10/05/23 15:38	10/10/23 15:54	7440-09-7	
Silica	10900	ug/L	450		1	10/05/23 15:38	10/10/23 15:54	7631-86-9	N2
Sodium	31700	ug/L	1000	288	1	10/05/23 15:38	10/10/23 15:54	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:15	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:15	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.49	1	10/04/23 15:11	10/05/23 09:27	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/04/23 15:11	10/05/23 09:27	7440-38-2	
Barium	50.9	ug/L	1.0	0.077	1	10/04/23 15:11	10/05/23 09:27	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/04/23 15:11	10/05/23 09:27	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/04/23 15:11	10/05/23 09:27	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	263	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Bicarbonate (CaCO3)	263	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/03/23 21:01		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	385	mg/L	10.0	10.0	1		10/10/23 14:17		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.1	Std. Units	0.10	0.10	1		10/17/23 13:51		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-17I		Lab ID: 50355270002		Collected: 10/03/23 10:45	Received: 10/03/23 14:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:43	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	0.95	mg/L	0.10	0.011	1		10/03/23 21:18	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/03/23 21:18	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 12:00	10/12/23 19:58		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	1.4	mg/L	1.0	0.24	1		10/12/23 16:58	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.1	mg/L	1.0	0.24	1		10/12/23 06:07		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355270

Sample: MW-17D Lab ID: 50355270003 Collected: 10/03/23 11:45 Received: 10/03/23 14:45 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Chloride	58.7	mg/L	2.5	0.67	10		10/14/23 00:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 23:46	16984-48-8	
Sulfate	91.9	mg/L	2.5	1.9	10		10/14/23 00:03	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	42.2	1	10/05/23 15:38	10/10/23 15:56	7429-90-5	
Boron	2860	ug/L	100	12.3	1	10/05/23 15:38	10/10/23 15:56	7440-42-8	
Calcium	92100	ug/L	1000	143	1	10/05/23 15:38	10/10/23 15:56	7440-70-2	
Iron	2600	ug/L	100	28.6	1	10/05/23 15:38	10/10/23 15:56	7439-89-6	
Lithium	40.2	ug/L	20.0	6.2	1	10/05/23 15:38	10/10/23 15:56	7439-93-2	
Magnesium	25100	ug/L	1000	45.6	1	10/05/23 15:38	10/10/23 15:56	7439-95-4	
Manganese	345	ug/L	10.0	2.8	1	10/05/23 15:38	10/10/23 15:56	7439-96-5	
Molybdenum	28.7	ug/L	10.0	1.2	1	10/05/23 15:38	10/10/23 15:56	7439-98-7	
Potassium	3290	ug/L	1000	219	1	10/05/23 15:38	10/10/23 15:56	7440-09-7	
Silica	13400	ug/L	450		1	10/05/23 15:38	10/10/23 15:56	7631-86-9	N2
Sodium	52400	ug/L	1000	288	1	10/05/23 15:38	10/10/23 15:56	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Manganese, Dissolved	265	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:17	7439-96-5	
Molybdenum, Dissolved	25.5	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:17	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/04/23 15:11	10/05/23 09:30	7440-36-0	
Arsenic	6.0	ug/L	1.0	0.075	1	10/04/23 15:11	10/05/23 09:30	7440-38-2	
Barium	57.0	ug/L	1.0	0.077	1	10/04/23 15:11	10/05/23 09:30	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/04/23 15:11	10/05/23 09:30	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/04/23 15:11	10/05/23 09:30	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	248	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/03/23 21:01		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	481	mg/L	10.0	10.0	1		10/10/23 14:17		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	0.10	1		10/17/23 13:51		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-17D		Lab ID: 50355270003		Collected: 10/03/23 11:45	Received: 10/03/23 14:45	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:44	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/03/23 21:19	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/03/23 21:19	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.24	mg/L	0.15	0.15	1	10/12/23 12:00	10/12/23 19:59			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.1	mg/L	1.0	0.24	1		10/12/23 17:27	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	1.0	0.24	1		10/12/23 06:39			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-18S		Lab ID: 50355270004		Collected: 10/03/23 12:11	Received: 10/03/23 14:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	36.1	mg/L	2.5	0.67	10		10/14/23 00:37	16887-00-6	
Fluoride	0.19	mg/L	0.10	0.017	1		10/14/23 00:20	16984-48-8	
Sulfate	26.2	mg/L	0.25	0.19	1		10/14/23 00:20	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	42.2	1	10/05/23 15:38	10/10/23 15:59	7429-90-5	
Boron	ND	ug/L	100	12.3	1	10/05/23 15:38	10/10/23 15:59	7440-42-8	
Calcium	60600	ug/L	1000	143	1	10/05/23 15:38	10/10/23 15:59	7440-70-2	
Iron	ND	ug/L	100	28.6	1	10/05/23 15:38	10/10/23 15:59	7439-89-6	
Lithium	ND	ug/L	20.0	6.2	1	10/05/23 15:38	10/10/23 15:59	7439-93-2	
Magnesium	13600	ug/L	1000	45.6	1	10/05/23 15:38	10/10/23 15:59	7439-95-4	
Manganese	ND	ug/L	10.0	2.8	1	10/05/23 15:38	10/10/23 15:59	7439-96-5	
Molybdenum	22.8	ug/L	10.0	1.2	1	10/05/23 15:38	10/10/23 15:59	7439-98-7	
Potassium	2090	ug/L	1000	219	1	10/05/23 15:38	10/10/23 15:59	7440-09-7	
Silica	7180	ug/L	450		1	10/05/23 15:38	10/10/23 15:59	7631-86-9	N2
Sodium	26000	ug/L	1000	288	1	10/05/23 15:38	10/10/23 15:59	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:18	7439-96-5	
Molybdenum, Dissolved	21.7	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:18	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.49	1	10/04/23 15:11	10/05/23 09:40	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/04/23 15:11	10/05/23 09:40	7440-38-2	
Barium	25.8	ug/L	1.0	0.077	1	10/04/23 15:11	10/05/23 09:40	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/04/23 15:11	10/05/23 09:40	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/04/23 15:11	10/05/23 09:40	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	177	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Bicarbonate (CaCO3)	177	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/03/23 21:01		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	273	mg/L	10.0	10.0	1		10/10/23 14:17		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/17/23 13:52		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-18S		Lab ID: 50355270004		Collected: 10/03/23 12:11	Received: 10/03/23 14:45	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:44	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	0.65	mg/L	0.10	0.011	1		10/03/23 21:21	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/03/23 21:21	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 12:00	10/12/23 19:59			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.5	mg/L	1.0	0.24	1		10/12/23 17:37	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.8	mg/L	1.0	0.24	1		10/13/23 18:50			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355270

Sample: MW-181 Lab ID: 50355270005 Collected: 10/03/23 12:45 Received: 10/03/23 14:45 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Chloride	37.1	mg/L	2.5	0.67	10		10/14/23 01:11	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.017	1		10/14/23 00:54	16984-48-8	
Sulfate	26.9	mg/L	0.25	0.19	1		10/14/23 00:54	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	42.2	1	10/05/23 15:38	10/10/23 16:01	7429-90-5	
Boron	145	ug/L	100	12.3	1	10/05/23 15:38	10/10/23 16:01	7440-42-8	
Calcium	65000	ug/L	1000	143	1	10/05/23 15:38	10/10/23 16:01	7440-70-2	
Iron	ND	ug/L	100	28.6	1	10/05/23 15:38	10/10/23 16:01	7439-89-6	
Lithium	23.1	ug/L	20.0	6.2	1	10/05/23 15:38	10/10/23 16:01	7439-93-2	
Magnesium	16100	ug/L	1000	45.6	1	10/05/23 15:38	10/10/23 16:01	7439-95-4	
Manganese	31.3	ug/L	10.0	2.8	1	10/05/23 15:38	10/10/23 16:01	7439-96-5	
Molybdenum	81.5	ug/L	10.0	1.2	1	10/05/23 15:38	10/10/23 16:01	7439-98-7	
Potassium	3820	ug/L	1000	219	1	10/05/23 15:38	10/10/23 16:01	7440-09-7	
Silica	9730	ug/L	450		1	10/05/23 15:38	10/10/23 16:01	7631-86-9	N2
Sodium	24800	ug/L	1000	288	1	10/05/23 15:38	10/10/23 16:01	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:20	7439-96-5	
Molybdenum, Dissolved	75.2	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:20	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/04/23 15:11	10/05/23 09:44	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/04/23 15:11	10/05/23 09:44	7440-38-2	
Barium	53.9	ug/L	1.0	0.077	1	10/04/23 15:11	10/05/23 09:44	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/04/23 15:11	10/05/23 09:44	7440-48-4	
Selenium	2.9	ug/L	1.0	0.20	1	10/04/23 15:11	10/05/23 09:44	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	183	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Bicarbonate (CaCO3)	183	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/03/23 21:01		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	289	mg/L	10.0	10.0	1		10/10/23 14:17		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/17/23 13:52		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-18I		Lab ID: 50355270005		Collected: 10/03/23 12:45	Received: 10/03/23 14:45	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:44	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	1.5	mg/L	0.10	0.011	1		10/03/23 21:23	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/03/23 21:23	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.20	mg/L	0.15	0.15	1	10/12/23 12:00	10/12/23 20:00			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.1	mg/L	1.0	0.24	1		10/12/23 17:47	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.3	mg/L	1.0	0.24	1		10/13/23 19:00			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-18D		Lab ID: 50355270006		Collected: 10/03/23 13:30		Received: 10/03/23 14:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	78.0	mg/L	2.5	0.67	10		10/14/23 01:44	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.017	1		10/14/23 01:28	16984-48-8	
Sulfate	69.0	mg/L	2.5	1.9	10		10/14/23 01:44	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	215	ug/L	200	42.2	1	10/05/23 15:38	10/10/23 16:04	7429-90-5	
Boron	2170	ug/L	100	12.3	1	10/05/23 15:38	10/10/23 16:04	7440-42-8	
Calcium	85900	ug/L	1000	143	1	10/05/23 15:38	10/10/23 16:04	7440-70-2	
Iron	1300	ug/L	100	28.6	1	10/05/23 15:38	10/10/23 16:04	7439-89-6	
Lithium	87.7	ug/L	20.0	6.2	1	10/05/23 15:38	10/10/23 16:04	7439-93-2	
Magnesium	17200	ug/L	1000	45.6	1	10/05/23 15:38	10/10/23 16:04	7439-95-4	
Manganese	402	ug/L	10.0	2.8	1	10/05/23 15:38	10/10/23 16:04	7439-96-5	
Molybdenum	168	ug/L	10.0	1.2	1	10/05/23 15:38	10/10/23 16:04	7439-98-7	
Potassium	6490	ug/L	1000	219	1	10/05/23 15:38	10/10/23 16:04	7440-09-7	
Silica	12900	ug/L	450		1	10/05/23 15:38	10/10/23 16:04	7631-86-9	N2
Sodium	58300	ug/L	1000	288	1	10/05/23 15:38	10/10/23 16:04	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	299	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:21	7439-96-5	
Molybdenum, Dissolved	156	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:21	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/04/23 15:11	10/05/23 09:47	7440-36-0	
Arsenic	2.0	ug/L	1.0	0.075	1	10/04/23 15:11	10/05/23 09:47	7440-38-2	
Barium	67.8	ug/L	1.0	0.077	1	10/04/23 15:11	10/05/23 09:47	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/04/23 15:11	10/05/23 09:47	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/04/23 15:11	10/05/23 09:47	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	225	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Bicarbonate (CaCO3)	225	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/03/23 21:01		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	474	mg/L	10.0	10.0	1		10/10/23 14:18		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/17/23 13:53		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-18D		Lab ID: 50355270006		Collected: 10/03/23 13:30	Received: 10/03/23 14:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:45	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	0.84	mg/L	0.10	0.011	1		10/03/23 21:25	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/03/23 21:25	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	0.17	mg/L	0.15	0.15	1	10/12/23 12:00	10/12/23 20:00		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/12/23 17:57	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/13/23 19:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: DUP-9		Lab ID: 50355270007		Collected: 10/03/23 08:00	Received: 10/03/23 14:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	38.2	mg/L	2.5	0.67	10		10/14/23 02:52	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.017	1		10/14/23 02:35	16984-48-8	
Sulfate	3110	mg/L	25.0	19.0	100		10/14/23 03:09	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	42.2	1	10/05/23 15:38	10/10/23 16:06	7429-90-5	
Boron	147	ug/L	100	12.3	1	10/05/23 15:38	10/10/23 16:06	7440-42-8	
Calcium	65000	ug/L	1000	143	1	10/05/23 15:38	10/10/23 16:06	7440-70-2	
Iron	ND	ug/L	100	28.6	1	10/05/23 15:38	10/10/23 16:06	7439-89-6	
Lithium	25.2	ug/L	20.0	6.2	1	10/05/23 15:38	10/10/23 16:06	7439-93-2	
Magnesium	16000	ug/L	1000	45.6	1	10/05/23 15:38	10/10/23 16:06	7439-95-4	
Manganese	29.3	ug/L	10.0	2.8	1	10/05/23 15:38	10/10/23 16:06	7439-96-5	
Molybdenum	80.8	ug/L	10.0	1.2	1	10/05/23 15:38	10/10/23 16:06	7439-98-7	
Potassium	3740	ug/L	1000	219	1	10/05/23 15:38	10/10/23 16:06	7440-09-7	
Silica	9620	ug/L	450		1	10/05/23 15:38	10/10/23 16:06	7631-86-9	N2
Sodium	24400	ug/L	1000	288	1	10/05/23 15:38	10/10/23 16:06	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:23	7439-96-5	
Molybdenum, Dissolved	72.3	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:23	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.49	1	10/04/23 15:11	10/05/23 09:51	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/04/23 15:11	10/05/23 09:51	7440-38-2	
Barium	53.4	ug/L	1.0	0.077	1	10/04/23 15:11	10/05/23 09:51	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/04/23 15:11	10/05/23 09:51	7440-48-4	
Selenium	2.8	ug/L	1.0	0.20	1	10/04/23 15:11	10/05/23 09:51	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	114	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Bicarbonate (CaCO3)	114	mg/L	10.0	10.0	1		10/03/23 21:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/03/23 21:01		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	314	mg/L	10.0	10.0	1		10/10/23 14:18		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	1.7	Std. Units	0.10	0.10	1		10/17/23 13:54		H3,PO

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: DUP-9		Lab ID: 50355270007		Collected: 10/03/23 08:00	Received: 10/03/23 14:45	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:43	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	1.9	mg/L	0.10	0.011	1		10/03/23 21:08	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/03/23 21:08	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 12:00	10/12/23 20:01			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.4	mg/L	1.0	0.24	1		10/12/23 18:06	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/13/23 19:19			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	757163	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007		

METHOD BLANK: 3470086 Matrix: Water
 Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/13/23 10:57	
Fluoride	mg/L	ND	0.10	0.017	10/13/23 10:57	
Sulfate	mg/L	ND	0.25	0.19	10/13/23 10:57	

LABORATORY CONTROL SAMPLE: 3470087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	97	80-120	
Fluoride	mg/L	1	1.1	106	80-120	
Sulfate	mg/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470088 3470089

Parameter	Units	50355430002		3470088		3470089		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	10.9	25	25	33.1	33.4	89	90	80-120	1	15		
Fluoride	mg/L	ND	1	1	1.0	1.0	99	100	80-120	1	15		
Sulfate	mg/L	22.6	5	5	27.4	28.0	96	108	80-120	2	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	755652	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

METHOD BLANK: 3463111 Matrix: Water

Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	42.2	10/10/23 15:20	
Boron	ug/L	ND	100	12.3	10/10/23 15:20	
Calcium	ug/L	ND	1000	143	10/10/23 15:20	
Iron	ug/L	ND	100	28.6	10/10/23 15:20	
Lithium	ug/L	ND	20.0	6.2	10/10/23 15:20	
Magnesium	ug/L	ND	1000	45.6	10/10/23 15:20	
Manganese	ug/L	ND	10.0	2.8	10/10/23 15:20	
Molybdenum	ug/L	ND	10.0	1.2	10/10/23 15:20	
Potassium	ug/L	ND	1000	219	10/10/23 15:20	
Silica	ug/L	ND	450		10/10/23 15:20	N2
Sodium	ug/L	ND	1000	288	10/10/23 15:20	

LABORATORY CONTROL SAMPLE: 3463112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	80-120	
Boron	ug/L	1000	1020	102	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Iron	ug/L	10000	10200	102	80-120	
Lithium	ug/L	1000	1030	103	80-120	
Magnesium	ug/L	10000	10100	101	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Molybdenum	ug/L	1000	1060	106	80-120	
Potassium	ug/L	10000	10300	103	80-120	
Silica	ug/L	10700	10800	101	80-120	N2
Sodium	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463113 3463114

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Spike Conc.	Result	Spike Conc.	Result							
Aluminum	ug/L	ND	10000	10000	10200	10100	101	101	75-125	0	20	
Boron	ug/L	355	1000	1000	1340	1300	99	95	75-125	3	20	
Calcium	ug/L	150000	10000	10000	156000	144000	55	-65	75-125	8	20	P6
Iron	ug/L	3030	10000	10000	12900	12300	98	93	75-125	4	20	
Lithium	ug/L	ND	1000	1000	1040	1010	103	100	75-125	3	20	
Magnesium	ug/L	34800	10000	10000	43400	41300	86	64	75-125	5	20	M0

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463113												3463114	
Parameter	Units	50355295001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Manganese	ug/L	367	1000	1000	1320	1270	96	91	75-125	4	20		
Molybdenum	ug/L	ND	1000	1000	1040	1010	104	101	75-125	3	20		
Potassium	ug/L	3360	10000	10000	13600	13000	102	96	75-125	5	20		
Silica	ug/L	16100	10700	10700	26200	24400	94	77	75-125	7	20	N2	
Sodium	ug/L	46800	10000	10000	55200	52900	84	61	75-125	4	20	P6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463144												3463145	
Parameter	Units	50355308002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	2410	10000	10000	13500	13700	110	113	75-125	2	20		
Boron	ug/L	ND	1000	1000	1100	1110	101	103	75-125	2	20		
Calcium	ug/L	125000	10000	10000	133000	142000	83	166	75-125	6	20	P6	
Iron	ug/L	5670	10000	10000	15700	16200	100	105	75-125	3	20		
Lithium	ug/L	ND	1000	1000	1060	1080	105	106	75-125	2	20		
Magnesium	ug/L	35500	10000	10000	45200	47500	97	120	75-125	5	20		
Manganese	ug/L	1220	1000	1000	2180	2270	96	105	75-125	4	20		
Molybdenum	ug/L	16.6	1000	1000	1060	1070	104	106	75-125	2	20		
Potassium	ug/L	2290	10000	10000	12900	13000	106	107	75-125	1	20		
Silica	ug/L	33900	10700	10700	44500	48000	99	132	75-125	8	20	N2	
Sodium	ug/L	21200	10000	10000	31400	32700	102	115	75-125	4	20		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	755986	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007		

METHOD BLANK: 3464756 Matrix: Water
 Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/17/23 15:12	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/17/23 15:12	

LABORATORY CONTROL SAMPLE: 3464757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	953	95	80-120	
Molybdenum, Dissolved	ug/L	1000	962	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464758 3464759

Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	347	1000	1000	1340	1270	99	92	75-125	5	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1040	989	103	99	75-125	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464760 3464761

Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	39.5	1000	1000	1010	995	97	96	75-125	2	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	993	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	755619	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

METHOD BLANK:	3462985	Matrix:	Water
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Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	10/05/23 08:56	
Arsenic	ug/L	ND	1.0	0.075	10/05/23 08:56	
Barium	ug/L	ND	1.0	0.077	10/05/23 08:56	
Cobalt	ug/L	ND	1.0	0.046	10/05/23 08:56	
Selenium	ug/L	ND	1.0	0.20	10/05/23 08:56	

LABORATORY CONTROL SAMPLE: 3462986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.0	97	80-120	
Arsenic	ug/L	40	37.8	95	80-120	
Barium	ug/L	40	37.7	94	80-120	
Cobalt	ug/L	40	40.6	101	80-120	
Selenium	ug/L	40	38.2	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3462987 3462988

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355295001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	39.9	40.0	99	99	75-125	0	20
Arsenic	ug/L	2.5	40	40	40.4	40.0	95	94	75-125	1	20
Barium	ug/L	37.0	40	40	75.6	75.8	96	97	75-125	0	20
Cobalt	ug/L	ND	40	40	39.0	38.5	97	96	75-125	1	20
Selenium	ug/L	ND	40	40	38.6	36.8	96	92	75-125	5	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	755582	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

METHOD BLANK: 3462762 Matrix: Water

Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/03/23 21:01	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/03/23 21:01	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/03/23 21:01	

LABORATORY CONTROL SAMPLE: 3462763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.6	97	90-110	

SAMPLE DUPLICATE: 3462765

Parameter	Units	50355157001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	463	475	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	463	475	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	756529	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

METHOD BLANK: 3467061 Matrix: Water

Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/10/23 14:16	

LABORATORY CONTROL SAMPLE: 3467062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	303	101	80-120	

SAMPLE DUPLICATE: 3467063

Parameter	Units	50355287009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	390	393	1	10	

SAMPLE DUPLICATE: 3467064

Parameter	Units	50355295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	724	728	1	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch: 757752

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

SAMPLE DUPLICATE: 3472674

Parameter	Units	50355221003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.4	1	2	H3

SAMPLE DUPLICATE: 3472675

Parameter	Units	50355295001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	756064	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007		

METHOD BLANK:	3465139	Matrix:	Water
Associated Lab Samples:	50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/06/23 09:12	

LABORATORY CONTROL SAMPLE: 3465140						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465141												3465142	
Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Sulfide	mg/L	ND	0.5	0.5	0.55	0.55	108	109	90-110	1	20		

MATRIX SPIKE SAMPLE: 3465143											
Parameter	Units	50355432004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Sulfide	mg/L	ND	0.5	0.54	107	90-110					

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	757789	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007		

METHOD BLANK: 3472804 Matrix: Water
 Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/17/23 15:43	H3,N2

LABORATORY CONTROL SAMPLE: 3472805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472806 3472807

Parameter	Units	50355295001		3472806		3472807		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Iron, Ferrous	mg/L	ND	1	1	1.1	1.1	104	107	90-110	3	20	H3,N2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472808 3472809

Parameter	Units	50355430002		3472808		3472809		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Iron, Ferrous	mg/L	ND	1	1	1.0	1.1	103	105	90-110	2	20	H3,N2	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	755590	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007		

METHOD BLANK: 3462812 Matrix: Water
 Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/03/23 20:53	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/03/23 20:53	

LABORATORY CONTROL SAMPLE: 3462813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.99	99	90-110	
Nitrogen, Nitrite	mg/L	1	0.97	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3462814 3462815

Parameter	Units	50355211002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	2.7	1	1	3.6	3.6	92	92	90-110	0	20	
Nitrogen, Nitrite	mg/L	0.036J	1	1	0.99	0.99	96	96	90-110	0	20	

MATRIX SPIKE SAMPLE: 3462816

Parameter	Units	50355270001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	1	3.0	89	90-110	
Nitrogen, Nitrite	mg/L	ND	1	1.0	99	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355270

QC Batch: 756937 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

METHOD BLANK: 3469066 Matrix: Water
 Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/12/23 19:53	

LABORATORY CONTROL SAMPLE: 3469067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469068 3469069

Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.5	1.6					3	

MATRIX SPIKE SAMPLE: 3469070

Parameter	Units	50355159003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		4.8	6.6			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355270

QC Batch: 756745 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

METHOD BLANK: 3468010 Matrix: Water
 Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/12/23 16:14	

LABORATORY CONTROL SAMPLE: 3468011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468012 3468013

Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.2	10	10	10.8	10.6	96	94	80-120	1	20	

MATRIX SPIKE SAMPLE: 3468014

Parameter	Units	50355296001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.4	10	13.6	92	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	756746	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355270001, 50355270002, 50355270003		

METHOD BLANK: 3468017 Matrix: Water

Associated Lab Samples: 50355270001, 50355270002, 50355270003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/11/23 20:17	

LABORATORY CONTROL SAMPLE: 3468018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468019 3468020

Parameter	Units	50354928001		50354928002		50354928001		50354928002		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Dissolved Organic Carbon	mg/L	6.6	62.5	62.5	70.7	69.4	102	100	80-120	2	20		

MATRIX SPIKE SAMPLE: 3468021

Parameter	Units	50354928002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.3	10	10.6	93	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	757256	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355270004, 50355270005, 50355270006, 50355270007

METHOD BLANK: 3470576 Matrix: Water
 Associated Lab Samples: 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/13/23 18:30	

LABORATORY CONTROL SAMPLE: 3470577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470578 3470579

Parameter	Units	50355295001		3470578		3470579		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.					
Dissolved Organic Carbon	mg/L	1.3	10	10.7	10	10.8	11.3	94	95	80-120	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470580 3470581

Parameter	Units	50355754007		3470580		3470581		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.					
Dissolved Organic Carbon	mg/L	1.8	10	11.3	10	11.2	11.3	95	94	80-120	1	20

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0680 ± 0.442 (0.959) C:NA T:93%	pCi/L	10/19/23 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.227 ± 0.402 (0.878) C:79% T:83%	pCi/L	10/18/23 11:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.227 ± 0.844 (1.84)	pCi/L	10/20/23 16:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.457 ± 0.562 (0.916) C:NA T:86%	pCi/L	10/19/23 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.429 ± 0.384 (0.782) C:79% T:85%	pCi/L	10/18/23 11:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.886 ± 0.946 (1.70)	pCi/L	10/20/23 16:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-17D Lab ID: 50355270003 Collected: 10/03/23 11:45 Received: 10/03/23 14:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.02 ± 0.677 (0.891) C:NA T:87%	pCi/L	10/19/23 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.02 ± 0.493 (0.865) C:79% T:78%	pCi/L	10/18/23 11:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.04 ± 1.17 (1.76)	pCi/L	10/20/23 16:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.307 ± 0.468 (0.806) C:NA T:94%	pCi/L	10/19/23 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.493 ± 0.434 (0.886) C:76% T:81%	pCi/L	10/18/23 11:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.800 ± 0.902 (1.69)	pCi/L	10/20/23 16:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: MW-181	Lab ID: 50355270005	Collected: 10/03/23 12:45	Received: 10/03/23 14:45	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.546 (1.09) C:NA T:94%	pCi/L	10/19/23 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.288 ± 0.339 (0.714) C:78% T:86%	pCi/L	10/18/23 11:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.288 ± 0.885 (1.80)	pCi/L	10/20/23 16:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.658 (1.31) C:NA T:91%	pCi/L	10/19/23 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.969 ± 0.488 (0.879) C:82% T:77%	pCi/L	10/18/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.969 ± 1.15 (2.19)	pCi/L	10/20/23 16:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Sample: DUP-9 **Lab ID: 50355270007** Collected: 10/03/23 08:00 Received: 10/03/23 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.05 ± 0.799 (1.19) C:NA T:95%	pCi/L	10/19/23 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.386 ± 0.391 (0.814) C:80% T:83%	pCi/L	10/18/23 11:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.44 ± 1.19 (2.00)	pCi/L	10/20/23 16:34	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	620910	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: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

METHOD BLANK: 3026015 Matrix: Water

Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.112 ± 0.300 (0.672) C:79% T:87%	pCi/L	10/18/23 11:43	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

QC Batch:	620909	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: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

METHOD BLANK:	3026014	Matrix:	Water
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Associated Lab Samples: 50355270001, 50355270002, 50355270003, 50355270004, 50355270005, 50355270006, 50355270007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.504 ± 0.400 (0.520) C:NA T:93%	pCi/L	10/19/23 13:00	

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

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QUALIFIERS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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.

PO The reported result is outside the range of the pH buffer solutions used to check the calibration of the pH meter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355270001	MW-17S	EPA 9056	757163		
50355270002	MW-17I	EPA 9056	757163		
50355270003	MW-17D	EPA 9056	757163		
50355270004	MW-18S	EPA 9056	757163		
50355270005	MW-18I	EPA 9056	757163		
50355270006	MW-18D	EPA 9056	757163		
50355270007	DUP-9	EPA 9056	757163		
50355270001	MW-17S	EPA 3010	755652	EPA 6010	756575
50355270002	MW-17I	EPA 3010	755652	EPA 6010	756575
50355270003	MW-17D	EPA 3010	755652	EPA 6010	756575
50355270004	MW-18S	EPA 3010	755652	EPA 6010	756575
50355270005	MW-18I	EPA 3010	755652	EPA 6010	756575
50355270006	MW-18D	EPA 3010	755652	EPA 6010	756575
50355270007	DUP-9	EPA 3010	755652	EPA 6010	756575
50355270001	MW-17S	EPA 3010	755986	EPA 6010	757792
50355270002	MW-17I	EPA 3010	755986	EPA 6010	757792
50355270003	MW-17D	EPA 3010	755986	EPA 6010	757792
50355270004	MW-18S	EPA 3010	755986	EPA 6010	757792
50355270005	MW-18I	EPA 3010	755986	EPA 6010	757792
50355270006	MW-18D	EPA 3010	755986	EPA 6010	757792
50355270007	DUP-9	EPA 3010	755986	EPA 6010	757792
50355270001	MW-17S	EPA 200.2	755619	EPA 6020	755824
50355270002	MW-17I	EPA 200.2	755619	EPA 6020	755824
50355270003	MW-17D	EPA 200.2	755619	EPA 6020	755824
50355270004	MW-18S	EPA 200.2	755619	EPA 6020	755824
50355270005	MW-18I	EPA 200.2	755619	EPA 6020	755824
50355270006	MW-18D	EPA 200.2	755619	EPA 6020	755824
50355270007	DUP-9	EPA 200.2	755619	EPA 6020	755824
50355270001	MW-17S	EPA 903.1	620909		
50355270002	MW-17I	EPA 903.1	620909		
50355270003	MW-17D	EPA 903.1	620909		
50355270004	MW-18S	EPA 903.1	620909		
50355270005	MW-18I	EPA 903.1	620909		
50355270006	MW-18D	EPA 903.1	620909		
50355270007	DUP-9	EPA 903.1	620909		
50355270001	MW-17S	EPA 904.0	620910		
50355270002	MW-17I	EPA 904.0	620910		
50355270003	MW-17D	EPA 904.0	620910		
50355270004	MW-18S	EPA 904.0	620910		
50355270005	MW-18I	EPA 904.0	620910		
50355270006	MW-18D	EPA 904.0	620910		
50355270007	DUP-9	EPA 904.0	620910		
50355270001	MW-17S	Total Radium Calculation	623972		
50355270002	MW-17I	Total Radium Calculation	623972		
50355270003	MW-17D	Total Radium Calculation	623972		
50355270004	MW-18S	Total Radium Calculation	623972		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355270005	MW-18I	Total Radium Calculation	623972		
50355270006	MW-18D	Total Radium Calculation	623972		
50355270007	DUP-9	Total Radium Calculation	623972		
50355270001	MW-17S	SM 2320B	755582		
50355270002	MW-17I	SM 2320B	755582		
50355270003	MW-17D	SM 2320B	755582		
50355270004	MW-18S	SM 2320B	755582		
50355270005	MW-18I	SM 2320B	755582		
50355270006	MW-18D	SM 2320B	755582		
50355270007	DUP-9	SM 2320B	755582		
50355270001	MW-17S	SM 2540C	756529		
50355270002	MW-17I	SM 2540C	756529		
50355270003	MW-17D	SM 2540C	756529		
50355270004	MW-18S	SM 2540C	756529		
50355270005	MW-18I	SM 2540C	756529		
50355270006	MW-18D	SM 2540C	756529		
50355270007	DUP-9	SM 2540C	756529		
50355270001	MW-17S	SM 4500-H+B	757752		
50355270002	MW-17I	SM 4500-H+B	757752		
50355270003	MW-17D	SM 4500-H+B	757752		
50355270004	MW-18S	SM 4500-H+B	757752		
50355270005	MW-18I	SM 4500-H+B	757752		
50355270006	MW-18D	SM 4500-H+B	757752		
50355270007	DUP-9	SM 4500-H+B	757752		
50355270001	MW-17S	SM 4500-S2-D	756064		
50355270002	MW-17I	SM 4500-S2-D	756064		
50355270003	MW-17D	SM 4500-S2-D	756064		
50355270004	MW-18S	SM 4500-S2-D	756064		
50355270005	MW-18I	SM 4500-S2-D	756064		
50355270006	MW-18D	SM 4500-S2-D	756064		
50355270007	DUP-9	SM 4500-S2-D	756064		
50355270001	MW-17S	HACH 8146	757789		
50355270002	MW-17I	HACH 8146	757789		
50355270003	MW-17D	HACH 8146	757789		
50355270004	MW-18S	HACH 8146	757789		
50355270005	MW-18I	HACH 8146	757789		
50355270006	MW-18D	HACH 8146	757789		
50355270007	DUP-9	HACH 8146	757789		
50355270001	MW-17S	EPA 353.2	755590		
50355270002	MW-17I	EPA 353.2	755590		
50355270003	MW-17D	EPA 353.2	755590		
50355270004	MW-18S	EPA 353.2	755590		
50355270005	MW-18I	EPA 353.2	755590		
50355270006	MW-18D	EPA 353.2	755590		
50355270007	DUP-9	EPA 353.2	755590		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355270

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355270001	MW-17S	EPA 365.1	756937	EPA 365.1	757114
50355270002	MW-17I	EPA 365.1	756937	EPA 365.1	757114
50355270003	MW-17D	EPA 365.1	756937	EPA 365.1	757114
50355270004	MW-18S	EPA 365.1	756937	EPA 365.1	757114
50355270005	MW-18I	EPA 365.1	756937	EPA 365.1	757114
50355270006	MW-18D	EPA 365.1	756937	EPA 365.1	757114
50355270007	DUP-9	EPA 365.1	756937	EPA 365.1	757114
50355270001	MW-17S	SM 5310C	756745		
50355270002	MW-17I	SM 5310C	756745		
50355270003	MW-17D	SM 5310C	756745		
50355270004	MW-18S	SM 5310C	756745		
50355270005	MW-18I	SM 5310C	756745		
50355270006	MW-18D	SM 5310C	756745		
50355270007	DUP-9	SM 5310C	756745		
50355270001	MW-17S	SM 5310C	756746		
50355270002	MW-17I	SM 5310C	756746		
50355270003	MW-17D	SM 5310C	756746		
50355270004	MW-18S	SM 5310C	757256		
50355270005	MW-18I	SM 5310C	757256		
50355270006	MW-18D	SM 5310C	757256		
50355270007	DUP-9	SM 5310C	757256		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/3/23 1458 CAP

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**

4. Cooler Temperature(s): 1.0 | 1.0 2.3 | 2.5 3.9 | 3.9 _____
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?. Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>353.2</u>	/		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>16 18</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			/

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFM	WGKU	BG1U	MeOH (only) SBS DI	R	AMBER GLASS							PLASTIC							OTHER			Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black									
						DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U						BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	
						HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9																											
1																		2	1	2	1										2	✓	✓		✓	
2																																			✓	
3																																				✓
4																																				✓
5																																				✓
6																																				✓
7																																				✓
8																																				
9																																				
10																																				
11																																				
12																																				

Container Codes

Glass			
DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFM	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFM	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic			
BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic	Miscellaneous	
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic	Syringe Kit	LL Cr+6 sampling kit
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic	R	Terracore Kit
BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Sodium Thiosulfate
BP3B	250mL NaOH plastic	GN	General Container
BP3N	250mL HNO3 plastic	U	Summa Can (air sample)
BP3F	250mL HNO3 plastic-field filtered	WT	Water
BP3U	250mL unpreserved plastic	SL	Solid
BP3S	250mL H2SO4 plastic	OL	Oil
BP3Z	250mL NaOH, ZnAc plastic	NAL	Non-aqueous liquid
BP3R	250mL Unpres. FF SO4/OH buffer	WP	Wipe



February 08, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023
Pace Project No.: 50355295

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023

Pace Project No.: 50355295

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023
Pace Project No.: 50355295

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355295001	MW-21D	Water	10/03/23 14:15	10/03/23 17:30
50355295002	MW-21D MS	Water	10/03/23 14:15	10/03/23 17:30
50355295003	MW-21D MSD	Water	10/03/23 14:15	10/03/23 17:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023

Pace Project No.: 50355295

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355295001	MW-21D	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	BEP	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
50355295002	MW-21D MS	SM 5310C	ATS	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
50355295003	MW-21D MSD	EPA 904.0	JJS1	1	PASI-PA
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA

PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023

Pace Project No.: 50355295

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355295001	MW-21D					
EPA 9056	Chloride	47.0	mg/L	2.5	10/14/23 06:29	
EPA 9056	Sulfate	246	mg/L	2.5	10/14/23 06:29	
EPA 6010	Boron	355	ug/L	100	10/10/23 16:09	
EPA 6010	Calcium	150000	ug/L	1000	10/10/23 16:09	
EPA 6010	Iron	3030	ug/L	100	10/10/23 16:09	
EPA 6010	Magnesium	34800	ug/L	1000	10/10/23 16:09	
EPA 6010	Manganese	367	ug/L	10.0	10/10/23 16:09	
EPA 6010	Potassium	3360	ug/L	1000	10/10/23 16:09	
EPA 6010	Silica	16100	ug/L	450	10/10/23 16:09	N2
EPA 6010	Sodium	46800	ug/L	1000	10/10/23 16:09	
EPA 6010	Manganese, Dissolved	347	ug/L	10.0	10/17/23 15:24	
EPA 6020	Arsenic	2.5	ug/L	1.0	10/05/23 09:54	
EPA 6020	Barium	37.0	ug/L	1.0	10/05/23 09:54	
EPA 903.1	Radium-226	0.295 ± 0.385 (0.634) C:NA T:87%	pCi/L		10/19/23 14:24	
EPA 904.0	Radium-228	0.429 ± 0.413 (0.850) C:83% T:81%	pCi/L		10/17/23 12:30	
Total Radium Calculation	Total Radium	0.724 ± 0.798 (1.48)	pCi/L		10/20/23 15:54	
SM 2320B	Alkalinity, Total as CaCO3	269	mg/L	10.0	10/05/23 21:15	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	269	mg/L	10.0	10/05/23 21:15	
SM 2540C	Total Dissolved Solids	724	mg/L	10.0	10/10/23 14:21	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	10/17/23 13:56	H3
SM 5310C	Total Organic Carbon	1.2	mg/L	1.0	10/12/23 18:16	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	10/13/23 19:29	
50355295002	MW-21D MS					
EPA 903.1	Radium-226	115.47 %REC ± NA (NA) C:NA T:NA	pCi/L		10/19/23 14:24	
EPA 904.0	Radium-228	103.62 %REC ± NA (NA) C:NA T:NA	pCi/L		10/17/23 12:31	
50355295003	MW-21D MSD					
EPA 903.1	Radium-226	96.85 %REC 17.54RPD ± NA (NA) C:NA T:NA	pCi/L		10/19/23 14:24	
EPA 904.0	Radium-228	92.37 %REC 11.48RPD ± NA (NA) C:NA T:NA	pCi/L		10/17/23 12:31	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023

Pace Project No.: 50355295

Sample: MW-21D		Lab ID: 50355295001		Collected: 10/03/23 14:15		Received: 10/03/23 17:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	47.0	mg/L	2.5	0.67	10		10/14/23 06:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/14/23 06:13	16984-48-8	
Sulfate	246	mg/L	2.5	1.9	10		10/14/23 06:29	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	42.2	1	10/05/23 15:38	10/10/23 16:09	7429-90-5	
Boron	355	ug/L	100	12.3	1	10/05/23 15:38	10/10/23 16:09	7440-42-8	
Calcium	150000	ug/L	1000	143	1	10/05/23 15:38	10/10/23 16:09	7440-70-2	
Iron	3030	ug/L	100	28.6	1	10/05/23 15:38	10/10/23 16:09	7439-89-6	
Lithium	ND	ug/L	20.0	6.2	1	10/05/23 15:38	10/10/23 16:09	7439-93-2	
Magnesium	34800	ug/L	1000	45.6	1	10/05/23 15:38	10/10/23 16:09	7439-95-4	
Manganese	367	ug/L	10.0	2.8	1	10/05/23 15:38	10/10/23 16:09	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.2	1	10/05/23 15:38	10/10/23 16:09	7439-98-7	
Potassium	3360	ug/L	1000	219	1	10/05/23 15:38	10/10/23 16:09	7440-09-7	
Silica	16100	ug/L	450		1	10/05/23 15:38	10/10/23 16:09	7631-86-9	N2
Sodium	46800	ug/L	1000	288	1	10/05/23 15:38	10/10/23 16:09	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	347	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:24	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:24	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.49	1	10/04/23 15:11	10/05/23 09:54	7440-36-0	
Arsenic	2.5	ug/L	1.0	0.075	1	10/04/23 15:11	10/05/23 09:54	7440-38-2	
Barium	37.0	ug/L	1.0	0.077	1	10/04/23 15:11	10/05/23 09:54	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/04/23 15:11	10/05/23 09:54	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/04/23 15:11	10/05/23 09:54	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	269	mg/L	10.0	10.0	1		10/05/23 21:15		
Alkalinity,Bicarbonate (CaCO3)	269	mg/L	10.0	10.0	1		10/05/23 21:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 21:15		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	724	mg/L	10.0	10.0	1		10/10/23 14:21		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.9	Std. Units	0.10	0.10	1		10/17/23 13:56		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023

Pace Project No.: 50355295

Sample: MW-21D		Lab ID: 50355295001		Collected: 10/03/23 14:15	Received: 10/03/23 17:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:45	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/04/23 20:56	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/04/23 20:56	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 12:00	10/12/23 20:01		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.2	mg/L	1.0	0.24	1		10/12/23 18:16	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	0.24	1		10/13/23 19:29		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch:	757025	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3469446 Matrix: Water

Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/14/23 07:01	
Fluoride	mg/L	ND	0.10	0.017	10/14/23 07:01	
Sulfate	mg/L	ND	0.25	0.19	10/14/23 07:01	

LABORATORY CONTROL SAMPLE: 3469447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.2	89	80-120	
Fluoride	mg/L	1	0.95	95	80-120	
Sulfate	mg/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469448 3469449

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355295001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	47.0	25	25	69.2	69.3	89	89	80-120	0	15		
Fluoride	mg/L	ND	1	1	1.0	1.0	97	97	80-120	0	15		
Sulfate	mg/L	246	50	50	286	287	80	81	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch:	755652	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3463111 Matrix: Water

Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	42.2	10/10/23 15:20	
Boron	ug/L	ND	100	12.3	10/10/23 15:20	
Calcium	ug/L	ND	1000	143	10/10/23 15:20	
Iron	ug/L	ND	100	28.6	10/10/23 15:20	
Lithium	ug/L	ND	20.0	6.2	10/10/23 15:20	
Magnesium	ug/L	ND	1000	45.6	10/10/23 15:20	
Manganese	ug/L	ND	10.0	2.8	10/10/23 15:20	
Molybdenum	ug/L	ND	10.0	1.2	10/10/23 15:20	
Potassium	ug/L	ND	1000	219	10/10/23 15:20	
Silica	ug/L	ND	450		10/10/23 15:20	N2
Sodium	ug/L	ND	1000	288	10/10/23 15:20	

LABORATORY CONTROL SAMPLE: 3463112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	80-120	
Boron	ug/L	1000	1020	102	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Iron	ug/L	10000	10200	102	80-120	
Lithium	ug/L	1000	1030	103	80-120	
Magnesium	ug/L	10000	10100	101	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Molybdenum	ug/L	1000	1060	106	80-120	
Potassium	ug/L	10000	10300	103	80-120	
Silica	ug/L	10700	10800	101	80-120	N2
Sodium	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463113 3463114

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50355295001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	ND	10000	10000	10200	10100	101	101	75-125	0	20	
Boron	ug/L	355	1000	1000	1340	1300	99	95	75-125	3	20	
Calcium	ug/L	150000	10000	10000	156000	144000	55	-65	75-125	8	20	P6
Iron	ug/L	3030	10000	10000	12900	12300	98	93	75-125	4	20	
Lithium	ug/L	ND	1000	1000	1040	1010	103	100	75-125	3	20	
Magnesium	ug/L	34800	10000	10000	43400	41300	86	64	75-125	5	20	M0

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463113												3463114	
Parameter	Units	50355295001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Manganese	ug/L	367	1000	1000	1320	1270	96	91	75-125	4	20		
Molybdenum	ug/L	ND	1000	1000	1040	1010	104	101	75-125	3	20		
Potassium	ug/L	3360	10000	10000	13600	13000	102	96	75-125	5	20		
Silica	ug/L	16100	10700	10700	26200	24400	94	77	75-125	7	20	N2	
Sodium	ug/L	46800	10000	10000	55200	52900	84	61	75-125	4	20	P6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463144												3463145	
Parameter	Units	50355308002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	2410	10000	10000	13500	13700	110	113	75-125	2	20		
Boron	ug/L	ND	1000	1000	1100	1110	101	103	75-125	2	20		
Calcium	ug/L	125000	10000	10000	133000	142000	83	166	75-125	6	20	P6	
Iron	ug/L	5670	10000	10000	15700	16200	100	105	75-125	3	20		
Lithium	ug/L	ND	1000	1000	1060	1080	105	106	75-125	2	20		
Magnesium	ug/L	35500	10000	10000	45200	47500	97	120	75-125	5	20		
Manganese	ug/L	1220	1000	1000	2180	2270	96	105	75-125	4	20		
Molybdenum	ug/L	16.6	1000	1000	1060	1070	104	106	75-125	2	20		
Potassium	ug/L	2290	10000	10000	12900	13000	106	107	75-125	1	20		
Silica	ug/L	33900	10700	10700	44500	48000	99	132	75-125	8	20	N2	
Sodium	ug/L	21200	10000	10000	31400	32700	102	115	75-125	4	20		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023
 Pace Project No.: 50355295

QC Batch: 755986 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3464756 Matrix: Water
 Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/17/23 15:12	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/17/23 15:12	

LABORATORY CONTROL SAMPLE: 3464757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	953	95	80-120	
Molybdenum, Dissolved	ug/L	1000	962	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464758 3464759

Parameter	Units	50355295001		3464759		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Manganese, Dissolved	ug/L	347	1000	1000	1340	99	92	75-125	5	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1040	103	99	75-125	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464760 3464761

Parameter	Units	50355430002		3464761		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Manganese, Dissolved	ug/L	39.5	1000	1000	1010	97	96	75-125	2	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch:	755619	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3462985 Matrix: Water

Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	10/05/23 08:56	
Arsenic	ug/L	ND	1.0	0.075	10/05/23 08:56	
Barium	ug/L	ND	1.0	0.077	10/05/23 08:56	
Cobalt	ug/L	ND	1.0	0.046	10/05/23 08:56	
Selenium	ug/L	ND	1.0	0.20	10/05/23 08:56	

LABORATORY CONTROL SAMPLE: 3462986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.0	97	80-120	
Arsenic	ug/L	40	37.8	95	80-120	
Barium	ug/L	40	37.7	94	80-120	
Cobalt	ug/L	40	40.6	101	80-120	
Selenium	ug/L	40	38.2	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3462987 3462988

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355295001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	39.9	40.0	99	99	75-125	0	20
Arsenic	ug/L	2.5	40	40	40.4	40.0	95	94	75-125	1	20
Barium	ug/L	37.0	40	40	75.6	75.8	96	97	75-125	0	20
Cobalt	ug/L	ND	40	40	39.0	38.5	97	96	75-125	1	20
Selenium	ug/L	ND	40	40	38.6	36.8	96	92	75-125	5	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch:	755999	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3464833 Matrix: Water

Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/05/23 21:15	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/05/23 21:15	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/05/23 21:15	

LABORATORY CONTROL SAMPLE: 3464834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.5	97	90-110	

SAMPLE DUPLICATE: 3464835

Parameter	Units	50355211001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	127	134	5	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	127	134	5	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3464836

Parameter	Units	50355295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	269	275	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	269	275	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch: 756529

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3467061

Matrix: Water

Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/10/23 14:16	

LABORATORY CONTROL SAMPLE: 3467062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	303	101	80-120	

SAMPLE DUPLICATE: 3467063

Parameter	Units	50355287009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	390	393	1	10	

SAMPLE DUPLICATE: 3467064

Parameter	Units	50355295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	724	728	1	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch: 757752

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

SAMPLE DUPLICATE: 3472674

Parameter	Units	50355221003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.4	1	2	H3

SAMPLE DUPLICATE: 3472675

Parameter	Units	50355295001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch: 756064	Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D	Analysis Description: 4500S2D Sulfide Water
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3465139 Matrix: Water

Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/06/23 09:12	

LABORATORY CONTROL SAMPLE: 3465140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465141 3465142

Parameter	Units	50355295001		3465142		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Sulfide	mg/L	ND	0.5	0.5	0.55	0.55	108	109	90-110	1	20

MATRIX SPIKE SAMPLE: 3465143

Parameter	Units	50355432004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.54	107	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023
 Pace Project No.: 50355295

QC Batch: 757789	Analysis Method: HACH 8146
QC Batch Method: HACH 8146	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3472804 Matrix: Water
 Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/17/23 15:43	H3,N2

LABORATORY CONTROL SAMPLE: 3472805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472806 3472807

Parameter	Units	50355295001		3472806		3472807		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Iron, Ferrous	mg/L	ND	1	1	1.1	1.1	104	107	90-110	3	20	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472808 3472809

Parameter	Units	50355430002		3472808		3472809		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Iron, Ferrous	mg/L	ND	1	1	1.0	1.1	103	105	90-110	2	20	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch: 755814

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3463801

Matrix: Water

Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/04/23 20:47	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/04/23 20:47	

LABORATORY CONTROL SAMPLE: 3463802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	
Nitrogen, Nitrite	mg/L	1	1.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463803 3463804

Parameter	Units	50355295001		3463804		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Nitrate	mg/L	ND	1	1	0.99	1.0	98	101	90-110	2	20
Nitrogen, Nitrite	mg/L	ND	1	1	0.99	0.99	98	98	90-110	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023
Pace Project No.: 50355295

QC Batch: 756937 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355295001

METHOD BLANK: 3469066 Matrix: Water
Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/12/23 19:53	

LABORATORY CONTROL SAMPLE: 3469067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469068 3469069

Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.5	1.6					3	

MATRIX SPIKE SAMPLE: 3469070

Parameter	Units	50355159003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		4.8	6.6			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch:	756745	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3468010 Matrix: Water

Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/12/23 16:14	

LABORATORY CONTROL SAMPLE: 3468011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468012 3468013

Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.2	10	10	10.8	10.6	96	94	80-120	1	20	

MATRIX SPIKE SAMPLE: 3468014

Parameter	Units	50355296001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.4	10	13.6	92	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch: 757256

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355295001

METHOD BLANK: 3470576

Matrix: Water

Associated Lab Samples: 50355295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/13/23 18:30	

LABORATORY CONTROL SAMPLE: 3470577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470578 3470579

Parameter	Units	50355295001		3470578		3470579		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Dissolved Organic Carbon	mg/L	1.3	10	10.7	10	10.7	10.8	94	95	80-120	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470580 3470581

Parameter	Units	50355754007		3470580		3470581		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Dissolved Organic Carbon	mg/L	1.8	10	11.3	10	11.3	11.2	95	94	80-120	1	20

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023

Pace Project No.: 50355295

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.295 ± 0.385 (0.634) C:NA T:87%	pCi/L	10/19/23 14:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.429 ± 0.413 (0.850) C:83% T:81%	pCi/L	10/17/23 12:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.724 ± 0.798 (1.48)	pCi/L	10/20/23 15:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023

Pace Project No.: 50355295

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-21D MS Lab ID: 50355295002 Collected: 10/03/23 14:15 Received: 10/03/23 17:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	115.47 %REC ± NA (NA) C:NA T:NA	pCi/L	10/19/23 14:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	103.62 %REC ± NA (NA) C:NA T:NA	pCi/L	10/17/23 12:31	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023

Pace Project No.: 50355295

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	96.85 %REC 17.54RPD ± NA (NA) C:NA T:NA	pCi/L	10/19/23 14:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	92.37 %REC 11.48RPD ± NA (NA) C:NA T:NA	pCi/L	10/17/23 12:31	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch: 621090

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: 50355295001, 50355295002, 50355295003

METHOD BLANK: 3026832

Matrix: Water

Associated Lab Samples: 50355295001, 50355295002, 50355295003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.138 ± 0.375 (0.839) C:69% T:87%	pCi/L	10/17/23 12:30	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023

Pace Project No.: 50355295

QC Batch: 621088

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: 50355295001, 50355295002, 50355295003

METHOD BLANK: 3026829

Matrix: Water

Associated Lab Samples: 50355295001, 50355295002, 50355295003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0961 ± 0.219 (0.517) C:NA T:91%	pCi/L	10/19/23 13:47	

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QUALIFIERS

Project: Eagle Valley October 2023

Pace Project No.: 50355295

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023

Pace Project No.: 50355295

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355295001	MW-21D	EPA 9056	757025		
50355295001	MW-21D	EPA 3010	755652	EPA 6010	756575
50355295001	MW-21D	EPA 3010	755986	EPA 6010	757792
50355295001	MW-21D	EPA 200.2	755619	EPA 6020	755824
50355295001	MW-21D	EPA 903.1	621088		
50355295002	MW-21D MS	EPA 903.1	621088		
50355295003	MW-21D MSD	EPA 903.1	621088		
50355295001	MW-21D	EPA 904.0	621090		
50355295002	MW-21D MS	EPA 904.0	621090		
50355295003	MW-21D MSD	EPA 904.0	621090		
50355295001	MW-21D	Total Radium Calculation	623962		
50355295001	MW-21D	SM 2320B	755999		
50355295001	MW-21D	SM 2540C	756529		
50355295001	MW-21D	SM 4500-H+B	757752		
50355295001	MW-21D	SM 4500-S2-D	756064		
50355295001	MW-21D	HACH 8146	757789		
50355295001	MW-21D	EPA 353.2	755814		
50355295001	MW-21D	EPA 365.1	756937	EPA 365.1	757114
50355295001	MW-21D	SM 5310C	756745		
50355295001	MW-21D	SM 5310C	757256		

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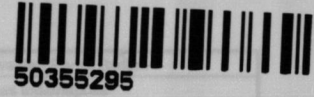


CHAIN-OF-CUSTODY / Analytical Document

The Chain-of-Custody is a LEGAL DOCUMENT. All...

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions for...

WO#: 50355295



Section A Required Client Information, Section B Required Project Information, Section C Invoice Information. Includes fields for Company, Address, Report To, Copy To, Attention, Company Name, Address, Email, Project Name, Project Manager, Pace Profile, Requested Due Date, and State/Location.

Main data table with columns: ITEM #, MATRIX CODE, SAMPLE TYPE, COLLECTED (START/END DATE/TIME), PRESERVATIVES, ANALYSES TEST (Y/N), and REQUESTED ANALYSIS FILTERED (Y/N). Includes handwritten entries for items 1-3.

Summary table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, and SAMPLE CONDITIONS. Includes handwritten entries for NO2/NO3 SH time and signatures.

SAMPLER NAME AND SIGNATURE section with fields for PRINT Name of SAMPLER, SIGNATURE of SAMPLER, DATE Signed, and checkboxes for Received on Ice, Custody Sealed, Cooler, and Samples Intact.



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/3/23 18:13 TH

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**
4. Cooler Temperature(s): 23/23
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO2/NO3</u>	<input checked="" type="checkbox"/>		Circle: <u>HNO3 (>2)</u> <u>H2SO4 (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>2045</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sept</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?			<input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:



February 08, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355430

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355430

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355430001	MW-23S	Water	10/04/23 14:00	10/04/23 18:21
50355430002	MW-23I	Water	10/04/23 12:15	10/04/23 18:21
50355430003	MW-23D	Water	10/04/23 11:00	10/04/23 18:21
50355430004	MW-23I MS	Water	10/04/23 12:15	10/04/23 18:21
50355430005	MW-23I MSD	Water	10/04/23 12:15	10/04/23 18:21

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355430001	MW-23S	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	BEP	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50355430002	MW-23I	EPA 9056	KBB
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	DMT			5	PASI-I
EPA 903.1	MAR1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	STS			1	PASI-I
HACH 8146	BEP			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50355430003	MW-23D			EPA 9056	KBB
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	BEP	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
50355430004	MW-23I MS	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50355430005	MW-23I MSD	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA

PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355430

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355430001	MW-23S					
EPA 9056	Chloride	4.3	mg/L	0.25	10/13/23 14:00	
EPA 9056	Sulfate	4.9	mg/L	0.25	10/13/23 14:00	
EPA 6010	Calcium	99700	ug/L	1000	10/18/23 13:08	
EPA 6010	Magnesium	28000	ug/L	1000	10/18/23 13:08	
EPA 6010	Silica	12300	ug/L	450	10/18/23 13:08	N2
EPA 6010	Sodium	4860	ug/L	1000	10/18/23 13:08	
EPA 6020	Barium	44.0	ug/L	1.0	10/06/23 08:51	
EPA 903.1	Radium-226	0.0766 ± 0.498 (1.00) C:NA T:84%	pCi/L		10/18/23 14:21	
EPA 904.0	Radium-228	0.304 ± 0.389 (0.829) C:79% T:84%	pCi/L		10/16/23 13:03	
Total Radium Calculation	Total Radium	0.381 ± 0.887 (1.83)	pCi/L		10/19/23 11:55	
SM 2320B	Alkalinity, Total as CaCO3	335	mg/L	10.0	10/05/23 21:15	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	335	mg/L	10.0	10/05/23 21:15	
SM 2540C	Total Dissolved Solids	367	mg/L	10.0	10/11/23 15:30	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/17/23 17:01	H3
EPA 353.2	Nitrogen, Nitrate	8.2	mg/L	1.0	10/05/23 22:20	
SM 5310C	Dissolved Organic Carbon	2.9	mg/L	1.0	10/16/23 19:20	
50355430002	MW-23I					
EPA 9056	Chloride	10.9	mg/L	0.25	10/13/23 14:16	
EPA 9056	Sulfate	22.6	mg/L	0.25	10/13/23 14:16	
EPA 6010	Calcium	84100	ug/L	1000	10/18/23 13:09	
EPA 6010	Magnesium	23300	ug/L	1000	10/18/23 13:09	
EPA 6010	Manganese	40.2	ug/L	10.0	10/18/23 13:09	
EPA 6010	Potassium	1340	ug/L	1000	10/18/23 13:09	
EPA 6010	Silica	15300	ug/L	450	10/18/23 13:09	N2
EPA 6010	Sodium	9160	ug/L	1000	10/18/23 13:09	
EPA 6010	Manganese, Dissolved	39.5	ug/L	10.0	10/17/23 15:36	
EPA 6020	Barium	29.4	ug/L	1.0	10/06/23 08:54	
EPA 6020	Selenium	5.1	ug/L	1.0	10/06/23 08:54	
EPA 903.1	Radium-226	-0.0686 ± 0.554 (1.14) C:NA T:82%	pCi/L		10/18/23 14:45	
EPA 904.0	Radium-228	0.377 ± 0.344 (0.699) C:80% T:83%	pCi/L		10/16/23 13:03	
Total Radium Calculation	Total Radium	0.377 ± 0.898 (1.84)	pCi/L		10/19/23 11:55	
SM 2320B	Alkalinity, Total as CaCO3	296	mg/L	10.0	10/05/23 20:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355430

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355430002	MW-23I					
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	296	mg/L	10.0	10/05/23 20:56	
SM 2540C	Total Dissolved Solids	339	mg/L	10.0	10/11/23 15:30	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	10/17/23 16:59	H3
EPA 353.2	Nitrogen, Nitrate	8.6	mg/L	1.0	10/05/23 22:13	
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	10/14/23 01:33	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/16/23 19:30	
50355430003	MW-23D					
EPA 9056	Chloride	20.3	mg/L	2.5	10/13/23 16:44	
EPA 9056	Sulfate	37.5	mg/L	0.25	10/13/23 16:27	
EPA 6010	Aluminum	221	ug/L	200	10/18/23 13:26	
EPA 6010	Calcium	74500	ug/L	1000	10/18/23 13:26	
EPA 6010	Iron	475	ug/L	100	10/18/23 13:26	
EPA 6010	Magnesium	22100	ug/L	1000	10/18/23 13:26	
EPA 6010	Manganese	157	ug/L	10.0	10/18/23 13:26	
EPA 6010	Potassium	1680	ug/L	1000	10/18/23 13:26	
EPA 6010	Silica	15500	ug/L	450	10/18/23 13:26	N2
EPA 6010	Sodium	14000	ug/L	1000	10/18/23 13:26	
EPA 6010	Manganese, Dissolved	141	ug/L	10.0	10/17/23 15:41	
EPA 6020	Barium	42.6	ug/L	1.0	10/06/23 09:17	
EPA 6020	Selenium	6.4	ug/L	1.0	10/06/23 09:17	
EPA 903.1	Radium-226	0.638 ± 0.589 (0.858) C:NA T:86%	pCi/L		10/18/23 14:45	
EPA 904.0	Radium-228	0.602 ± 0.393 (0.746) C:81% T:81%	pCi/L		10/16/23 13:04	
Total Radium Calculation	Total Radium	1.24 ± 0.982 (1.60)	pCi/L		10/19/23 11:55	
SM 2320B	Alkalinity, Total as CaCO3	628	mg/L	10.0	10/05/23 20:56	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	628	mg/L	10.0	10/05/23 20:56	
SM 2540C	Total Dissolved Solids	309	mg/L	10.0	10/11/23 15:31	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	10/17/23 17:02	H3
EPA 353.2	Nitrogen, Nitrate	1.4	mg/L	0.10	10/05/23 22:07	
EPA 365.1	Phosphate as P04	0.19	mg/L	0.15	10/17/23 14:45	
SM 5310C	Dissolved Organic Carbon	1.1	mg/L	1.0	10/16/23 20:01	
50355430004	MW-23I MS					
EPA 903.1	Radium-226	86.91 %REC ± NA (NA) C:NA T:NA	pCi/L		10/18/23 14:45	
EPA 904.0	Radium-228	112.10 %REC ± NA (NA) C:NA T:NA	pCi/L		10/16/23 13:04	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355430005	MW-23I MSD					
EPA 903.1	Radium-226	96.23 %REC 10.17RPD ± NA (NA) C:NA T:NA	pCi/L		10/18/23 14:45	
EPA 904.0	Radium-228	97.00 %REC 14.45RPD ± NA (NA) C:NA T:NA	pCi/L		10/16/23 13:04	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Sample: MW-23S **Lab ID: 50355430001** Collected: 10/04/23 14:00 Received: 10/04/23 18:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	4.3	mg/L	0.25	0.067	1		10/13/23 14:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 14:00	16984-48-8	
Sulfate	4.9	mg/L	0.25	0.19	1		10/13/23 14:00	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:08	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:08	7440-42-8	
Calcium	99700	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:08	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:08	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:08	7439-93-2	
Magnesium	28000	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:08	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:08	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:08	7439-98-7	
Potassium	ND	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:08	7440-09-7	
Silica	12300	ug/L	450		1	10/09/23 08:41	10/18/23 13:08	7631-86-9	N2
Sodium	4860	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:08	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:35	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:35	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	10/05/23 08:56	10/06/23 08:51	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/05/23 08:56	10/06/23 08:51	7440-38-2	
Barium	44.0	ug/L	1.0	0.067	1	10/05/23 08:56	10/06/23 08:51	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/05/23 08:56	10/06/23 08:51	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/05/23 08:56	10/06/23 08:51	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	335	mg/L	10.0	10.0	1		10/05/23 21:15		
Alkalinity,Bicarbonate (CaCO3)	335	mg/L	10.0	10.0	1		10/05/23 21:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 21:15		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	367	mg/L	10.0	10.0	1		10/11/23 15:30		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/17/23 17:01		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Sample: MW-23S		Lab ID: 50355430001		Collected: 10/04/23 14:00	Received: 10/04/23 18:21	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 16:04	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	8.2	mg/L	1.0	0.11	10		10/05/23 22:20	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	1.0	0.040	10		10/05/23 22:20	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:43			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 01:08	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.9	mg/L	1.0	0.24	1		10/16/23 19:20			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Sample: MW-23I **Lab ID: 50355430002** Collected: 10/04/23 12:15 Received: 10/04/23 18:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	10.9	mg/L	0.25	0.067	1		10/13/23 14:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 14:16	16984-48-8	
Sulfate	22.6	mg/L	0.25	0.19	1		10/13/23 14:16	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:09	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:09	7440-42-8	
Calcium	84100	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:09	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:09	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:09	7439-93-2	
Magnesium	23300	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:09	7439-95-4	
Manganese	40.2	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:09	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:09	7439-98-7	
Potassium	1340	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:09	7440-09-7	
Silica	15300	ug/L	450		1	10/09/23 08:41	10/18/23 13:09	7631-86-9	N2
Sodium	9160	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:09	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	39.5	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:36	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:36	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	10/05/23 08:56	10/06/23 08:54	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/05/23 08:56	10/06/23 08:54	7440-38-2	
Barium	29.4	ug/L	1.0	0.067	1	10/05/23 08:56	10/06/23 08:54	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/05/23 08:56	10/06/23 08:54	7440-48-4	
Selenium	5.1	ug/L	1.0	0.23	1	10/05/23 08:56	10/06/23 08:54	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	296	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Bicarbonate (CaCO3)	296	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 20:56		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	339	mg/L	10.0	10.0	1		10/11/23 15:30		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	8.0	Std. Units	0.10	0.10	1		10/17/23 16:59		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Sample: MW-23I		Lab ID: 50355430002		Collected: 10/04/23 12:15	Received: 10/04/23 18:21	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 10:14	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:55	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	8.6	mg/L	1.0	0.11	10		10/05/23 22:13	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	1.0	0.040	10		10/05/23 22:13	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:43			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.7	mg/L	1.0	0.24	1		10/14/23 01:33	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/16/23 19:30			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355430

Sample: MW-23D **Lab ID: 50355430003** Collected: 10/04/23 11:00 Received: 10/04/23 18:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	20.3	mg/L	2.5	0.67	10		10/13/23 16:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 16:27	16984-48-8	
Sulfate	37.5	mg/L	0.25	0.19	1		10/13/23 16:27	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	221	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:26	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:26	7440-42-8	
Calcium	74500	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:26	7440-70-2	
Iron	475	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:26	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:26	7439-93-2	
Magnesium	22100	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:26	7439-95-4	
Manganese	157	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:26	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:26	7439-98-7	
Potassium	1680	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:26	7440-09-7	
Silica	15500	ug/L	450		1	10/09/23 08:41	10/18/23 13:26	7631-86-9	N2
Sodium	14000	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:26	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	141	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:41	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:41	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	10/05/23 08:56	10/06/23 09:17	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/05/23 08:56	10/06/23 09:17	7440-38-2	
Barium	42.6	ug/L	1.0	0.067	1	10/05/23 08:56	10/06/23 09:17	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/05/23 08:56	10/06/23 09:17	7440-48-4	
Selenium	6.4	ug/L	1.0	0.23	1	10/05/23 08:56	10/06/23 09:17	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	628	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Bicarbonate (CaCO3)	628	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 20:56		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	309	mg/L	10.0	10.0	1		10/11/23 15:31		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		10/17/23 17:02		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Sample: MW-23D		Lab ID: 50355430003		Collected: 10/04/23 11:00	Received: 10/04/23 18:21	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:55	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	1.4	mg/L	0.10	0.011	1		10/05/23 22:07	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/05/23 22:07	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.19	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:45			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 02:38	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.1	mg/L	1.0	0.24	1		10/16/23 20:01			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch:	757163	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430001, 50355430002, 50355430003

METHOD BLANK: 3470086 Matrix: Water

Associated Lab Samples: 50355430001, 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/13/23 10:57	
Fluoride	mg/L	ND	0.10	0.017	10/13/23 10:57	
Sulfate	mg/L	ND	0.25	0.19	10/13/23 10:57	

LABORATORY CONTROL SAMPLE: 3470087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	97	80-120	
Fluoride	mg/L	1	1.1	106	80-120	
Sulfate	mg/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470088 3470089

Parameter	Units	50355430002		50355430003		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	10.9	25	25	33.1	33.4	89	90	80-120	1	15		
Fluoride	mg/L	ND	1	1	1.0	1.0	99	100	80-120	1	15		
Sulfate	mg/L	22.6	5	5	27.4	28.0	96	108	80-120	2	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355430

QC Batch: 755979 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430001, 50355430002, 50355430003

METHOD BLANK: 3464727 Matrix: Water

Associated Lab Samples: 50355430001, 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/18/23 12:49	
Boron	ug/L	ND	100	11.4	10/18/23 12:49	
Calcium	ug/L	ND	1000	56.7	10/18/23 12:49	
Iron	ug/L	ND	100	18.1	10/18/23 12:49	
Lithium	ug/L	ND	20.0	5.1	10/18/23 12:49	
Magnesium	ug/L	ND	1000	32.8	10/18/23 12:49	
Manganese	ug/L	ND	10.0	1.1	10/18/23 12:49	
Molybdenum	ug/L	ND	10.0	1.1	10/18/23 12:49	
Potassium	ug/L	ND	1000	120	10/18/23 12:49	
Silica	ug/L	ND	450		10/18/23 12:49	N2
Sodium	ug/L	ND	1000	48.2	10/18/23 12:49	

LABORATORY CONTROL SAMPLE: 3464728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	80-120	
Boron	ug/L	1000	999	100	80-120	
Calcium	ug/L	10000	10400	104	80-120	
Iron	ug/L	10000	9730	97	80-120	
Lithium	ug/L	1000	1020	102	80-120	
Magnesium	ug/L	10000	10000	100	80-120	
Manganese	ug/L	1000	993	99	80-120	
Molybdenum	ug/L	1000	1040	104	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10800	101	80-120	N2
Sodium	ug/L	10000	10200	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464729 3464730

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50355430002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	ND	10000	10000	10200	10000	101	100	75-125	1	20	
Boron	ug/L	ND	1000	1000	1020	1010	98	98	75-125	1	20	
Calcium	ug/L	84100	10000	10000	92200	92700	80	86	75-125	1	20	
Iron	ug/L	ND	10000	10000	9610	9520	96	95	75-125	1	20	
Lithium	ug/L	ND	1000	1000	1000	1020	100	102	75-125	2	20	
Magnesium	ug/L	23300	10000	10000	32600	32600	93	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464729 3464730														
Parameter	Units	50355430002		MS	MSD	3464730		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result							
Manganese	ug/L	40.2	1000	1000	1010	1010	97	97	75-125	0	20			
Molybdenum	ug/L	ND	1000	1000	1040	1030	104	103	75-125	1	20			
Potassium	ug/L	1340	10000	10000	11300	11400	99	101	75-125	1	20			
Silica	ug/L	15300	10700	10700	25800	25800	98	99	75-125	0	20	N2		
Sodium	ug/L	9160	10000	10000	18500	18800	93	97	75-125	2	20			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch:	755986	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430001, 50355430002, 50355430003

METHOD BLANK: 3464756 Matrix: Water

Associated Lab Samples: 50355430001, 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/17/23 15:12	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/17/23 15:12	

LABORATORY CONTROL SAMPLE: 3464757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	953	95	80-120	
Molybdenum, Dissolved	ug/L	1000	962	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464758 3464759

Parameter	Units	50355295001		3464759		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Manganese, Dissolved	ug/L	347	1000	1340	1270	99	92	75-125	5	20	
Molybdenum, Dissolved	ug/L	ND	1000	1040	989	103	99	75-125	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464760 3464761

Parameter	Units	50355430002		3464761		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Manganese, Dissolved	ug/L	39.5	1000	1010	995	97	96	75-125	2	20	
Molybdenum, Dissolved	ug/L	ND	1000	1010	993	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch:	755757	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430001, 50355430002, 50355430003

METHOD BLANK: 3463502 Matrix: Water

Associated Lab Samples: 50355430001, 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	10/06/23 08:25	
Arsenic	ug/L	ND	1.0	0.064	10/06/23 08:25	
Barium	ug/L	ND	1.0	0.067	10/06/23 08:25	
Cobalt	ug/L	ND	1.0	0.024	10/06/23 08:25	
Selenium	ug/L	ND	1.0	0.23	10/06/23 08:25	

LABORATORY CONTROL SAMPLE: 3463503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.4	101	80-120	
Arsenic	ug/L	40	39.4	99	80-120	
Barium	ug/L	40	39.9	100	80-120	
Cobalt	ug/L	40	40.6	102	80-120	
Selenium	ug/L	40	40.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463504 3463505

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355430002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.4	40.7	103	101	75-125	2	20
Arsenic	ug/L	ND	40	40	37.5	36.8	93	92	75-125	2	20
Barium	ug/L	29.4	40	40	72.1	69.3	107	100	75-125	4	20
Cobalt	ug/L	ND	40	40	39.0	38.0	97	94	75-125	2	20
Selenium	ug/L	5.1	40	40	45.2	43.4	100	96	75-125	4	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch: 755999

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430001

METHOD BLANK: 3464833

Matrix: Water

Associated Lab Samples: 50355430001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/05/23 21:15	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/05/23 21:15	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/05/23 21:15	

LABORATORY CONTROL SAMPLE: 3464834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.5	97	90-110	

SAMPLE DUPLICATE: 3464835

Parameter	Units	50355211001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	127	134	5	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	127	134	5	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3464836

Parameter	Units	50355295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	269	275	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	269	275	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch: 756000	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430002, 50355430003

METHOD BLANK: 3464838 Matrix: Water

Associated Lab Samples: 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/05/23 20:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/05/23 20:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/05/23 20:56	

LABORATORY CONTROL SAMPLE: 3464839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.5	97	90-110	

SAMPLE DUPLICATE: 3464840

Parameter	Units	50355178001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	253	256	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	253	256	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3464841

Parameter	Units	50355430002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	296	249	17	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	296	249	17	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch:	756707	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355430001, 50355430002, 50355430003		

METHOD BLANK: 3467869 Matrix: Water

Associated Lab Samples: 50355430001, 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/11/23 15:26	

LABORATORY CONTROL SAMPLE: 3467870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	280	93	80-120	

SAMPLE DUPLICATE: 3467871

Parameter	Units	50355400004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	336	340	1	10	

SAMPLE DUPLICATE: 3467872

Parameter	Units	50355430002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	339	345	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch: 757828

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430001, 50355430002, 50355430003

SAMPLE DUPLICATE: 3472959

Parameter	Units	50355430002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	7.9	1	2	H3

SAMPLE DUPLICATE: 3472960

Parameter	Units	50355500002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch:	756064	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430001, 50355430003

METHOD BLANK: 3465139 Matrix: Water

Associated Lab Samples: 50355430001, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/06/23 09:12	

LABORATORY CONTROL SAMPLE: 3465140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465141 3465142

Parameter	Units	50355295001		50355432004		3465141		3465142		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Sulfide	mg/L	ND	0.5	0.5	0.55	0.55	108	109	90-110	1	20		

MATRIX SPIKE SAMPLE: 3465143

Parameter	Units	50355432004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.54	107	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch: 756065	Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D	Analysis Description: 4500S2D Sulfide Water
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430002

METHOD BLANK: 3465144 Matrix: Water

Associated Lab Samples: 50355430002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/06/23 10:14	

LABORATORY CONTROL SAMPLE: 3465145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465146 3465147

Parameter	Units	3465146		3465147		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Sulfide	mg/L	ND	0.5	0.5	0.54	0.53	107	107	90-110	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch:	757789	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355430001, 50355430002, 50355430003			

METHOD BLANK: 3472804 Matrix: Water

Associated Lab Samples: 50355430001, 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/17/23 15:43	H3,N2

LABORATORY CONTROL SAMPLE: 3472805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472806 3472807

Parameter	Units	50355295001		3472807		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Iron, Ferrous	mg/L	ND	1	1	1.1	1.1	104	107	90-110	3	20	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472808 3472809

Parameter	Units	50355430002		3472809		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Iron, Ferrous	mg/L	ND	1	1	1.0	1.1	103	105	90-110	2	20	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch:	756012	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430002, 50355430003

METHOD BLANK: 3464911 Matrix: Water

Associated Lab Samples: 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/05/23 20:58	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/05/23 20:58	

LABORATORY CONTROL SAMPLE: 3464912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	103	90-110	
Nitrogen, Nitrite	mg/L	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 3464913

Parameter	Units	50355428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.4	1	2.4	103	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.98	97	90-110	

MATRIX SPIKE SAMPLE: 3464914

Parameter	Units	50355430002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	8.6	10	19.2	106	90-110	
Nitrogen, Nitrite	mg/L	ND	10	9.8	97	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch: 756013

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430001

METHOD BLANK: 3464916

Matrix: Water

Associated Lab Samples: 50355430001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/05/23 22:18	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/05/23 22:18	

LABORATORY CONTROL SAMPLE: 3464917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	
Nitrogen, Nitrite	mg/L	1	0.98	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464918 3464919

Parameter	Units	50355430001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	8.2	10	10	18.7	18.4	106	102	90-110	2	20	
Nitrogen, Nitrite	mg/L	ND	10	10	9.8	9.8	98	98	90-110	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch:	756941	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355430001, 50355430002, 50355430003

METHOD BLANK: 3469080 Matrix: Water
 Associated Lab Samples: 50355430001, 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/17/23 14:41	

LABORATORY CONTROL SAMPLE: 3469081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469082 3469083

Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.5	1.5				2		

MATRIX SPIKE SAMPLE: 3469084

Parameter	Units	50355432005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	ND		1.6			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355430

QC Batch: 757253 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355430001, 50355430002, 50355430003

METHOD BLANK: 3470549 Matrix: Water
 Associated Lab Samples: 50355430001, 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/13/23 19:02	

LABORATORY CONTROL SAMPLE: 3470550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470551 3470552

Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.7	10	10	11.2	11.2	94	95	80-120	1	20	

MATRIX SPIKE SAMPLE: 3470553

Parameter	Units	50355430003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	10.1	95	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355430

QC Batch: 757541 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355430001, 50355430002, 50355430003

METHOD BLANK: 3471990 Matrix: Water
 Associated Lab Samples: 50355430001, 50355430002, 50355430003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/16/23 18:56	

LABORATORY CONTROL SAMPLE: 3471991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471992 3471993

Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.4	10	10	10.7	10.7	93	93	80-120	0	20	

MATRIX SPIKE SAMPLE: 3471994

Parameter	Units	50355430003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	10	10.7	96	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0766 ± 0.498 (1.00) C:NA T:84%	pCi/L	10/18/23 14:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.304 ± 0.389 (0.829) C:79% T:84%	pCi/L	10/16/23 13:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.381 ± 0.887 (1.83)	pCi/L	10/19/23 11:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0686 ± 0.554 (1.14) C:NA T:82%	pCi/L	10/18/23 14:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.377 ± 0.344 (0.699) C:80% T:83%	pCi/L	10/16/23 13:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.377 ± 0.898 (1.84)	pCi/L	10/19/23 11:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-23D Lab ID: 50355430003 Collected: 10/04/23 11:00 Received: 10/04/23 18:21 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.638 ± 0.589 (0.858) C:NA T:86%	pCi/L	10/18/23 14:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.602 ± 0.393 (0.746) C:81% T:81%	pCi/L	10/16/23 13:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.24 ± 0.982 (1.60)	pCi/L	10/19/23 11:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-231 MS Lab ID: 50355430004 Collected: 10/04/23 12:15 Received: 10/04/23 18:21 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	86.91 %REC ± NA (NA) C:NA T:NA	pCi/L	10/18/23 14:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	112.10 %REC ± NA (NA) C:NA T:NA	pCi/L	10/16/23 13:04	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Sample: MW-23I MSD	Lab ID: 50355430005	Collected: 10/04/23 12:15	Received: 10/04/23 18:21	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	96.23 %REC 10.17RPD ± NA (NA) C:NA T:NA	pCi/L	10/18/23 14:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	97.00 %REC 14.45RPD ± NA (NA) C:NA T:NA	pCi/L	10/16/23 13:04	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch: 621249

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: 50355430001, 50355430002, 50355430003, 50355430004, 50355430005

METHOD BLANK: 3027551

Matrix: Water

Associated Lab Samples: 50355430001, 50355430002, 50355430003, 50355430004, 50355430005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0704 ± 0.321 (0.654) C:NA T:81%	pCi/L	10/18/23 14:33	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

QC Batch: 621250

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: 50355430001, 50355430002, 50355430003, 50355430004, 50355430005

METHOD BLANK: 3027552

Matrix: Water

Associated Lab Samples: 50355430001, 50355430002, 50355430003, 50355430004, 50355430005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.220 ± 0.311 (0.666) C:79% T:85%	pCi/L	10/16/23 13:07	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355430001	MW-23S	EPA 9056	757163		
50355430002	MW-23I	EPA 9056	757163		
50355430003	MW-23D	EPA 9056	757163		
50355430001	MW-23S	EPA 3010	755979	EPA 6010	757980
50355430002	MW-23I	EPA 3010	755979	EPA 6010	757980
50355430003	MW-23D	EPA 3010	755979	EPA 6010	757980
50355430001	MW-23S	EPA 3010	755986	EPA 6010	757792
50355430002	MW-23I	EPA 3010	755986	EPA 6010	757792
50355430003	MW-23D	EPA 3010	755986	EPA 6010	757792
50355430001	MW-23S	EPA 200.2	755757	EPA 6020	755952
50355430002	MW-23I	EPA 200.2	755757	EPA 6020	755952
50355430003	MW-23D	EPA 200.2	755757	EPA 6020	755952
50355430001	MW-23S	EPA 903.1	621249		
50355430002	MW-23I	EPA 903.1	621249		
50355430003	MW-23D	EPA 903.1	621249		
50355430004	MW-23I MS	EPA 903.1	621249		
50355430005	MW-23I MSD	EPA 903.1	621249		
50355430001	MW-23S	EPA 904.0	621250		
50355430002	MW-23I	EPA 904.0	621250		
50355430003	MW-23D	EPA 904.0	621250		
50355430004	MW-23I MS	EPA 904.0	621250		
50355430005	MW-23I MSD	EPA 904.0	621250		
50355430001	MW-23S	Total Radium Calculation	623533		
50355430002	MW-23I	Total Radium Calculation	623533		
50355430003	MW-23D	Total Radium Calculation	623533		
50355430001	MW-23S	SM 2320B	755999		
50355430002	MW-23I	SM 2320B	756000		
50355430003	MW-23D	SM 2320B	756000		
50355430001	MW-23S	SM 2540C	756707		
50355430002	MW-23I	SM 2540C	756707		
50355430003	MW-23D	SM 2540C	756707		
50355430001	MW-23S	SM 4500-H+B	757828		
50355430002	MW-23I	SM 4500-H+B	757828		
50355430003	MW-23D	SM 4500-H+B	757828		
50355430001	MW-23S	SM 4500-S2-D	756064		
50355430002	MW-23I	SM 4500-S2-D	756065		
50355430003	MW-23D	SM 4500-S2-D	756064		
50355430001	MW-23S	HACH 8146	757789		
50355430002	MW-23I	HACH 8146	757789		
50355430003	MW-23D	HACH 8146	757789		
50355430001	MW-23S	EPA 353.2	756013		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355430

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355430002	MW-23I	EPA 353.2	756012		
50355430003	MW-23D	EPA 353.2	756012		
50355430001	MW-23S	EPA 365.1	756941	EPA 365.1	757845
50355430002	MW-23I	EPA 365.1	756941	EPA 365.1	757845
50355430003	MW-23D	EPA 365.1	756941	EPA 365.1	757845
50355430001	MW-23S	SM 5310C	757253		
50355430002	MW-23I	SM 5310C	757253		
50355430003	MW-23D	SM 5310C	757253		
50355430001	MW-23S	SM 5310C	757541		
50355430002	MW-23I	SM 5310C	757541		
50355430003	MW-23D	SM 5310C	757541		

REPORT OF LABORATORY ANALYSIS

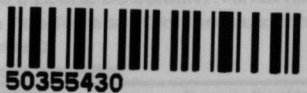
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CHAIN-OF-CUSTODY

WO# : 50355430

The Chain-of-Custody Form is to be filled out accurately. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Chain-of-Custody Standard Terms and Conditions located at [http://www.pacelabs.com/pas-standard-terms.pdf](#).



Section A
Required Client Information:
 Company: Atlas Indianapolis
 Address: 7988 Centerpoint Drive, Suite 100, Indianapolis, IN 46256
 Email: mark.breting@oneatlas.com
 Phone: 317-313-8306 Fax:
 Requested Due Date:

Section B
Required Project Information:
 Report To: Mark Breting
 Copy To: **PIR4**
 Purchase Order #:
 Project Name: Eagle Valley October 2023
 Project #:

Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: will.statz@pacelabs.com
 Pace Profile #: 10498/46

Regulatory Agency
 State / Location
 IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Y/N	Requested Analysis Filtered (Y/N)													
					DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other		Total Metals by 6010/6020	Dis metals by 6010	TDS by 2540C	TOC by 5310	DOC by 5310	Alkalinity / pH / Ferrous Fe	NO2/NO3 by 363.2	Sulfide by 4500	Total Phos by 365.1	C. F. SO4 by 9056	Rad 226/228 + SUM to Pitt	Residual Chlorine (Y/N)		
1	MW-235				10-4-23	1400			11	3	3	4	1																				
2	MW-23I					1215																											
3	MW-23D					1100																											
4	MS-4					1215																											
5	MSD-4					1215																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NO2/NO3 has a SH time of 48 hours	J. Hill / Atlas	10-4-23		T. Harrold	10/4/23	1821	4.3 Y Y Y
6020 - Co, As, Se, Sb, Ba (5)							
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, silica (11)							
6010 Dis - Mn, Mo (2)							

ms/msd-4 → mw-23I

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Jon Hill
 SIGNATURE of SAMPLER:
 DATE Signed: 10.4.23

TEMP in C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/4/23 18:21 TH

- 1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No
(If yes)Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H (H)
- 4. Cooler Temperature(s):

<u>43/4.3</u>	<u>1.1/1.1</u>	<u>2.0/2.0</u>	<u>1.0/1.0</u>
---------------	----------------	----------------	----------------

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
- 6. Ice Type: Wet Blue None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO2/NO3</u>	✓		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	✓		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
		✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?			
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS: 1.4/1.4.

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	MeOH (only)			AMBER GLASS												PLASTIC							OTHER			Matrix																				
	WGKU	WGKU	BG1U	R	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3D	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc												
	SBS				DI																		Red	Yellow	Green	Black																				
																							HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9																				
1															1	1			2	1	2	1	1	1		1					3	3	3	3	3	3	3									
2															3	3			6	3	6	3	3	3		3																				
3															1	1			2	1	2	1	1	1		1																				
4																																														
5																																														
6																																														
7																																														
8																																														
9																																														
10																																														
11																																														
12																																														

Container Codes

Glass	
DG9H	40mL HCl amber voa vial
DG9P	40mL TSP amber vial
DG9S	40mL H2SO4 amber vial
DG9T	40mL Na Thio amber vial
DG9U	40mL unpreserved amber vial
VG9H	40mL HCl clear vial
VG9T	40mL Na Thio. clear vial
VG9U	40mL unpreserved clear vial
I	40mL w/hexane wipe vial
WGKU	8oz unpreserved clear jar
WGFU	4oz clear soil jar
JGFU	4oz unpreserved amber wide
CG3H	250mL clear glass HCl
CG3F	250mL clear glass HCl, Field Filter
BG1H	1L HCl clear glass
BG1S	1L H2SO4 clear glass
BG1T	glass
BG1U	1L unpreserved glass
CG3U	250mL Unpres Clear Glass
AG0U	100mL unpres amber glass
AG1H	1L HCl amber glass
AG1S	1L H2SO4 amber glass
AG1T	1L Na Thiosulfate amber glass
AG1U	1liter unpres amber glass
AG2N	500mL HNO3 amber glass
AG2S	500mL H2SO4 amber glass
AG2U	500mL unpres amber glass
AG3S	250mL H2SO4 amber glass
AG3SF	250mL H2SO4 amb glass -field filtered
AG3U	250mL unpres amber glass
AG3B	250mL NaOH amber glass

Plastic	
BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP3R	250mL Unpres FF SO4/OH buffer
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



February 08, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355432

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355432

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355432001	MW-19S	Water	10/04/23 10:50	10/04/23 18:21
50355432002	MW-19I	Water	10/04/23 11:45	10/04/23 18:21
50355432003	MW-19D	Water	10/04/23 12:40	10/04/23 18:21
50355432004	MW-21S	Water	10/04/23 13:15	10/04/23 18:21
50355432005	MW-21I	Water	10/04/23 11:20	10/04/23 18:21
50355432006	MW-22S	Water	10/04/23 15:55	10/04/23 18:21
50355432007	Dup-8	Water	10/04/23 08:00	10/04/23 18:21

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50355432001	MW-19S	EPA 9056	KBB	3	PASI-I		
		EPA 6010	MTM	11	PASI-I		
		EPA 6010	MTM	2	PASI-I		
		EPA 6020	CAW	5	PASI-I		
		EPA 903.1	CLM	1	PASI-PA		
		EPA 904.0	ZPC	1	PASI-PA		
		Total Radium Calculation	JAL	1	PASI-PA		
		SM 2320B	DAW	3	PASI-I		
		SM 2540C	IRH	1	PASI-I		
		SM 4500-H+B	LHZ	1	PASI-I		
		SM 4500-S2-D	STS	1	PASI-I		
		HACH 8146	BEP	1	PASI-I		
		EPA 353.2	DAW	2	PASI-I		
		EPA 365.1	YAM	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		50355432002	MW-19I	EPA 9056	KBB	3	PASI-I
				EPA 6010	MTM	11	PASI-I
EPA 6010	MTM			2	PASI-I		
EPA 6020	CAW			5	PASI-I		
EPA 903.1	CLM			1	PASI-PA		
EPA 904.0	ZPC			1	PASI-PA		
Total Radium Calculation	JAL			1	PASI-PA		
SM 2320B	DAW			3	PASI-I		
SM 2540C	IRH			1	PASI-I		
SM 4500-H+B	LHZ			1	PASI-I		
SM 4500-S2-D	STS			1	PASI-I		
HACH 8146	BEP			1	PASI-I		
EPA 353.2	DAW			2	PASI-I		
EPA 365.1	YAM			1	PASI-I		
SM 5310C	ATS			1	PASI-I		
SM 5310C	ATS			1	PASI-I		
50355432003	MW-19D			EPA 9056	KBB	3	PASI-I
				EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I		
		EPA 6020	CAW	5	PASI-I		
		EPA 903.1	CLM	1	PASI-PA		

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355432004	MW-21S	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	BEP	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
SM 4500-H+B	LHZ	1	PASI-I		
SM 4500-S2-D	STS	1	PASI-I		
HACH 8146	BEP	1	PASI-I		
EPA 353.2	DAW	2	PASI-I		
EPA 365.1	YAM	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
50355432005	MW-21I	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50355432006	MW-22S	SM 4500-S2-D	STS	1	PASI-I		
		HACH 8146	BEP	1	PASI-I		
		EPA 353.2	DAW	2	PASI-I		
		EPA 365.1	YAM	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		EPA 9056	KBB	3	PASI-I		
		EPA 6010	MTM	11	PASI-I		
		EPA 6010	MTM	2	PASI-I		
		EPA 6020	CAW	5	PASI-I		
		EPA 903.1	CLM	1	PASI-PA		
		EPA 904.0	ZPC	1	PASI-PA		
		Total Radium Calculation	JAL	1	PASI-PA		
		SM 2320B	DAW	3	PASI-I		
		SM 2540C	IRH	1	PASI-I		
		SM 4500-H+B	LHZ	1	PASI-I		
		SM 4500-S2-D	STS	1	PASI-I		
		HACH 8146	BEP	1	PASI-I		
		50355432007	Dup-8	EPA 353.2	DAW	2	PASI-I
				EPA 365.1	YAM	1	PASI-I
SM 5310C	ATS			1	PASI-I		
SM 5310C	ATS			1	PASI-I		
EPA 9056	KBB			3	PASI-I		
EPA 6010	MTM			11	PASI-I		
EPA 6010	MTM			2	PASI-I		
EPA 6020	CAW			5	PASI-I		
EPA 903.1	CLM			1	PASI-PA		
EPA 904.0	ZPC			1	PASI-PA		
Total Radium Calculation	JAL			1	PASI-PA		
SM 2320B	DAW			3	PASI-I		
SM 2540C	IRH			1	PASI-I		
SM 4500-H+B	LHZ			1	PASI-I		
SM 4500-S2-D	STS			1	PASI-I		
HACH 8146	BEP			1	PASI-I		
EPA 353.2	DAW			2	PASI-I		
EPA 365.1	YAM			1	PASI-I		
SM 5310C	ATS			1	PASI-I		

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355432001	MW-19S					
EPA 9056	Chloride	3.6	mg/L	0.25	10/13/23 17:01	
EPA 9056	Sulfate	13.6	mg/L	0.25	10/13/23 17:01	
EPA 6010	Aluminum	859	ug/L	200	10/18/23 13:27	
EPA 6010	Boron	208	ug/L	100	10/18/23 13:27	
EPA 6010	Calcium	114000	ug/L	1000	10/18/23 13:27	
EPA 6010	Iron	2550	ug/L	100	10/18/23 13:27	
EPA 6010	Magnesium	29600	ug/L	1000	10/18/23 13:27	
EPA 6010	Manganese	333	ug/L	10.0	10/18/23 13:27	
EPA 6010	Potassium	2250	ug/L	1000	10/18/23 13:27	
EPA 6010	Silica	14600	ug/L	450	10/18/23 13:27	N2
EPA 6010	Sodium	9850	ug/L	1000	10/18/23 13:27	
EPA 6020	Arsenic	3.6	ug/L	1.0	10/10/23 09:29	
EPA 6020	Barium	40.1	ug/L	1.0	10/10/23 09:29	
EPA 6020	Cobalt	2.5	ug/L	1.0	10/10/23 09:29	
EPA 6020	Selenium	1.0	ug/L	1.0	10/10/23 09:29	
EPA 903.1	Radium-226	0.321 ± 0.629	pCi/L		10/20/23 12:47	
		(1.13) C:NA T:93%				
EPA 904.0	Radium-228	0.952 ± 0.563 (1.06) C:76% T:79%	pCi/L		10/19/23 15:32	
Total Radium Calculation	Total Radium	1.27 ± 1.19 (2.19)	pCi/L		10/24/23 08:04	
SM 2320B	Alkalinity, Total as CaCO3	568	mg/L	10.0	10/05/23 20:56	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	568	mg/L	10.0	10/05/23 20:56	
SM 2540C	Total Dissolved Solids	400	mg/L	10.0	10/11/23 15:31	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/17/23 17:03	H3
EPA 353.2	Nitrogen, Nitrate	8.2	mg/L	0.50	10/05/23 22:05	
SM 5310C	Dissolved Organic Carbon	1.7	mg/L	1.0	10/16/23 20:21	
50355432002	MW-19I					
EPA 9056	Chloride	90.2	mg/L	2.5	10/13/23 17:35	
EPA 9056	Sulfate	146	mg/L	2.5	10/13/23 17:35	
EPA 6010	Boron	4730	ug/L	100	10/18/23 13:29	
EPA 6010	Calcium	105000	ug/L	1000	10/18/23 13:29	
EPA 6010	Lithium	88.7	ug/L	20.0	10/18/23 13:29	
EPA 6010	Magnesium	22900	ug/L	1000	10/18/23 13:29	
EPA 6010	Manganese	78.0	ug/L	10.0	10/18/23 13:29	
EPA 6010	Molybdenum	134	ug/L	10.0	10/18/23 13:29	
EPA 6010	Potassium	6660	ug/L	1000	10/18/23 13:29	
EPA 6010	Silica	13700	ug/L	450	10/18/23 13:29	N2
EPA 6010	Sodium	83300	ug/L	1000	10/18/23 13:29	
EPA 6010	Manganese, Dissolved	76.8	ug/L	10.0	10/17/23 15:47	
EPA 6010	Molybdenum, Dissolved	133	ug/L	10.0	10/17/23 15:47	
EPA 6020	Barium	54.4	ug/L	1.0	10/10/23 09:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355432002	MW-19I					
EPA 903.1	Radium-226	1.09 ± 0.955 (1.46) C:NA T:89%	pCi/L		10/20/23 12:47	
EPA 904.0	Radium-228	1.04 ± 0.534 (0.952) C:76% T:82%	pCi/L		10/19/23 15:33	
Total Radium Calculation	Total Radium	2.13 ± 1.49 (2.41)	pCi/L		10/24/23 08:04	
SM 2320B	Alkalinity, Total as CaCO3	280	mg/L	10.0	10/05/23 20:56	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	280	mg/L	10.0	10/05/23 20:56	
SM 2540C	Total Dissolved Solids	626	mg/L	10.0	10/11/23 15:31	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	10/17/23 17:04	H3
EPA 353.2	Nitrogen, Nitrate	0.10	mg/L	0.10	10/05/23 21:24	
SM 5310C	Dissolved Organic Carbon	1.7	mg/L	1.0	10/16/23 20:31	
50355432003	MW-19D					
EPA 9056	Chloride	134	mg/L	25.0	10/13/23 18:25	
EPA 9056	Sulfate	209	mg/L	2.5	10/13/23 18:08	
EPA 6010	Boron	5670	ug/L	100	10/18/23 13:30	
EPA 6010	Calcium	118000	ug/L	1000	10/18/23 13:30	
EPA 6010	Iron	104	ug/L	100	10/18/23 13:30	
EPA 6010	Lithium	34.2	ug/L	20.0	10/18/23 13:30	
EPA 6010	Magnesium	27700	ug/L	1000	10/18/23 13:30	
EPA 6010	Manganese	370	ug/L	10.0	10/18/23 13:30	
EPA 6010	Molybdenum	22.7	ug/L	10.0	10/18/23 13:30	
EPA 6010	Potassium	4090	ug/L	1000	10/18/23 13:30	
EPA 6010	Silica	14100	ug/L	450	10/18/23 13:30	N2
EPA 6010	Sodium	103000	ug/L	1000	10/18/23 13:30	
EPA 6010	Manganese, Dissolved	371	ug/L	10.0	10/17/23 15:49	
EPA 6010	Molybdenum, Dissolved	22.7	ug/L	10.0	10/17/23 15:49	
EPA 6020	Barium	45.8	ug/L	1.0	10/10/23 09:43	
EPA 903.1	Radium-226	0.799 ± 0.803 (1.25) C:NA T:89%	pCi/L		10/20/23 12:47	
EPA 904.0	Radium-228	0.892 ± 0.511 (0.952) C:74% T:85%	pCi/L		10/19/23 15:33	
Total Radium Calculation	Total Radium	1.69 ± 1.31 (2.20)	pCi/L		10/24/23 08:04	
SM 2320B	Alkalinity, Total as CaCO3	244	mg/L	10.0	10/05/23 20:56	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	10/05/23 20:56	
SM 2540C	Total Dissolved Solids	752	mg/L	10.0	10/11/23 15:32	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	10/17/23 17:04	H3
SM 5310C	Dissolved Organic Carbon	1.5	mg/L	1.0	10/16/23 21:01	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355432

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355432004	MW-21S					
EPA 9056	Chloride	52.0	mg/L	2.5	10/13/23 18:59	
EPA 9056	Fluoride	0.16	mg/L	0.10	10/13/23 18:42	
EPA 9056	Sulfate	33.2	mg/L	0.25	10/13/23 18:42	
EPA 6010	Calcium	63000	ug/L	1000	10/18/23 13:32	
EPA 6010	Magnesium	18100	ug/L	1000	10/18/23 13:32	
EPA 6010	Manganese	184	ug/L	10.0	10/18/23 13:32	
EPA 6010	Potassium	3100	ug/L	1000	10/18/23 13:32	
EPA 6010	Silica	7680	ug/L	450	10/18/23 13:32	N2
EPA 6010	Sodium	37000	ug/L	1000	10/18/23 13:32	
EPA 6010	Manganese, Dissolved	148	ug/L	10.0	10/17/23 15:50	
EPA 6020	Barium	23.5	ug/L	1.0	10/10/23 09:46	
EPA 903.1	Radium-226	0.000 ± 0.839 (1.65) C:NA T:91%	pCi/L		10/20/23 12:47	
EPA 904.0	Radium-228	0.348 ± 0.477 (1.02) C:74% T:82%	pCi/L		10/19/23 15:33	
Total Radium Calculation	Total Radium	0.348 ± 1.32 (2.67)	pCi/L		10/24/23 08:04	
SM 2320B	Alkalinity, Total as CaCO3	211	mg/L	10.0	10/05/23 20:56	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	211	mg/L	10.0	10/05/23 20:56	
SM 2540C	Total Dissolved Solids	344	mg/L	10.0	10/11/23 15:32	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	10/17/23 17:05	H3
EPA 353.2	Nitrogen, Nitrate	0.47	mg/L	0.10	10/05/23 21:45	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	10/14/23 05:18	
SM 5310C	Dissolved Organic Carbon	3.3	mg/L	1.0	10/16/23 21:11	
50355432005	MW-21I					
EPA 9056	Chloride	22.4	mg/L	2.5	10/13/23 20:06	
EPA 9056	Sulfate	37.5	mg/L	0.25	10/13/23 19:50	
EPA 6010	Calcium	93000	ug/L	1000	10/18/23 13:33	
EPA 6010	Magnesium	26600	ug/L	1000	10/18/23 13:33	
EPA 6010	Manganese	109	ug/L	10.0	10/18/23 13:33	
EPA 6010	Potassium	1590	ug/L	1000	10/18/23 13:33	
EPA 6010	Silica	12400	ug/L	450	10/18/23 13:33	N2
EPA 6010	Sodium	10100	ug/L	1000	10/18/23 13:33	
EPA 6010	Manganese, Dissolved	111	ug/L	10.0	10/17/23 15:52	
EPA 6020	Barium	74.2	ug/L	1.0	10/10/23 09:49	
EPA 6020	Selenium	6.7	ug/L	1.0	10/10/23 09:49	
EPA 903.1	Radium-226	0.473 ± 0.767 (1.33) C:NA T:90%	pCi/L		10/20/23 12:47	
EPA 904.0	Radium-228	0.285 ± 0.395 (0.847) C:81% T:79%	pCi/L		10/19/23 15:33	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355432

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355432005	MW-21I					
Total Radium Calculation	Total Radium	0.758 ± 1.16 (2.18)	pCi/L		10/24/23 08:04	
SM 2320B	Alkalinity, Total as CaCO3	589	mg/L	10.0	10/05/23 20:56	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	589	mg/L	10.0	10/05/23 20:56	
SM 2540C	Total Dissolved Solids	361	mg/L	10.0	10/11/23 15:32	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	10/17/23 17:05	H3
EPA 353.2	Nitrogen, Nitrate	7.0	mg/L	0.50	10/05/23 22:09	
SM 5310C	Dissolved Organic Carbon	1.9	mg/L	1.0	10/16/23 21:21	
50355432006	MW-22S					
EPA 9056	Chloride	33.6	mg/L	2.5	10/13/23 20:57	
EPA 9056	Sulfate	39.4	mg/L	0.25	10/13/23 20:40	
EPA 6010	Calcium	102000	ug/L	1000	10/18/23 13:44	
EPA 6010	Magnesium	26300	ug/L	1000	10/18/23 13:44	
EPA 6010	Manganese	1360	ug/L	10.0	10/18/23 13:44	
EPA 6010	Potassium	1360	ug/L	1000	10/18/23 13:44	
EPA 6010	Silica	11800	ug/L	450	10/18/23 13:44	N2
EPA 6010	Sodium	30400	ug/L	1000	10/18/23 13:44	
EPA 6010	Manganese, Dissolved	817	ug/L	10.0	10/17/23 15:53	
EPA 6020	Barium	41.4	ug/L	1.0	10/10/23 09:59	
EPA 6020	Cobalt	1.0	ug/L	1.0	10/10/23 09:59	
EPA 6020	Selenium	2.0	ug/L	1.0	10/10/23 09:59	
EPA 903.1	Radium-226	0.0878 ± 0.621 (1.24) C:NA T:86%	pCi/L		10/20/23 13:01	
EPA 904.0	Radium-228	0.0596 ± 0.385 (0.882) C:75% T:80%	pCi/L		10/19/23 15:34	
Total Radium Calculation	Total Radium	0.147 ± 1.01 (2.12)	pCi/L		10/24/23 08:04	
SM 2320B	Alkalinity, Total as CaCO3	332	mg/L	10.0	10/05/23 20:56	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	332	mg/L	10.0	10/05/23 20:56	
SM 2540C	Total Dissolved Solids	437	mg/L	10.0	10/11/23 15:32	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	10/17/23 17:06	H3
EPA 353.2	Nitrogen, Nitrate	2.7	mg/L	0.10	10/05/23 22:00	
SM 5310C	Total Organic Carbon	1.2	mg/L	1.0	10/14/23 06:08	
SM 5310C	Dissolved Organic Carbon	2.1	mg/L	1.0	10/16/23 21:31	
50355432007	Dup-8					
EPA 9056	Chloride	133	mg/L	25.0	10/13/23 21:48	
EPA 9056	Sulfate	210	mg/L	2.5	10/13/23 21:31	
EPA 6010	Boron	5640	ug/L	100	10/18/23 13:46	
EPA 6010	Calcium	118000	ug/L	1000	10/18/23 13:46	
EPA 6010	Iron	112	ug/L	100	10/18/23 13:46	
EPA 6010	Lithium	34.6	ug/L	20.0	10/18/23 13:46	
EPA 6010	Magnesium	27500	ug/L	1000	10/18/23 13:46	
EPA 6010	Manganese	366	ug/L	10.0	10/18/23 13:46	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355432007	Dup-8					
EPA 6010	Molybdenum	21.8	ug/L	10.0	10/18/23 13:46	
EPA 6010	Potassium	4070	ug/L	1000	10/18/23 13:46	
EPA 6010	Silica	14100	ug/L	450	10/18/23 13:46	N2
EPA 6010	Sodium	102000	ug/L	1000	10/18/23 13:46	
EPA 6010	Manganese, Dissolved	368	ug/L	10.0	10/17/23 15:55	
EPA 6010	Molybdenum, Dissolved	22.2	ug/L	10.0	10/17/23 15:55	
EPA 6020	Barium	45.9	ug/L	1.0	10/10/23 10:03	
EPA 903.1	Radium-226	0.178 ± 0.606 (1.17) C:NA T:88%	pCi/L		10/20/23 13:01	
EPA 904.0	Radium-228	0.401 ± 0.355 (0.713) C:77% T:83%	pCi/L		10/19/23 15:34	
Total Radium Calculation	Total Radium	0.579 ± 0.961 (1.88)	pCi/L		10/24/23 08:04	
SM 2320B	Alkalinity, Total as CaCO3	244	mg/L	10.0	10/05/23 20:56	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	10/05/23 20:56	
SM 2540C	Total Dissolved Solids	749	mg/L	10.0	10/11/23 15:39	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/17/23 17:06	H3
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	10/16/23 21:41	

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355432

Sample: MW-19S **Lab ID: 50355432001** Collected: 10/04/23 10:50 Received: 10/04/23 18:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	3.6	mg/L	0.25	0.067	1		10/13/23 17:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 17:01	16984-48-8	
Sulfate	13.6	mg/L	0.25	0.19	1		10/13/23 17:01	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	859	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:27	7429-90-5	
Boron	208	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:27	7440-42-8	
Calcium	114000	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:27	7440-70-2	
Iron	2550	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:27	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:27	7439-93-2	
Magnesium	29600	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:27	7439-95-4	
Manganese	333	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:27	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:27	7439-98-7	
Potassium	2250	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:27	7440-09-7	
Silica	14600	ug/L	450		1	10/09/23 08:41	10/18/23 13:27	7631-86-9	N2
Sodium	9850	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:27	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:42	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:42	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 09:29	7440-36-0	
Arsenic	3.6	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 09:29	7440-38-2	
Barium	40.1	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 09:29	7440-39-3	
Cobalt	2.5	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 09:29	7440-48-4	
Selenium	1.0	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 09:29	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	568	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Bicarbonate (CaCO3)	568	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 20:56		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	400	mg/L	10.0	10.0	1		10/11/23 15:31		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/17/23 17:03		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-19S		Lab ID: 50355432001		Collected: 10/04/23 10:50	Received: 10/04/23 18:21	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:54	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	8.2	mg/L	0.50	0.055	5		10/05/23 22:05	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.50	0.020	5		10/05/23 22:05	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:46			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 03:23	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.7	mg/L	1.0	0.24	1		10/16/23 20:21			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-191 **Lab ID: 50355432002** Collected: 10/04/23 11:45 Received: 10/04/23 18:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	90.2	mg/L	2.5	0.67	10		10/13/23 17:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 17:18	16984-48-8	
Sulfate	146	mg/L	2.5	1.9	10		10/13/23 17:35	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:29	7429-90-5	
Boron	4730	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:29	7440-42-8	
Calcium	105000	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:29	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:29	7439-89-6	
Lithium	88.7	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:29	7439-93-2	
Magnesium	22900	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:29	7439-95-4	
Manganese	78.0	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:29	7439-96-5	
Molybdenum	134	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:29	7439-98-7	
Potassium	6660	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:29	7440-09-7	
Silica	13700	ug/L	450		1	10/09/23 08:41	10/18/23 13:29	7631-86-9	N2
Sodium	83300	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:29	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	76.8	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:47	7439-96-5	
Molybdenum, Dissolved	133	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:47	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 09:33	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 09:33	7440-38-2	
Barium	54.4	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 09:33	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 09:33	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 09:33	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	280	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Bicarbonate (CaCO3)	280	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 20:56		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	626	mg/L	10.0	10.0	1		10/11/23 15:31		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.9	Std. Units	0.10	0.10	1		10/17/23 17:04		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-19I		Lab ID: 50355432002		Collected: 10/04/23 11:45	Received: 10/04/23 18:21	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:55	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	0.10	mg/L	0.10	0.011	1		10/05/23 21:24	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/05/23 21:24	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:48		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 04:27	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.7	mg/L	1.0	0.24	1		10/16/23 20:31		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355432

Sample: MW-19D **Lab ID: 50355432003** Collected: 10/04/23 12:40 Received: 10/04/23 18:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	134	mg/L	25.0	6.7	100		10/13/23 18:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 17:51	16984-48-8	
Sulfate	209	mg/L	2.5	1.9	10		10/13/23 18:08	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:30	7429-90-5	
Boron	5670	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:30	7440-42-8	
Calcium	118000	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:30	7440-70-2	
Iron	104	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:30	7439-89-6	
Lithium	34.2	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:30	7439-93-2	
Magnesium	27700	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:30	7439-95-4	
Manganese	370	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:30	7439-96-5	
Molybdenum	22.7	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:30	7439-98-7	
Potassium	4090	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:30	7440-09-7	
Silica	14100	ug/L	450		1	10/09/23 08:41	10/18/23 13:30	7631-86-9	N2
Sodium	103000	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:30	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	371	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:49	7439-96-5	
Molybdenum, Dissolved	22.7	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:49	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 09:43	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 09:43	7440-38-2	
Barium	45.8	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 09:43	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 09:43	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 09:43	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	244	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 20:56		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	752	mg/L	10.0	10.0	1		10/11/23 15:32		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		10/17/23 17:04		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-19D		Lab ID: 50355432003		Collected: 10/04/23 12:40	Received: 10/04/23 18:21	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 16:04	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/05/23 21:43	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/05/23 21:43	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:48			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 04:52	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.5	mg/L	1.0	0.24	1		10/16/23 21:01			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-21S		Lab ID: 50355432004		Collected: 10/04/23 13:15	Received: 10/04/23 18:21	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Chloride	52.0	mg/L	2.5	0.67	10		10/13/23 18:59	16887-00-6		
Fluoride	0.16	mg/L	0.10	0.017	1		10/13/23 18:42	16984-48-8		
Sulfate	33.2	mg/L	0.25	0.19	1		10/13/23 18:42	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis								
Aluminum	ND	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:32	7429-90-5		
Boron	ND	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:32	7440-42-8		
Calcium	63000	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:32	7440-70-2		
Iron	ND	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:32	7439-89-6		
Lithium	ND	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:32	7439-93-2		
Magnesium	18100	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:32	7439-95-4		
Manganese	184	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:32	7439-96-5		
Molybdenum	ND	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:32	7439-98-7		
Potassium	3100	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:32	7440-09-7		
Silica	7680	ug/L	450		1	10/09/23 08:41	10/18/23 13:32	7631-86-9	N2	
Sodium	37000	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:32	7440-23-5		
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis								
Manganese, Dissolved	148	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:50	7439-96-5		
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:50	7439-98-7		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 09:46	7440-36-0		
Arsenic	ND	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 09:46	7440-38-2		
Barium	23.5	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 09:46	7440-39-3		
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 09:46	7440-48-4		
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 09:46	7782-49-2		
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	211	mg/L	10.0	10.0	1		10/05/23 20:56			
Alkalinity,Bicarbonate (CaCO3)	211	mg/L	10.0	10.0	1		10/05/23 20:56			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 20:56			
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis								
Total Dissolved Solids	344	mg/L	10.0	10.0	1		10/11/23 15:32			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.9	Std. Units	0.10	0.10	1		10/17/23 17:05		H3	

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-21S		Lab ID: 50355432004		Collected: 10/04/23 13:15	Received: 10/04/23 18:21	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 09:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 16:04	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	0.47	mg/L	0.10	0.011	1		10/05/23 21:45	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/05/23 21:45	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:49			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.4	mg/L	1.0	0.24	1		10/14/23 05:18	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.3	mg/L	1.0	0.24	1		10/16/23 21:11			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-211 **Lab ID: 50355432005** Collected: 10/04/23 11:20 Received: 10/04/23 18:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	22.4	mg/L	2.5	0.67	10		10/13/23 20:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 19:50	16984-48-8	
Sulfate	37.5	mg/L	0.25	0.19	1		10/13/23 19:50	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:33	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:33	7440-42-8	
Calcium	93000	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:33	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:33	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:33	7439-93-2	
Magnesium	26600	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:33	7439-95-4	
Manganese	109	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:33	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:33	7439-98-7	
Potassium	1590	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:33	7440-09-7	
Silica	12400	ug/L	450		1	10/09/23 08:41	10/18/23 13:33	7631-86-9	N2
Sodium	10100	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:33	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	111	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:52	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:52	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 09:49	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 09:49	7440-38-2	
Barium	74.2	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 09:49	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 09:49	7440-48-4	
Selenium	6.7	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 09:49	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	589	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Bicarbonate (CaCO3)	589	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 20:56		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	361	mg/L	10.0	10.0	1		10/11/23 15:32		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		10/17/23 17:05		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-211 Lab ID: 50355432005 Collected: 10/04/23 11:20 Received: 10/04/23 18:21 Matrix: Water									
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 10:14	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:55	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	7.0	mg/L	0.50	0.055	5		10/05/23 22:09	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.50	0.020	5		10/05/23 22:09	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:49		
5310C TOC									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 05:43	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.9	mg/L	1.0	0.24	1		10/16/23 21:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-22S **Lab ID: 50355432006** Collected: 10/04/23 15:55 Received: 10/04/23 18:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	33.6	mg/L	2.5	0.67	10		10/13/23 20:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 20:40	16984-48-8	
Sulfate	39.4	mg/L	0.25	0.19	1		10/13/23 20:40	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:44	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:44	7440-42-8	
Calcium	102000	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:44	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:44	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:44	7439-93-2	
Magnesium	26300	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:44	7439-95-4	
Manganese	1360	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:44	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:44	7439-98-7	
Potassium	1360	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:44	7440-09-7	
Silica	11800	ug/L	450		1	10/09/23 08:41	10/18/23 13:44	7631-86-9	N2
Sodium	30400	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:44	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	817	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:53	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:53	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 09:59	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 09:59	7440-38-2	
Barium	41.4	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 09:59	7440-39-3	
Cobalt	1.0	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 09:59	7440-48-4	
Selenium	2.0	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 09:59	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	332	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Bicarbonate (CaCO3)	332	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 20:56		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	437	mg/L	10.0	10.0	1		10/11/23 15:32		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		10/17/23 17:06		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-22S		Lab ID: 50355432006		Collected: 10/04/23 15:55	Received: 10/04/23 18:21	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 10:14	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 16:04	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	2.7	mg/L	0.10	0.011	1		10/05/23 22:00	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/05/23 22:00	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:50		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.2	mg/L	1.0	0.24	1		10/14/23 06:08	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.1	mg/L	1.0	0.24	1		10/16/23 21:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: Dup-8 **Lab ID: 50355432007** Collected: 10/04/23 08:00 Received: 10/04/23 18:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	133	mg/L	25.0	6.7	100		10/13/23 21:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/13/23 21:14	16984-48-8	
Sulfate	210	mg/L	2.5	1.9	10		10/13/23 21:31	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/09/23 08:41	10/18/23 13:46	7429-90-5	
Boron	5640	ug/L	100	11.4	1	10/09/23 08:41	10/18/23 13:46	7440-42-8	
Calcium	118000	ug/L	1000	56.7	1	10/09/23 08:41	10/18/23 13:46	7440-70-2	
Iron	112	ug/L	100	18.1	1	10/09/23 08:41	10/18/23 13:46	7439-89-6	
Lithium	34.6	ug/L	20.0	5.1	1	10/09/23 08:41	10/18/23 13:46	7439-93-2	
Magnesium	27500	ug/L	1000	32.8	1	10/09/23 08:41	10/18/23 13:46	7439-95-4	
Manganese	366	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:46	7439-96-5	
Molybdenum	21.8	ug/L	10.0	1.1	1	10/09/23 08:41	10/18/23 13:46	7439-98-7	
Potassium	4070	ug/L	1000	120	1	10/09/23 08:41	10/18/23 13:46	7440-09-7	
Silica	14100	ug/L	450		1	10/09/23 08:41	10/18/23 13:46	7631-86-9	N2
Sodium	102000	ug/L	1000	48.2	1	10/09/23 08:41	10/18/23 13:46	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	368	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:55	7439-96-5	
Molybdenum, Dissolved	22.2	ug/L	10.0	1.1	1	10/08/23 18:33	10/17/23 15:55	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 10:03	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 10:03	7440-38-2	
Barium	45.9	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 10:03	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 10:03	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 10:03	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	244	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	10.0	1		10/05/23 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/05/23 20:56		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	749	mg/L	10.0	10.0	1		10/11/23 15:39		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/17/23 17:06		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: Dup-8		Lab ID: 50355432007		Collected: 10/04/23 08:00	Received: 10/04/23 18:21	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/06/23 10:14	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 15:54	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/05/23 21:02	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/05/23 21:02	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/12/23 13:30	10/17/23 14:51			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 07:12	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.6	mg/L	1.0	0.24	1		10/16/23 21:41			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	757163	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

METHOD BLANK: 3470086 Matrix: Water
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/13/23 10:57	
Fluoride	mg/L	ND	0.10	0.017	10/13/23 10:57	
Sulfate	mg/L	ND	0.25	0.19	10/13/23 10:57	

LABORATORY CONTROL SAMPLE: 3470087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	97	80-120	
Fluoride	mg/L	1	1.1	106	80-120	
Sulfate	mg/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470088 3470089

Parameter	Units	50355430002		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Chloride	mg/L	10.9	25	25	33.1	33.4	89	90	80-120	1	15				
Fluoride	mg/L	ND	1	1	1.0	1.0	99	100	80-120	1	15				
Sulfate	mg/L	22.6	5	5	27.4	28.0	96	108	80-120	2	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.

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	755979	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

METHOD BLANK: 3464727 Matrix: Water

Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/18/23 12:49	
Boron	ug/L	ND	100	11.4	10/18/23 12:49	
Calcium	ug/L	ND	1000	56.7	10/18/23 12:49	
Iron	ug/L	ND	100	18.1	10/18/23 12:49	
Lithium	ug/L	ND	20.0	5.1	10/18/23 12:49	
Magnesium	ug/L	ND	1000	32.8	10/18/23 12:49	
Manganese	ug/L	ND	10.0	1.1	10/18/23 12:49	
Molybdenum	ug/L	ND	10.0	1.1	10/18/23 12:49	
Potassium	ug/L	ND	1000	120	10/18/23 12:49	
Silica	ug/L	ND	450		10/18/23 12:49	N2
Sodium	ug/L	ND	1000	48.2	10/18/23 12:49	

LABORATORY CONTROL SAMPLE: 3464728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	80-120	
Boron	ug/L	1000	999	100	80-120	
Calcium	ug/L	10000	10400	104	80-120	
Iron	ug/L	10000	9730	97	80-120	
Lithium	ug/L	1000	1020	102	80-120	
Magnesium	ug/L	10000	10000	100	80-120	
Manganese	ug/L	1000	993	99	80-120	
Molybdenum	ug/L	1000	1040	104	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10800	101	80-120	N2
Sodium	ug/L	10000	10200	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464729 3464730

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50355430002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	ND	10000	10000	10200	10000	101	100	75-125	1	20	
Boron	ug/L	ND	1000	1000	1020	1010	98	98	75-125	1	20	
Calcium	ug/L	84100	10000	10000	92200	92700	80	86	75-125	1	20	
Iron	ug/L	ND	10000	10000	9610	9520	96	95	75-125	1	20	
Lithium	ug/L	ND	1000	1000	1000	1020	100	102	75-125	2	20	
Magnesium	ug/L	23300	10000	10000	32600	32600	93	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464729 3464730												
Parameter	Units	50355430002		MS		MSD		3464729		3464730		
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese	ug/L	40.2	1000	1000	1010	1010	97	97	75-125	0	20	
Molybdenum	ug/L	ND	1000	1000	1040	1030	104	103	75-125	1	20	
Potassium	ug/L	1340	10000	10000	11300	11400	99	101	75-125	1	20	
Silica	ug/L	15300	10700	10700	25800	25800	98	99	75-125	0	20	N2
Sodium	ug/L	9160	10000	10000	18500	18800	93	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch: 755986 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

METHOD BLANK: 3464756 Matrix: Water
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/17/23 15:12	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/17/23 15:12	

LABORATORY CONTROL SAMPLE: 3464757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	953	95	80-120	
Molybdenum, Dissolved	ug/L	1000	962	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464758 3464759

Parameter	Units	50355295001		3464759		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Manganese, Dissolved	ug/L	347	1000	1000	1340	99	92	75-125	5	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1040	103	99	75-125	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464760 3464761

Parameter	Units	50355430002		3464761		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Manganese, Dissolved	ug/L	39.5	1000	1000	1010	97	96	75-125	2	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355432

QC Batch: 756258 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

METHOD BLANK: 3466175 Matrix: Water
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	10/10/23 09:23	
Arsenic	ug/L	ND	1.0	0.075	10/10/23 09:23	
Barium	ug/L	ND	1.0	0.077	10/10/23 09:23	
Cobalt	ug/L	ND	1.0	0.046	10/10/23 09:23	
Selenium	ug/L	ND	1.0	0.20	10/10/23 09:23	

LABORATORY CONTROL SAMPLE: 3466176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.4	101	80-120	
Arsenic	ug/L	40	37.8	94	80-120	
Barium	ug/L	40	37.1	93	80-120	
Cobalt	ug/L	40	40.2	100	80-120	
Selenium	ug/L	40	38.6	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466177 3466178

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355754007 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	40.5	41.4	101	103	75-125	2	20
Arsenic	ug/L	5.0	40	40	42.1	42.9	93	95	75-125	2	20
Barium	ug/L	65.3	40	40	107	107	105	104	75-125	0	20
Cobalt	ug/L	ND	40	40	38.2	38.7	95	96	75-125	1	20
Selenium	ug/L	ND	40	40	37.2	39.1	93	98	75-125	5	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch: 756000 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

METHOD BLANK: 3464838 Matrix: Water
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/05/23 20:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/05/23 20:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/05/23 20:56	

LABORATORY CONTROL SAMPLE: 3464839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.5	97	90-110	

SAMPLE DUPLICATE: 3464840

Parameter	Units	50355178001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	253	256	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	253	256	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3464841

Parameter	Units	50355430002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	296	249	17	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	296	249	17	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	756707	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006

METHOD BLANK: 3467869 Matrix: Water

Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/11/23 15:26	

LABORATORY CONTROL SAMPLE: 3467870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	280	93	80-120	

SAMPLE DUPLICATE: 3467871

Parameter	Units	50355400004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	336	340	1	10	

SAMPLE DUPLICATE: 3467872

Parameter	Units	50355430002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	339	345	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch: 756708

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355432007

METHOD BLANK: 3467873

Matrix: Water

Associated Lab Samples: 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/11/23 15:38	

LABORATORY CONTROL SAMPLE: 3467874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3467875

Parameter	Units	50355432007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	749	749	0	10	

SAMPLE DUPLICATE: 3467876

Parameter	Units	50355756003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5420	5290	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch: 757828

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

SAMPLE DUPLICATE: 3472959

Parameter	Units	50355430002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	7.9	1	2	H3

SAMPLE DUPLICATE: 3472960

Parameter	Units	50355500002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	756064	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004			

METHOD BLANK: 3465139 Matrix: Water
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/06/23 09:12	

LABORATORY CONTROL SAMPLE: 3465140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465141 3465142

Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.55	0.55	108	109	90-110	1	20	

MATRIX SPIKE SAMPLE: 3465143

Parameter	Units	50355432004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.54	107	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	756065	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355432005, 50355432006, 50355432007		

METHOD BLANK: 3465144 Matrix: Water

Associated Lab Samples: 50355432005, 50355432006, 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/06/23 10:14	

LABORATORY CONTROL SAMPLE: 3465145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465146 3465147

Parameter	Units	50355430002		3465146		3465147		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Sulfide	mg/L	ND	0.5	0.5	0.54	0.53	107	107	90-110	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	757789	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007		

METHOD BLANK: 3472804 Matrix: Water
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/17/23 15:43	H3,N2

LABORATORY CONTROL SAMPLE: 3472805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472806 3472807

Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	ND	1	1	1.1	1.1	104	107	90-110	3	20	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472808 3472809

Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	ND	1	1	1.0	1.1	103	105	90-110	2	20	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	756012	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355432001, 50355432002, 50355432005, 50355432007

METHOD BLANK: 3464911 Matrix: Water

Associated Lab Samples: 50355432001, 50355432002, 50355432005, 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/05/23 20:58	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/05/23 20:58	

LABORATORY CONTROL SAMPLE: 3464912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	103	90-110	
Nitrogen, Nitrite	mg/L	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 3464913

Parameter	Units	50355428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.4	1	2.4	103	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.98	97	90-110	

MATRIX SPIKE SAMPLE: 3464914

Parameter	Units	50355430002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	8.6	10	19.2	106	90-110	
Nitrogen, Nitrite	mg/L	ND	10	9.8	97	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	756013	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355432003, 50355432004, 50355432006

METHOD BLANK: 3464916 Matrix: Water

Associated Lab Samples: 50355432003, 50355432004, 50355432006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/05/23 22:18	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/05/23 22:18	

LABORATORY CONTROL SAMPLE: 3464917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	
Nitrogen, Nitrite	mg/L	1	0.98	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3464918 3464919

Parameter	Units	50355430001		3464919		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, Nitrate	mg/L	8.2	10	10	18.7	18.4	106	102	90-110	2	20
Nitrogen, Nitrite	mg/L	ND	10	10	9.8	9.8	98	98	90-110	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355432

QC Batch: 756941 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

METHOD BLANK: 3469080 Matrix: Water
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/17/23 14:41	

LABORATORY CONTROL SAMPLE: 3469081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469082 3469083

Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.5	1.5				2		

MATRIX SPIKE SAMPLE: 3469084

Parameter	Units	50355432005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	ND		1.6			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch: 757253 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006

METHOD BLANK: 3470549 Matrix: Water
 Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/13/23 19:02	

LABORATORY CONTROL SAMPLE: 3470550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470551 3470552

Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.7	10	10	11.2	11.2	94	95	80-120	1	20	

MATRIX SPIKE SAMPLE: 3470553

Parameter	Units	50355430003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	10.1	95	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch: 757254

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355432007

METHOD BLANK: 3470560

Matrix: Water

Associated Lab Samples: 50355432007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/14/23 06:27	

LABORATORY CONTROL SAMPLE: 3470561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470562 3470563

Parameter	Units	50355619008		3470562		3470563		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Total Organic Carbon	mg/L	3.7	10	10	10	13.2	13.3	94	96	80-120	1	20

MATRIX SPIKE SAMPLE: 3470564

Parameter	Units	5035557001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	3.0	10	12.4	94	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	757541	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007		

METHOD BLANK:	3471990	Matrix:	Water
Associated Lab Samples:	50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/16/23 18:56	

LABORATORY CONTROL SAMPLE: 3471991						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471992												3471993	
Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Dissolved Organic Carbon	mg/L	1.4	10	10	10.7	10.7	93	93	80-120	0	20		

MATRIX SPIKE SAMPLE: 3471994											
Parameter	Units	50355430003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Dissolved Organic Carbon	mg/L	1.1	10	10.7	96	80-120					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-19S Lab ID: 50355432001 Collected: 10/04/23 10:50 Received: 10/04/23 18:21 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.321 ± 0.629 (1.13) C:NA T:93%	pCi/L	10/20/23 12:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.952 ± 0.563 (1.06) C:76% T:79%	pCi/L	10/19/23 15:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.27 ± 1.19 (2.19)	pCi/L	10/24/23 08:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-191 Lab ID: 50355432002 Collected: 10/04/23 11:45 Received: 10/04/23 18:21 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.09 ± 0.955 (1.46) C:NA T:89%	pCi/L	10/20/23 12:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.04 ± 0.534 (0.952) C:76% T:82%	pCi/L	10/19/23 15:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.13 ± 1.49 (2.41)	pCi/L	10/24/23 08:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-19D Lab ID: 50355432003 Collected: 10/04/23 12:40 Received: 10/04/23 18:21 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.799 ± 0.803 (1.25) C:NA T:89%	pCi/L	10/20/23 12:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.892 ± 0.511 (0.952) C:74% T:85%	pCi/L	10/19/23 15:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.69 ± 1.31 (2.20)	pCi/L	10/24/23 08:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.839 (1.65) C:NA T:91%	pCi/L	10/20/23 12:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.348 ± 0.477 (1.02) C:74% T:82%	pCi/L	10/19/23 15:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.348 ± 1.32 (2.67)	pCi/L	10/24/23 08:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Sample: MW-211 **Lab ID: 50355432005** Collected: 10/04/23 11:20 Received: 10/04/23 18:21 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.473 ± 0.767 (1.33) C:NA T:90%	pCi/L	10/20/23 12:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.285 ± 0.395 (0.847) C:81% T:79%	pCi/L	10/19/23 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.758 ± 1.16 (2.18)	pCi/L	10/24/23 08:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-22S Lab ID: 50355432006 Collected: 10/04/23 15:55 Received: 10/04/23 18:21 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0878 ± 0.621 (1.24) C:NA T:86%	pCi/L	10/20/23 13:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.0596 ± 0.385 (0.882) C:75% T:80%	pCi/L	10/19/23 15:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.147 ± 1.01 (2.12)	pCi/L	10/24/23 08:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Dup-8 Lab ID: 50355432007 Collected: 10/04/23 08:00 Received: 10/04/23 18:21 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.178 ± 0.606 (1.17) C:NA T:88%	pCi/L	10/20/23 13:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.401 ± 0.355 (0.713) C:77% T:83%	pCi/L	10/19/23 15:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.579 ± 0.961 (1.88)	pCi/L	10/24/23 08:04	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	621091	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: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

METHOD BLANK: 3026834 Matrix: Water

Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.309 (0.692) C:NA T:95%	pCi/L	10/20/23 12:47	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

QC Batch:	621095	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: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

METHOD BLANK: 3026842 Matrix: Water

Associated Lab Samples: 50355432001, 50355432002, 50355432003, 50355432004, 50355432005, 50355432006, 50355432007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.258 ± 0.339 (0.721) C:77% T:87%	pCi/L	10/19/23 15:39	

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QUALIFIERS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355432001	MW-19S	EPA 9056	757163		
50355432002	MW-19I	EPA 9056	757163		
50355432003	MW-19D	EPA 9056	757163		
50355432004	MW-21S	EPA 9056	757163		
50355432005	MW-21I	EPA 9056	757163		
50355432006	MW-22S	EPA 9056	757163		
50355432007	Dup-8	EPA 9056	757163		
50355432001	MW-19S	EPA 3010	755979	EPA 6010	757980
50355432002	MW-19I	EPA 3010	755979	EPA 6010	757980
50355432003	MW-19D	EPA 3010	755979	EPA 6010	757980
50355432004	MW-21S	EPA 3010	755979	EPA 6010	757980
50355432005	MW-21I	EPA 3010	755979	EPA 6010	757980
50355432006	MW-22S	EPA 3010	755979	EPA 6010	757980
50355432007	Dup-8	EPA 3010	755979	EPA 6010	757980
50355432001	MW-19S	EPA 3010	755986	EPA 6010	757792
50355432002	MW-19I	EPA 3010	755986	EPA 6010	757792
50355432003	MW-19D	EPA 3010	755986	EPA 6010	757792
50355432004	MW-21S	EPA 3010	755986	EPA 6010	757792
50355432005	MW-21I	EPA 3010	755986	EPA 6010	757792
50355432006	MW-22S	EPA 3010	755986	EPA 6010	757792
50355432007	Dup-8	EPA 3010	755986	EPA 6010	757792
50355432001	MW-19S	EPA 200.2	756258	EPA 6020	756428
50355432002	MW-19I	EPA 200.2	756258	EPA 6020	756428
50355432003	MW-19D	EPA 200.2	756258	EPA 6020	756428
50355432004	MW-21S	EPA 200.2	756258	EPA 6020	756428
50355432005	MW-21I	EPA 200.2	756258	EPA 6020	756428
50355432006	MW-22S	EPA 200.2	756258	EPA 6020	756428
50355432007	Dup-8	EPA 200.2	756258	EPA 6020	756428
50355432001	MW-19S	EPA 903.1	621091		
50355432002	MW-19I	EPA 903.1	621091		
50355432003	MW-19D	EPA 903.1	621091		
50355432004	MW-21S	EPA 903.1	621091		
50355432005	MW-21I	EPA 903.1	621091		
50355432006	MW-22S	EPA 903.1	621091		
50355432007	Dup-8	EPA 903.1	621091		
50355432001	MW-19S	EPA 904.0	621095		
50355432002	MW-19I	EPA 904.0	621095		
50355432003	MW-19D	EPA 904.0	621095		
50355432004	MW-21S	EPA 904.0	621095		
50355432005	MW-21I	EPA 904.0	621095		
50355432006	MW-22S	EPA 904.0	621095		
50355432007	Dup-8	EPA 904.0	621095		
50355432001	MW-19S	Total Radium Calculation	624308		
50355432002	MW-19I	Total Radium Calculation	624308		
50355432003	MW-19D	Total Radium Calculation	624308		
50355432004	MW-21S	Total Radium Calculation	624308		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355432005	MW-21I	Total Radium Calculation	624308		
50355432006	MW-22S	Total Radium Calculation	624308		
50355432007	Dup-8	Total Radium Calculation	624308		
50355432001	MW-19S	SM 2320B	756000		
50355432002	MW-19I	SM 2320B	756000		
50355432003	MW-19D	SM 2320B	756000		
50355432004	MW-21S	SM 2320B	756000		
50355432005	MW-21I	SM 2320B	756000		
50355432006	MW-22S	SM 2320B	756000		
50355432007	Dup-8	SM 2320B	756000		
50355432001	MW-19S	SM 2540C	756707		
50355432002	MW-19I	SM 2540C	756707		
50355432003	MW-19D	SM 2540C	756707		
50355432004	MW-21S	SM 2540C	756707		
50355432005	MW-21I	SM 2540C	756707		
50355432006	MW-22S	SM 2540C	756707		
50355432007	Dup-8	SM 2540C	756708		
50355432001	MW-19S	SM 4500-H+B	757828		
50355432002	MW-19I	SM 4500-H+B	757828		
50355432003	MW-19D	SM 4500-H+B	757828		
50355432004	MW-21S	SM 4500-H+B	757828		
50355432005	MW-21I	SM 4500-H+B	757828		
50355432006	MW-22S	SM 4500-H+B	757828		
50355432007	Dup-8	SM 4500-H+B	757828		
50355432001	MW-19S	SM 4500-S2-D	756064		
50355432002	MW-19I	SM 4500-S2-D	756064		
50355432003	MW-19D	SM 4500-S2-D	756064		
50355432004	MW-21S	SM 4500-S2-D	756064		
50355432005	MW-21I	SM 4500-S2-D	756065		
50355432006	MW-22S	SM 4500-S2-D	756065		
50355432007	Dup-8	SM 4500-S2-D	756065		
50355432001	MW-19S	HACH 8146	757789		
50355432002	MW-19I	HACH 8146	757789		
50355432003	MW-19D	HACH 8146	757789		
50355432004	MW-21S	HACH 8146	757789		
50355432005	MW-21I	HACH 8146	757789		
50355432006	MW-22S	HACH 8146	757789		
50355432007	Dup-8	HACH 8146	757789		
50355432001	MW-19S	EPA 353.2	756012		
50355432002	MW-19I	EPA 353.2	756012		
50355432003	MW-19D	EPA 353.2	756013		
50355432004	MW-21S	EPA 353.2	756013		
50355432005	MW-21I	EPA 353.2	756012		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355432006	MW-22S	EPA 353.2	756013		
50355432007	Dup-8	EPA 353.2	756012		
50355432001	MW-19S	EPA 365.1	756941	EPA 365.1	757845
50355432002	MW-19I	EPA 365.1	756941	EPA 365.1	757845
50355432003	MW-19D	EPA 365.1	756941	EPA 365.1	757845
50355432004	MW-21S	EPA 365.1	756941	EPA 365.1	757845
50355432005	MW-21I	EPA 365.1	756941	EPA 365.1	757845
50355432006	MW-22S	EPA 365.1	756941	EPA 365.1	757845
50355432007	Dup-8	EPA 365.1	756941	EPA 365.1	757845
50355432001	MW-19S	SM 5310C	757253		
50355432002	MW-19I	SM 5310C	757253		
50355432003	MW-19D	SM 5310C	757253		
50355432004	MW-21S	SM 5310C	757253		
50355432005	MW-21I	SM 5310C	757253		
50355432006	MW-22S	SM 5310C	757253		
50355432007	Dup-8	SM 5310C	757254		
50355432001	MW-19S	SM 5310C	757541		
50355432002	MW-19I	SM 5310C	757541		
50355432003	MW-19D	SM 5310C	757541		
50355432004	MW-21S	SM 5310C	757541		
50355432005	MW-21I	SM 5310C	757541		
50355432006	MW-22S	SM 5310C	757541		
50355432007	Dup-8	SM 5310C	757541		

REPORT OF LABORATORY ANALYSIS

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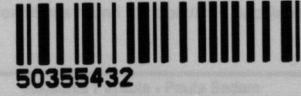


CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOCUMENT

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions.

WO#: 50355432



50355432

pdf.

Of

Section A

Section B

Section C

Required Client Information:

Required Project Information:

Invoice Information:

Company: Atlas Indianapolis
 Address: 7988 Centerpoint Drive
 Suite 100, Indianapolis, IN 46256
 Email: mark.breting@oneatlas.com
 Phone: 317-313-8306 Fax:
 Requested Due Date:

Report To: Mark Breting
 Copy To: **PIRU**
 Purchase Order #:
 Project Name: Eagle Valley October 2023
 Project #:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: will.statz@pacelabs.com
 Pace Profile #: **10498/46**

Regulatory Agency
State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)				
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Total Metals by 6010/6020	Diss metals by 6010	TDS by 2540C	TOC by 5310	DOC by 5310	Alkalinity / pH / Ferrous Fe	NO2/NO3 by 353.2	Sulfide by 4500	Total Phos by 365.1	C. F. SO4 by 9056		Rad 226/228 + SUM to Pitt			
				DATE	TIME	DATE	TIME																										
1	MW-19S	WT	G			10/4	1050	11	3	3	4	1																					
2	MW-19T						1145																										
3	MW-19D						1240																										
4	MW-21S						1315																										
5	MW-21I						1120																										
6	MW-22S						1555																										
7	Dup-8					10/4	-																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	Keegan Lowhead / Atlas	10.4.23		T. Harold	10/4/23	18:21	4.3	Y	Y	Y
6020 - Co, As, Se, Sb, Ba (5)										
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, silica (11)										
6010 Dis - Mn, Mo (2)										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Impact (Y/N)
PRINT Name of SAMPLER:	Keegan Lowhead				
SIGNATURE of SAMPLER:	Keegan Lowhead				
DATE Signed:		10.4.23			



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/4/23 18:21 TH

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H **(H)**
4. Cooler Temperature(s): 4.3/4.3 1.1/1.1 20/20 1.0/1.0
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.		<input checked="" type="checkbox"/>	
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO2/NO3</u>	<input checked="" type="checkbox"/>		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u>			
Time 5035A TC placed in Freezer or Short Holds To Lab			Time:	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?			<input checked="" type="checkbox"/>
			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS: 1.4/1.4.



January 26, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355754

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355754

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355754001	MW-20I	Water	10/06/23 11:00	10/06/23 17:10
50355754002	MW-20D	Water	10/06/23 09:40	10/06/23 17:10
50355754003	Dup-7	Water	10/06/23 08:00	10/06/23 17:10
50355754004	MW-22I	Water	10/06/23 15:10	10/06/23 17:10
50355754005	MW-22D	Water	10/06/23 12:00	10/06/23 17:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355754001	MW-20I	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	OAS	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50355754002	MW-20D	EPA 9056	KBB
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	CAW			5	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	AEL			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	OAS			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50355754003	Dup-7			EPA 9056	KBB
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355754004	MW-22I	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	OAS	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
SM 4500-H+B	LHZ	1	PASI-I		
SM 4500-S2-D	AEL	1	PASI-I		
HACH 8146	STS	1	PASI-I		
EPA 353.2	OAS	2	PASI-I		
EPA 365.1	YAM	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
50355754005	MW-22D	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	OAS	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355754001	MW-20I					
EPA 9056	Chloride	34.2	mg/L	2.5	10/17/23 20:41	
EPA 9056	Sulfate	24.0	mg/L	0.25	10/17/23 20:25	
EPA 6010	Aluminum	575	ug/L	200	10/18/23 16:43	
EPA 6010	Calcium	102000	ug/L	1000	10/18/23 16:43	
EPA 6010	Iron	1650	ug/L	100	10/18/23 16:43	
EPA 6010	Magnesium	27200	ug/L	1000	10/18/23 16:43	
EPA 6010	Manganese	131	ug/L	10.0	10/18/23 16:43	
EPA 6010	Potassium	5900	ug/L	1000	10/18/23 16:43	
EPA 6010	Silica	20100	ug/L	450	10/18/23 16:43	N2
EPA 6010	Sodium	17900	ug/L	1000	10/18/23 16:43	
EPA 6020	Arsenic	2.1	ug/L	1.0	10/10/23 10:06	
EPA 6020	Barium	59.1	ug/L	1.0	10/10/23 10:06	
EPA 6020	Cobalt	2.8	ug/L	1.0	10/10/23 10:06	
EPA 903.1	Radium-226	0.125 ± 0.458 (0.880)	pCi/L		10/26/23 12:51	
EPA 904.0	Radium-228	C:NA T:92% 0.927 ± 0.425 (0.694) C:82% T:84%	pCi/L		10/24/23 11:17	
Total Radium Calculation	Total Radium	1.05 ± 0.883 (1.57)	pCi/L		10/27/23 15:42	
SM 2320B	Alkalinity, Total as CaCO3	297	mg/L	10.0	10/09/23 20:40	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	297	mg/L	10.0	10/09/23 20:40	
SM 2540C	Total Dissolved Solids	396	mg/L	10.0	10/12/23 13:21	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/20/23 14:24	H3
EPA 353.2	Nitrogen, Nitrate	3.6	mg/L	0.10	10/07/23 09:45	
EPA 365.1	Phosphate as P04	0.20	mg/L	0.15	10/17/23 17:57	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	10/13/23 20:00	
50355754002	MW-20D					
EPA 9056	Chloride	26.7	mg/L	2.5	10/17/23 21:48	
EPA 9056	Sulfate	29.6	mg/L	0.25	10/17/23 21:31	
EPA 6010	Aluminum	418	ug/L	200	10/18/23 16:44	
EPA 6010	Calcium	89100	ug/L	1000	10/18/23 16:44	
EPA 6010	Iron	1260	ug/L	100	10/18/23 16:44	
EPA 6010	Magnesium	27100	ug/L	1000	10/18/23 16:44	
EPA 6010	Manganese	58.5	ug/L	10.0	10/18/23 16:44	
EPA 6010	Potassium	2890	ug/L	1000	10/18/23 16:44	
EPA 6010	Silica	19800	ug/L	450	10/18/23 16:44	N2
EPA 6010	Sodium	9390	ug/L	1000	10/18/23 16:44	
EPA 6020	Arsenic	1.5	ug/L	1.0	10/10/23 10:16	
EPA 6020	Barium	34.7	ug/L	1.0	10/10/23 10:16	
EPA 6020	Cobalt	1.3	ug/L	1.0	10/10/23 10:16	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355754002	MW-20D					
EPA 903.1	Radium-226	0.120 ± 0.371 (0.718) C:NA T:87%	pCi/L		10/26/23 12:51	
EPA 904.0	Radium-228	0.604 ± 0.457 (0.908) C:82% T:82%	pCi/L		10/24/23 11:17	
Total Radium Calculation	Total Radium	0.724 ± 0.828 (1.63)	pCi/L		10/27/23 15:42	
SM 2320B	Alkalinity, Total as CaCO3	258	mg/L	10.0	10/09/23 20:45	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	258	mg/L	10.0	10/09/23 20:45	
SM 2540C	Total Dissolved Solids	344	mg/L	10.0	10/12/23 13:21	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/20/23 14:25	H3
EPA 353.2	Nitrogen, Nitrate	2.1	mg/L	0.10	10/07/23 09:43	
EPA 365.1	Phosphate as P04	0.25	mg/L	0.15	10/17/23 17:59	
50355754003	Dup-7					
EPA 9056	Chloride	25.5	mg/L	2.5	10/17/23 22:22	
EPA 9056	Sulfate	29.6	mg/L	0.25	10/17/23 22:05	
EPA 6010	Aluminum	312	ug/L	200	10/18/23 16:46	
EPA 6010	Calcium	87600	ug/L	1000	10/18/23 16:46	
EPA 6010	Iron	948	ug/L	100	10/18/23 16:46	
EPA 6010	Magnesium	26600	ug/L	1000	10/18/23 16:46	
EPA 6010	Manganese	40.7	ug/L	10.0	10/18/23 16:46	
EPA 6010	Potassium	2730	ug/L	1000	10/18/23 16:46	
EPA 6010	Silica	19200	ug/L	450	10/18/23 16:46	N2
EPA 6010	Sodium	9240	ug/L	1000	10/18/23 16:46	
EPA 6020	Arsenic	1.2	ug/L	1.0	10/10/23 10:19	
EPA 6020	Barium	33.7	ug/L	1.0	10/10/23 10:19	
EPA 903.1	Radium-226	0.441 ± 0.511 (0.825) C:NA T:92%	pCi/L		10/26/23 13:29	
EPA 904.0	Radium-228	0.839 ± 0.423 (0.745) C:80% T:82%	pCi/L		10/24/23 12:21	
Total Radium Calculation	Total Radium	1.28 ± 0.934 (1.57)	pCi/L		10/27/23 17:12	
SM 2320B	Alkalinity, Total as CaCO3	257	mg/L	10.0	10/09/23 20:45	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	257	mg/L	10.0	10/09/23 20:45	
SM 2540C	Total Dissolved Solids	355	mg/L	10.0	10/12/23 13:21	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/20/23 14:25	H3
EPA 353.2	Nitrogen, Nitrate	2.1	mg/L	0.10	10/07/23 09:39	
EPA 365.1	Phosphate as P04	0.26	mg/L	0.15	10/17/23 17:59	
SM 5310C	Dissolved Organic Carbon	1.2	mg/L	1.0	10/13/23 20:42	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355754004	MW-22I					
EPA 9056	Chloride	11.7	mg/L	0.25	10/17/23 22:56	
EPA 9056	Sulfate	29.2	mg/L	0.25	10/17/23 22:56	
EPA 6010	Aluminum	373	ug/L	200	10/18/23 16:47	
EPA 6010	Calcium	94500	ug/L	1000	10/18/23 16:47	
EPA 6010	Iron	711	ug/L	100	10/18/23 16:47	
EPA 6010	Magnesium	26400	ug/L	1000	10/18/23 16:47	
EPA 6010	Manganese	344	ug/L	10.0	10/18/23 16:47	
EPA 6010	Potassium	1600	ug/L	1000	10/18/23 16:47	
EPA 6010	Silica	14800	ug/L	450	10/18/23 16:47	N2
EPA 6010	Sodium	6110	ug/L	1000	10/18/23 16:47	
EPA 6010	Manganese, Dissolved	184	ug/L	10.0	10/20/23 12:50	
EPA 6020	Barium	56.7	ug/L	1.0	10/10/23 10:23	
EPA 6020	Selenium	6.1	ug/L	1.0	10/10/23 10:23	
EPA 903.1	Radium-226	0.286 ± 0.436 (0.750)	pCi/L		10/26/23 13:29	
EPA 904.0	Radium-228	C:NA T:90% 0.848 ± 0.409 (0.710)	pCi/L		10/24/23 12:21	
		C:80% T:90%				
Total Radium Calculation	Total Radium	1.13 ± 0.845 (1.46)	pCi/L		10/27/23 17:12	
SM 2320B	Alkalinity, Total as CaCO3	275	mg/L	10.0	10/09/23 20:45	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	275	mg/L	10.0	10/09/23 20:45	
SM 2540C	Total Dissolved Solids	339	mg/L	10.0	10/12/23 13:21	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/20/23 14:26	H3
EPA 353.2	Nitrogen, Nitrate	4.6	mg/L	0.10	10/07/23 10:01	
SM 5310C	Dissolved Organic Carbon	1.5	mg/L	1.0	10/13/23 20:51	
50355754005	MW-22D					
EPA 9056	Chloride	18.8	mg/L	0.25	10/17/23 23:46	
EPA 9056	Sulfate	47.6	mg/L	0.25	10/17/23 23:46	
EPA 6010	Aluminum	281	ug/L	200	10/18/23 16:49	
EPA 6010	Calcium	81900	ug/L	1000	10/18/23 16:49	
EPA 6010	Iron	1510	ug/L	100	10/18/23 16:49	
EPA 6010	Magnesium	24400	ug/L	1000	10/18/23 16:49	
EPA 6010	Manganese	342	ug/L	10.0	10/18/23 16:49	
EPA 6010	Potassium	1870	ug/L	1000	10/18/23 16:49	
EPA 6010	Silica	14700	ug/L	450	10/18/23 16:49	N2
EPA 6010	Sodium	9700	ug/L	1000	10/18/23 16:49	
EPA 6010	Manganese, Dissolved	320	ug/L	10.0	10/20/23 12:51	
EPA 6020	Arsenic	3.5	ug/L	1.0	10/10/23 10:33	
EPA 6020	Barium	96.2	ug/L	1.0	10/10/23 10:33	
EPA 903.1	Radium-226	0.413 ± 0.430 (0.640)	pCi/L		10/26/23 13:29	
		C:NA T:87%				

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355754005	MW-22D					
EPA 904.0	Radium-228	0.503 ± 0.394 (0.783) C:79% T:79%	pCi/L		10/24/23 12:21	
Total Radium Calculation	Total Radium	0.916 ± 0.824 (1.42)	pCi/L		10/27/23 17:12	
SM 2320B	Alkalinity, Total as CaCO3	243	mg/L	10.0	10/09/23 20:45	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	243	mg/L	10.0	10/09/23 20:45	
SM 2540C	Total Dissolved Solids	320	mg/L	10.0	10/12/23 13:22	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/20/23 14:27	H3
SM 5310C	Dissolved Organic Carbon	5.8	mg/L	1.0	10/13/23 21:02	

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: MW-20I		Lab ID: 50355754001		Collected: 10/06/23 11:00	Received: 10/06/23 17:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	34.2	mg/L	2.5	0.67	10		10/17/23 20:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/17/23 20:25	16984-48-8	
Sulfate	24.0	mg/L	0.25	0.19	1		10/17/23 20:25	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	575	ug/L	200	79.3	1	10/11/23 08:23	10/18/23 16:43	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/11/23 08:23	10/18/23 16:43	7440-42-8	
Calcium	102000	ug/L	1000	56.7	1	10/11/23 08:23	10/18/23 16:43	7440-70-2	
Iron	1650	ug/L	100	18.1	1	10/11/23 08:23	10/18/23 16:43	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/11/23 08:23	10/18/23 16:43	7439-93-2	
Magnesium	27200	ug/L	1000	32.8	1	10/11/23 08:23	10/18/23 16:43	7439-95-4	
Manganese	131	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:43	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:43	7439-98-7	
Potassium	5900	ug/L	1000	120	1	10/11/23 08:23	10/18/23 16:43	7440-09-7	
Silica	20100	ug/L	450		1	10/11/23 08:23	10/18/23 16:43	7631-86-9	N2
Sodium	17900	ug/L	1000	48.2	1	10/11/23 08:23	10/18/23 16:43	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:45	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:45	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 10:06	7440-36-0	
Arsenic	2.1	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 10:06	7440-38-2	
Barium	59.1	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 10:06	7440-39-3	
Cobalt	2.8	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 10:06	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 10:06	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	297	mg/L	10.0	10.0	1		10/09/23 20:40		
Alkalinity,Bicarbonate (CaCO3)	297	mg/L	10.0	10.0	1		10/09/23 20:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/09/23 20:40		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	396	mg/L	10.0	10.0	1		10/12/23 13:21		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/20/23 14:24		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: MW-201		Lab ID: 50355754001		Collected: 10/06/23 11:00	Received: 10/06/23 17:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:16	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	3.6	mg/L	0.10	0.011	1		10/07/23 09:45	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/07/23 09:45	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis									
Phosphate as P04	0.20	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 17:57		
5310C TOC									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 14:56	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.3	mg/L	1.0	0.24	1		10/13/23 20:00		

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**ANALYTICAL RESULTS**

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: MW-20D **Lab ID: 50355754002** Collected: 10/06/23 09:40 Received: 10/06/23 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	26.7	mg/L	2.5	0.67	10		10/17/23 21:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/17/23 21:31	16984-48-8	
Sulfate	29.6	mg/L	0.25	0.19	1		10/17/23 21:31	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	418	ug/L	200	79.3	1	10/11/23 08:23	10/18/23 16:44	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/11/23 08:23	10/18/23 16:44	7440-42-8	
Calcium	89100	ug/L	1000	56.7	1	10/11/23 08:23	10/18/23 16:44	7440-70-2	
Iron	1260	ug/L	100	18.1	1	10/11/23 08:23	10/18/23 16:44	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/11/23 08:23	10/18/23 16:44	7439-93-2	
Magnesium	27100	ug/L	1000	32.8	1	10/11/23 08:23	10/18/23 16:44	7439-95-4	
Manganese	58.5	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:44	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:44	7439-98-7	
Potassium	2890	ug/L	1000	120	1	10/11/23 08:23	10/18/23 16:44	7440-09-7	
Silica	19800	ug/L	450		1	10/11/23 08:23	10/18/23 16:44	7631-86-9	N2
Sodium	9390	ug/L	1000	48.2	1	10/11/23 08:23	10/18/23 16:44	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:47	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:47	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 10:16	7440-36-0	
Arsenic	1.5	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 10:16	7440-38-2	
Barium	34.7	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 10:16	7440-39-3	
Cobalt	1.3	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 10:16	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 10:16	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	258	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Bicarbonate (CaCO3)	258	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/09/23 20:45		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	344	mg/L	10.0	10.0	1		10/12/23 13:21		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		10/20/23 14:25		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: MW-20D		Lab ID: 50355754002		Collected: 10/06/23 09:40	Received: 10/06/23 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:16	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	2.1	mg/L	0.10	0.011	1		10/07/23 09:43	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/07/23 09:43	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.25	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 17:59			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 15:21	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	1.0	0.24	1		10/13/23 20:32			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: Dup-7 **Lab ID: 50355754003** Collected: 10/06/23 08:00 Received: 10/06/23 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	25.5	mg/L	2.5	0.67	10		10/17/23 22:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/17/23 22:05	16984-48-8	
Sulfate	29.6	mg/L	0.25	0.19	1		10/17/23 22:05	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	312	ug/L	200	79.3	1	10/11/23 08:23	10/18/23 16:46	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/11/23 08:23	10/18/23 16:46	7440-42-8	
Calcium	87600	ug/L	1000	56.7	1	10/11/23 08:23	10/18/23 16:46	7440-70-2	
Iron	948	ug/L	100	18.1	1	10/11/23 08:23	10/18/23 16:46	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/11/23 08:23	10/18/23 16:46	7439-93-2	
Magnesium	26600	ug/L	1000	32.8	1	10/11/23 08:23	10/18/23 16:46	7439-95-4	
Manganese	40.7	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:46	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:46	7439-98-7	
Potassium	2730	ug/L	1000	120	1	10/11/23 08:23	10/18/23 16:46	7440-09-7	
Silica	19200	ug/L	450		1	10/11/23 08:23	10/18/23 16:46	7631-86-9	N2
Sodium	9240	ug/L	1000	48.2	1	10/11/23 08:23	10/18/23 16:46	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:48	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:48	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 10:19	7440-36-0	
Arsenic	1.2	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 10:19	7440-38-2	
Barium	33.7	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 10:19	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 10:19	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 10:19	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	257	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Bicarbonate (CaCO3)	257	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/09/23 20:45		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	355	mg/L	10.0	10.0	1		10/12/23 13:21		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		10/20/23 14:25		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: Dup-7		Lab ID: 50355754003		Collected: 10/06/23 08:00	Received: 10/06/23 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:15	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	2.1	mg/L	0.10	0.011	1		10/07/23 09:39	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/07/23 09:39	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.26	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 17:59			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 15:46	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.2	mg/L	1.0	0.24	1		10/13/23 20:42			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: MW-22I Lab ID: 50355754004 Collected: 10/06/23 15:10 Received: 10/06/23 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	11.7	mg/L	0.25	0.067	1		10/17/23 22:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/17/23 22:56	16984-48-8	
Sulfate	29.2	mg/L	0.25	0.19	1		10/17/23 22:56	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	373	ug/L	200	79.3	1	10/11/23 08:23	10/18/23 16:47	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/11/23 08:23	10/18/23 16:47	7440-42-8	
Calcium	94500	ug/L	1000	56.7	1	10/11/23 08:23	10/18/23 16:47	7440-70-2	
Iron	711	ug/L	100	18.1	1	10/11/23 08:23	10/18/23 16:47	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/11/23 08:23	10/18/23 16:47	7439-93-2	
Magnesium	26400	ug/L	1000	32.8	1	10/11/23 08:23	10/18/23 16:47	7439-95-4	
Manganese	344	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:47	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:47	7439-98-7	
Potassium	1600	ug/L	1000	120	1	10/11/23 08:23	10/18/23 16:47	7440-09-7	
Silica	14800	ug/L	450		1	10/11/23 08:23	10/18/23 16:47	7631-86-9	N2
Sodium	6110	ug/L	1000	48.2	1	10/11/23 08:23	10/18/23 16:47	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	184	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:50	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:50	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 10:23	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 10:23	7440-38-2	
Barium	56.7	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 10:23	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 10:23	7440-48-4	
Selenium	6.1	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 10:23	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	275	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Bicarbonate (CaCO3)	275	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/09/23 20:45		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	339	mg/L	10.0	10.0	1		10/12/23 13:21		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		10/20/23 14:26		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-22I Lab ID: 50355754004 Collected: 10/06/23 15:10 Received: 10/06/23 17:10 Matrix: Water									
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:27	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	4.6	mg/L	0.10	0.011	1		10/07/23 10:01	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/07/23 10:01	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:00		
5310C TOC									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 16:12	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.5	mg/L	1.0	0.24	1		10/13/23 20:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355754

Sample: MW-22D **Lab ID: 50355754005** Collected: 10/06/23 12:00 Received: 10/06/23 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	18.8	mg/L	0.25	0.067	1		10/17/23 23:46	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/17/23 23:46	16984-48-8	
Sulfate	47.6	mg/L	0.25	0.19	1		10/17/23 23:46	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	281	ug/L	200	79.3	1	10/11/23 08:23	10/18/23 16:49	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/11/23 08:23	10/18/23 16:49	7440-42-8	
Calcium	81900	ug/L	1000	56.7	1	10/11/23 08:23	10/18/23 16:49	7440-70-2	
Iron	1510	ug/L	100	18.1	1	10/11/23 08:23	10/18/23 16:49	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/11/23 08:23	10/18/23 16:49	7439-93-2	
Magnesium	24400	ug/L	1000	32.8	1	10/11/23 08:23	10/18/23 16:49	7439-95-4	
Manganese	342	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:49	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:49	7439-98-7	
Potassium	1870	ug/L	1000	120	1	10/11/23 08:23	10/18/23 16:49	7440-09-7	
Silica	14700	ug/L	450		1	10/11/23 08:23	10/18/23 16:49	7631-86-9	N2
Sodium	9700	ug/L	1000	48.2	1	10/11/23 08:23	10/18/23 16:49	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	320	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:51	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:51	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 10:33	7440-36-0	
Arsenic	3.5	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 10:33	7440-38-2	
Barium	96.2	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 10:33	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 10:33	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 10:33	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	243	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Bicarbonate (CaCO3)	243	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/09/23 20:45		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	320	mg/L	10.0	10.0	1		10/12/23 13:22		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/20/23 14:27		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: MW-22D		Lab ID: 50355754005		Collected: 10/06/23 12:00	Received: 10/06/23 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:27	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/07/23 09:58	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/07/23 09:58	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:00			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/14/23 16:37	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	5.8	mg/L	1.0	0.24	1		10/13/23 21:02			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355754

QC Batch: 757743 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3472604 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/17/23 11:57	
Fluoride	mg/L	ND	0.10	0.017	10/17/23 11:57	
Sulfate	mg/L	ND	0.25	0.19	10/17/23 11:57	

LABORATORY CONTROL SAMPLE: 3472605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	96	80-120	
Fluoride	mg/L	1	1.0	104	80-120	
Sulfate	mg/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472606 3472607

Parameter	Units	50355754007		3472606		3472607		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	117	25	25	144	143	106	103	80-120	1	15		
Fluoride	mg/L	0.27	1	1	1.3	1.3	107	107	80-120	0	15		
Sulfate	mg/L	61.5	50	50	110	109	97	95	80-120	1	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50355754

QC Batch: 756295 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3466331 Matrix: Water
Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/18/23 16:40	
Boron	ug/L	ND	100	11.4	10/18/23 16:40	
Calcium	ug/L	ND	1000	56.7	10/18/23 16:40	
Iron	ug/L	ND	100	18.1	10/18/23 16:40	
Lithium	ug/L	ND	20.0	5.1	10/18/23 16:40	
Magnesium	ug/L	ND	1000	32.8	10/18/23 16:40	
Manganese	ug/L	ND	10.0	1.1	10/18/23 16:40	
Molybdenum	ug/L	ND	10.0	1.1	10/18/23 16:40	
Potassium	ug/L	ND	1000	120	10/18/23 16:40	
Silica	ug/L	ND	450		10/18/23 16:40	N2
Sodium	ug/L	ND	1000	48.2	10/18/23 16:40	

LABORATORY CONTROL SAMPLE: 3466332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10300	103	80-120	
Boron	ug/L	1000	977	98	80-120	
Calcium	ug/L	10000	10500	105	80-120	
Iron	ug/L	10000	9780	98	80-120	
Lithium	ug/L	1000	1030	103	80-120	
Magnesium	ug/L	10000	9930	99	80-120	
Manganese	ug/L	1000	996	100	80-120	
Molybdenum	ug/L	1000	1060	106	80-120	
Potassium	ug/L	10000	10400	104	80-120	
Silica	ug/L	10700	10900	102	80-120	N2
Sodium	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466333 3466334

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50355754007 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	ND	10000	10000	10000	9930	100	99	75-125	1	20	
Boron	ug/L	105	1000	1000	1110	1100	100	99	75-125	1	20	
Calcium	ug/L	82500	10000	10000	91200	89300	87	69	75-125	2	20	P6
Iron	ug/L	1310	10000	10000	11000	10800	97	95	75-125	1	20	
Lithium	ug/L	ND	1000	1000	1020	1020	101	101	75-125	0	20	
Magnesium	ug/L	26300	10000	10000	35500	34900	92	87	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466333 3466334											
Parameter	Units	50355754007		3466333		3466334		% Rec	% Rec	% Rec	Max
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Manganese	ug/L	217	1000	1000	1190	1180	98	97	75-125	1	20
Molybdenum	ug/L	11.3	1000	1000	1080	1050	106	104	75-125	2	20
Potassium	ug/L	3490	10000	10000	13700	13700	102	103	75-125	0	20
Silica	ug/L	11400	10700	10700	22400	22000	102	99	75-125	1	20 N2
Sodium	ug/L	69200	10000	10000	78200	76800	89	76	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 756300 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3466345 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/20/23 12:44	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/20/23 12:44	

LABORATORY CONTROL SAMPLE: 3466346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1020	102	80-120	
Molybdenum, Dissolved	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466347 3466348

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	216	1000	1000	1210	1230	99	101	75-125	2	20	
Molybdenum, Dissolved	ug/L	10.6	1000	1000	1040	1060	103	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch:	756258	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355754001, 50355754002, 50355754003, 50355754004, 50355754005		

METHOD BLANK: 3466175 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	10/10/23 09:23	
Arsenic	ug/L	ND	1.0	0.075	10/10/23 09:23	
Barium	ug/L	ND	1.0	0.077	10/10/23 09:23	
Cobalt	ug/L	ND	1.0	0.046	10/10/23 09:23	
Selenium	ug/L	ND	1.0	0.20	10/10/23 09:23	

LABORATORY CONTROL SAMPLE: 3466176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.4	101	80-120	
Arsenic	ug/L	40	37.8	94	80-120	
Barium	ug/L	40	37.1	93	80-120	
Cobalt	ug/L	40	40.2	100	80-120	
Selenium	ug/L	40	38.6	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466177 3466178

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355754007	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	40.5	41.4	101	103	75-125	2	20
Arsenic	ug/L	5.0	40	40	42.1	42.9	93	95	75-125	2	20
Barium	ug/L	65.3	40	40	107	107	105	104	75-125	0	20
Cobalt	ug/L	ND	40	40	38.2	38.7	95	96	75-125	1	20
Selenium	ug/L	ND	40	40	37.2	39.1	93	98	75-125	5	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 756414

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754001

METHOD BLANK: 3466742

Matrix: Water

Associated Lab Samples: 50355754001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/09/23 20:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/09/23 20:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/09/23 20:40	

LABORATORY CONTROL SAMPLE: 3466743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.3	99	90-110	

SAMPLE DUPLICATE: 3466744

Parameter	Units	50355592005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	188	193	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	171	177	4	20	
Alkalinity,Carbonate (CaCO3)	mg/L	17.6	15.2	15	20	

SAMPLE DUPLICATE: 3466745

Parameter	Units	50355592009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	120	124	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	120	124	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 756415 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3466746 Matrix: Water
 Associated Lab Samples: 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/09/23 20:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/09/23 20:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/09/23 20:45	

LABORATORY CONTROL SAMPLE: 3466747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.0	96	90-110	

SAMPLE DUPLICATE: 3466748

Parameter	Units	50355755001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	208	213	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	208	213	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3466749

Parameter	Units	50355754007 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	238	244	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	238	244	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch:	756995	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3469323 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/12/23 13:20	

LABORATORY CONTROL SAMPLE: 3469324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	275	92	80-120	

SAMPLE DUPLICATE: 3469325

Parameter	Units	50355756004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5630	5930	5	10	

SAMPLE DUPLICATE: 3469326

Parameter	Units	50355754007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	504	494	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 758423

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

SAMPLE DUPLICATE: 3475829

Parameter	Units	50355871004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3475830

Parameter	Units	50355754007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 756734 Analysis Method: SM 4500-S2-D
 QC Batch Method: SM 4500-S2-D Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3467943 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/11/23 13:43	

LABORATORY CONTROL SAMPLE: 3467944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.48	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467945 3467946

Parameter	Units	50355754007		3467945		3467946		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Sulfide	mg/L	ND	0.5	0.5	0.52	0.51	103	103	90-110	1	20

MATRIX SPIKE SAMPLE: 3467947

Parameter	Units	50355871001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.52	105	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 757927 Analysis Method: HACH 8146
 QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3473366 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 10:15	H3,N2

LABORATORY CONTROL SAMPLE: 3473367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.98	98	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473368 3473369

Parameter	Units	50355754007		3473369		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Iron, Ferrous	mg/L	0.28	1	1	1.3	1.4	101	108	90-110	5	20	H3,N2

MATRIX SPIKE SAMPLE: 3473370

Parameter	Units	50355871006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.2	108	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 756221 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3465814 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/07/23 09:35	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/07/23 09:35	

LABORATORY CONTROL SAMPLE: 3465815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	
Nitrogen, Nitrite	mg/L	1	1.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465816 3465817

Parameter	Units	50355754007		3465817		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, Nitrate	mg/L	ND	1	1	1.0	1.0	103	104	90-110	1	20
Nitrogen, Nitrite	mg/L	ND	1	1	1.0	1.0	101	100	90-110	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355754

QC Batch: 757768 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3472717 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/17/23 17:54	

LABORATORY CONTROL SAMPLE: 3472718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472719 3472720

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.5	1.5				0		

MATRIX SPIKE SAMPLE: 3472721

Parameter	Units	50355871005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	ND		1.5			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50355754

QC Batch: 757254 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

METHOD BLANK: 3470560 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/14/23 06:27	

LABORATORY CONTROL SAMPLE: 3470561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470562 3470563

Parameter	Units	50355619008		3470562		3470563		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Total Organic Carbon	mg/L	3.7	10	10	10	13.2	13.3	94	96	80-120	1	20

MATRIX SPIKE SAMPLE: 3470564

Parameter	Units	5035557001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	3.0	10	12.4	94	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch:	757256	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355754001, 50355754002, 50355754003, 50355754004, 50355754005		

METHOD BLANK: 3470576 Matrix: Water
 Associated Lab Samples: 50355754001, 50355754002, 50355754003, 50355754004, 50355754005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/13/23 18:30	

LABORATORY CONTROL SAMPLE: 3470577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470578 3470579

Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.3	10	10	10.7	10.8	94	95	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470580 3470581

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.8	10	10	11.3	11.2	95	94	80-120	1	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-201 Lab ID: 50355754001 Collected: 10/06/23 11:00 Received: 10/06/23 17:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.125 ± 0.458 (0.880) C:NA T:92%	pCi/L	10/26/23 12:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.927 ± 0.425 (0.694) C:82% T:84%	pCi/L	10/24/23 11:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.05 ± 0.883 (1.57)	pCi/L	10/27/23 15:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-20D Lab ID: 50355754002 Collected: 10/06/23 09:40 Received: 10/06/23 17:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.120 ± 0.371 (0.718) C:NA T:87%	pCi/L	10/26/23 12:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.604 ± 0.457 (0.908) C:82% T:82%	pCi/L	10/24/23 11:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.724 ± 0.828 (1.63)	pCi/L	10/27/23 15:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: Dup-7 **Lab ID: 50355754003** Collected: 10/06/23 08:00 Received: 10/06/23 17:10 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.441 ± 0.511 (0.825) C:NA T:92%	pCi/L	10/26/23 13:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.839 ± 0.423 (0.745) C:80% T:82%	pCi/L	10/24/23 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.28 ± 0.934 (1.57)	pCi/L	10/27/23 17:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: MW-22I **Lab ID: 50355754004** Collected: 10/06/23 15:10 Received: 10/06/23 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.286 ± 0.436 (0.750) C:NA T:90%	pCi/L	10/26/23 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.848 ± 0.409 (0.710) C:80% T:90%	pCi/L	10/24/23 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.13 ± 0.845 (1.46)	pCi/L	10/27/23 17:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Sample: MW-22D **Lab ID: 50355754005** Collected: 10/06/23 12:00 Received: 10/06/23 17:10 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.413 ± 0.430 (0.640) C:NA T:87%	pCi/L	10/26/23 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.503 ± 0.394 (0.783) C:79% T:79%	pCi/L	10/24/23 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.916 ± 0.824 (1.42)	pCi/L	10/27/23 17:12	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 621740

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: 50355754001, 50355754002

METHOD BLANK: 3030244

Matrix: Water

Associated Lab Samples: 50355754001, 50355754002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.152 ± 0.264 (0.471) C:NA T:83%	pCi/L	10/26/23 12:51	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 621741

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: 50355754001, 50355754002

METHOD BLANK: 3030245

Matrix: Water

Associated Lab Samples: 50355754001, 50355754002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.320 ± 0.362 (0.757) C:83% T:78%	pCi/L	10/24/23 11:17	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch: 622662

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: 50355754003, 50355754004, 50355754005

METHOD BLANK: 3035233

Matrix: Water

Associated Lab Samples: 50355754003, 50355754004, 50355754005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.690 ± 0.415 (0.777) C:78% T:82%	pCi/L	10/24/23 12:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

QC Batch:	622661	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: 50355754003, 50355754004, 50355754005

METHOD BLANK: 3035230 Matrix: Water

Associated Lab Samples: 50355754003, 50355754004, 50355754005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.409 ± 0.351 (0.475) C:NA T:82%	pCi/L	10/26/23 13:29	

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QUALIFIERS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355754001	MW-20I	EPA 9056	757743		
50355754002	MW-20D	EPA 9056	757743		
50355754003	Dup-7	EPA 9056	757743		
50355754004	MW-22I	EPA 9056	757743		
50355754005	MW-22D	EPA 9056	757743		
50355754001	MW-20I	EPA 3010	756295	EPA 6010	758070
50355754002	MW-20D	EPA 3010	756295	EPA 6010	758070
50355754003	Dup-7	EPA 3010	756295	EPA 6010	758070
50355754004	MW-22I	EPA 3010	756295	EPA 6010	758070
50355754005	MW-22D	EPA 3010	756295	EPA 6010	758070
50355754001	MW-20I	EPA 3010	756300	EPA 6010	758371
50355754002	MW-20D	EPA 3010	756300	EPA 6010	758371
50355754003	Dup-7	EPA 3010	756300	EPA 6010	758371
50355754004	MW-22I	EPA 3010	756300	EPA 6010	758371
50355754005	MW-22D	EPA 3010	756300	EPA 6010	758371
50355754001	MW-20I	EPA 200.2	756258	EPA 6020	756428
50355754002	MW-20D	EPA 200.2	756258	EPA 6020	756428
50355754003	Dup-7	EPA 200.2	756258	EPA 6020	756428
50355754004	MW-22I	EPA 200.2	756258	EPA 6020	756428
50355754005	MW-22D	EPA 200.2	756258	EPA 6020	756428
50355754001	MW-20I	EPA 903.1	621740		
50355754002	MW-20D	EPA 903.1	621740		
50355754003	Dup-7	EPA 903.1	622661		
50355754004	MW-22I	EPA 903.1	622661		
50355754005	MW-22D	EPA 903.1	622661		
50355754001	MW-20I	EPA 904.0	621741		
50355754002	MW-20D	EPA 904.0	621741		
50355754003	Dup-7	EPA 904.0	622662		
50355754004	MW-22I	EPA 904.0	622662		
50355754005	MW-22D	EPA 904.0	622662		
50355754001	MW-20I	Total Radium Calculation	625439		
50355754002	MW-20D	Total Radium Calculation	625439		
50355754003	Dup-7	Total Radium Calculation	625474		
50355754004	MW-22I	Total Radium Calculation	625474		
50355754005	MW-22D	Total Radium Calculation	625474		
50355754001	MW-20I	SM 2320B	756414		
50355754002	MW-20D	SM 2320B	756415		
50355754003	Dup-7	SM 2320B	756415		
50355754004	MW-22I	SM 2320B	756415		
50355754005	MW-22D	SM 2320B	756415		
50355754001	MW-20I	SM 2540C	756995		
50355754002	MW-20D	SM 2540C	756995		
50355754003	Dup-7	SM 2540C	756995		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50355754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355754004	MW-22I	SM 2540C	756995		
50355754005	MW-22D	SM 2540C	756995		
50355754001	MW-20I	SM 4500-H+B	758423		
50355754002	MW-20D	SM 4500-H+B	758423		
50355754003	Dup-7	SM 4500-H+B	758423		
50355754004	MW-22I	SM 4500-H+B	758423		
50355754005	MW-22D	SM 4500-H+B	758423		
50355754001	MW-20I	SM 4500-S2-D	756734		
50355754002	MW-20D	SM 4500-S2-D	756734		
50355754003	Dup-7	SM 4500-S2-D	756734		
50355754004	MW-22I	SM 4500-S2-D	756734		
50355754005	MW-22D	SM 4500-S2-D	756734		
50355754001	MW-20I	HACH 8146	757927		
50355754002	MW-20D	HACH 8146	757927		
50355754003	Dup-7	HACH 8146	757927		
50355754004	MW-22I	HACH 8146	757927		
50355754005	MW-22D	HACH 8146	757927		
50355754001	MW-20I	EPA 353.2	756221		
50355754002	MW-20D	EPA 353.2	756221		
50355754003	Dup-7	EPA 353.2	756221		
50355754004	MW-22I	EPA 353.2	756221		
50355754005	MW-22D	EPA 353.2	756221		
50355754001	MW-20I	EPA 365.1	757768	EPA 365.1	757972
50355754002	MW-20D	EPA 365.1	757768	EPA 365.1	757972
50355754003	Dup-7	EPA 365.1	757768	EPA 365.1	757972
50355754004	MW-22I	EPA 365.1	757768	EPA 365.1	757972
50355754005	MW-22D	EPA 365.1	757768	EPA 365.1	757972
50355754001	MW-20I	SM 5310C	757254		
50355754002	MW-20D	SM 5310C	757254		
50355754003	Dup-7	SM 5310C	757254		
50355754004	MW-22I	SM 5310C	757254		
50355754005	MW-22D	SM 5310C	757254		
50355754001	MW-20I	SM 5310C	757256		
50355754002	MW-20D	SM 5310C	757256		
50355754003	Dup-7	SM 5310C	757256		
50355754004	MW-22I	SM 5310C	757256		
50355754005	MW-22D	SM 5310C	757256		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY

The Chain-of-Custody is a document that tracks the handling of a sample from the time it is collected to the time it is analyzed. It is used to ensure the integrity of the sample and the accuracy of the results.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the terms and conditions of the standard-terms.pdf.

WO# : 50355754



50355754

accurately.
standard-terms.pdf.

Section A

Required Client Information:
 Company: Atlas Indianapolis
 Address: 7988 Centerpoint Drive
 Suite 100, Indianapolis, IN 46256
 Email: mark.breting@oneatlas.com
 Phone: 317-313-8306 Fax: _____
 Requested Due Date: _____

Section B

Required Project Information:
 Report To: Mark Breting
 Copy To: PIRU
 Purchase Order #: _____
 Project Name: Eagle Valley October 2023
 Project #: 170LF-01547

Section C

Invoice Information:
 Company Name: Atlas Indianapolis
 Address: _____
 Pace Quote: _____
 Pace Project Manager: will.statz@pacelabs.com
 Pace Profile #: 10498/46

Regulatory Agency

State / Location
 IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Y/N	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			Total Metals by 6010/6020	Diss metals by 6010	TDS by 2540C	TOC by 5310	DOC by 5310	Alkalinity / pH / Ferrous Fe	NO2/NO3 by 353.2	Sulfide by 4500	Total Phos by 365.1	C. F. SO4 by 9056	Rad 226/228 + SUM to Pitt		
				DATE	TIME	DATE	TIME																									
1	MW-20I	WT	G			10.6.23	1100	11	3	3	4	1																				001
2	MW-20D						940																									002
3	DUP-7						-																									003
4	MW-22-I						1510																									004
5	MW-22D						1200																									005
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NO2/NO3 has a SH time of 48 hours	J Hill / Atlas	10.6.23		Keegan Lowhead / Atlas	10.6.23		SEE CUR
6020 - Co, As, Se, Sb, Ba (5)	Keegan Lowhead / Atlas	10.6.23	0510	Theresa Slutek / PACE	10.6.23	0510 (1710)	Y N Y
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, sila (11)							
6010 Dis - Mn, Mo (2)							

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Jon Hill / Keegan Lowhead
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed: 10.6.23

TEMP in C
 Received on Ice (Y/N)
 Custody Sealed (Y/N)
 Cooler (Y/N)
 Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: Atlas Indianapolis	Report To: Mark Breting	Attention: Accounts Payable - Paula Sedam
Address: 7988 Centerpoint Drive Suite 100, Indianapolis, IN 46256	Copy To: PI-R4	Company Name: Atlas Indianapolis
Email: mark.breting@oneatlas.com	Purchase Order #:	Address:
Phone: 317-313-8306 Fax:	Project Name: Eagle Valley October 2023	Pace Quote:
Requested Due Date:	Project #: 170 LE 1502	Pace Project Manager: will.statz@pacelabs.com
		Pace Profile #: 10498/46

Regulatory Agency
State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , . -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)								
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Total Metals by 6010/6020	Diss metals by 6010	TDS by 2540C	TOC by 5310	DOC by 5310	Alkalinity / pH / Ferrous Fe	NO2/NO3 by 363.2	Sulfide by 4500	Total Phos by 365.1	C, F, SO4 by 9056		Rad 226/228 + SUM to Pitt							
						DATE	TIME	DATE	TIME																														
1	MW-4I				UG			10.6.23	1110	11	3	3	4	1																									006
2	MW-4D							1120		33	9	9	12	3																									007-009
3	MW-9S							1335		11	3	3	4	1																								010	
4	Dup-1							-		11	3	3	4	1																								011	
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	Keeyan Lowkoat / Atlas	10.6.23	0500	Theresa Stiles / PACE	10.6.23	1710	SEE SCRB	Y	N	Y
6020 - Co, As, Se, Sb, Ba (5)										
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, sila (11)										
6010 Dis - Mn, Mo (2)										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Initialed (Y/N)
PRINT Name of SAMPLER: Keeyan Lowkoat	SIGNATURE of SAMPLER: <i>Keeyan Lowkoat</i>					
		DATE Signed: 10.6.23				



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 10.06.2023 1710

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H (5 coolers) 0.8/0.8
4. Cooler Temperature(s):

<u>2.4/2.4</u>	<u>0.8/0.8</u>	<u>0.8/0.8</u>	<u>1.7/1.7</u>
----------------	----------------	----------------	----------------

 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO2/NO3</u>	X		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	X		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace Wisconsin Sulfide?			X
Containers Intact?:	X		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		X	Trip Blank Present?		X	
Extra labels on Terracore Vials? (soils only)		X	Trip Blank Custody Seals?:			X

COMMENTS: 1 sample recvd with no label or writing of any kind. used LOT # to discern it to be a BP3U and placed it w/ the only sample group that was missing 1. (MLW-4E)

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	R	MeOH (only) SBS	DI	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS						PLASTIC						OTHER			Conformance									
													AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc	
																																	Red	Yellow	Green	Black	
1															1	1																	WT	✓	✓		✓
2																																					
3																																					
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKL	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic	Miscellaneous	
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic	Syringe Kit	LL Cr+6 sampling kit
BP2C	500mL NaOH plastic	ZPLOC	Ziploc Bag
BP2S	500mL H2SO4 plastic	R	Terracore Kit
BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
BP2Z	500mL NaOH, Zn Ac	GN	General Container
BP3B	250mL NaOH plastic	U	Summa Can (air sample)
BP3N	250mL HNO3 plastic	WT	Water
BP3F	250mL HNO3 plastic-field filtered	SL	Solid
BP3U	250mL unpreserved plastic	OL	Oil
BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe
BP3R	250mL Unpres. FF SO4/OH buffer		

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	MeOH (only)	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS							PLASTIC							OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc		
				SBS							Red	Yellow	Green	Black																				
				DI							HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9																				
				R																														
1														1	1			2	1	2	1	1	1					5	✓	✓		✓		
2														3	3			6	3	6	3	3	3					1	✓	✓		✓		
3														1	1			2	1	2	1	1	1					1	✓	✓		✓		
4														1	1			2	1	2	1	1	1					1	✓	✓		✓		
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

Container Codes

Glass			
DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic					
BP1B	1L NaOH plastic	BP4U	125mL unreserved plastic		
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic		
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic		
BP1U	1L unreserved plastic	Miscellaneous			
BP1Z	1L NaOH, Zn, Ac				
BP2N	500mL HNO3 plastic			Syringe Kit	LL Cr+6 sampling kit
BP2C	500mL NaOH plastic			ZPLC	Ziploc Bag
BP2S	500mL H2SO4 plastic	R	Terracore Kit		
BP2U	500mL unreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate		
BP2Z	500mL NaOH, Zn Ac	GN	General Container		
BP3B	250mL NaOH plastic	U	Summa Can (air sample)		
BP3N	250mL HNO3 plastic	WT	Water		
BP3F	250mL HNO3 plastic-field filtered	SL	Solid		
BP3U	250mL unreserved plastic	OL	Oil		
BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid		
BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe		
BP3R	250mL Unpres. FF SO4/OH buffer				



February 08, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50355871

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50355871

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355871001	MW-3S	Water	10/09/23 13:30	10/09/23 17:30
50355871002	MW-3I	Water	10/09/23 15:00	10/09/23 17:30
50355871003	MW-7S	Water	10/09/23 13:15	10/09/23 17:30
50355871004	MW-9I	Water	10/09/23 13:00	10/09/23 17:30
50355871005	MW-9D	Water	10/09/23 11:55	10/09/23 17:30
50355871006	MW-11I	Water	10/09/23 12:45	10/09/23 17:30
50355871007	MW-11D	Water	10/09/23 15:35	10/09/23 17:30
50355871008	DUP-3	Water	10/09/23 08:00	10/09/23 17:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355871001	MW-3S	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50355871002	MW-3I	EPA 9056	KBB
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	CAW			5	PASI-I
EPA 903.1	MAR1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	AEL			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50355871003	MW-7S			EPA 9056	KBB
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355871004	MW-9I	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
SM 4500-H+B	LHZ	1	PASI-I		
SM 4500-S2-D	AEL	1	PASI-I		
HACH 8146	STS	1	PASI-I		
EPA 353.2	DAW	2	PASI-I		
EPA 365.1	YAM	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
50355871005	MW-9D	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50355871006	MW-11I	SM 4500-S2-D	AEL	1	PASI-I		
		HACH 8146	STS	1	PASI-I		
		EPA 353.2	DAW	2	PASI-I		
		EPA 365.1	YAM	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		EPA 9056	KBB	3	PASI-I		
		EPA 6010	MTM	11	PASI-I		
		EPA 6010	MTM	2	PASI-I		
		EPA 6020	CAW	5	PASI-I		
		EPA 903.1	MAR1	1	PASI-PA		
		EPA 904.0	ZPC	1	PASI-PA		
		Total Radium Calculation	JAL	1	PASI-PA		
		SM 2320B	DAW	3	PASI-I		
		SM 2540C	IRH	1	PASI-I		
		SM 4500-H+B	LHZ	1	PASI-I		
		SM 4500-S2-D	AEL	1	PASI-I		
		HACH 8146	STS	1	PASI-I		
		50355871007	MW-11D	EPA 353.2	DAW	2	PASI-I
				EPA 365.1	YAM	1	PASI-I
SM 5310C	ATS			1	PASI-I		
SM 5310C	ATS			1	PASI-I		
EPA 9056	KBB			3	PASI-I		
EPA 6010	MTM			11	PASI-I		
EPA 6010	MTM			2	PASI-I		
EPA 6020	CAW			5	PASI-I		
EPA 903.1	MAR1			1	PASI-PA		
EPA 904.0	ZPC			1	PASI-PA		
Total Radium Calculation	JAL			1	PASI-PA		
SM 2320B	DAW			3	PASI-I		
SM 2540C	IRH			1	PASI-I		
SM 4500-H+B	LHZ			1	PASI-I		
SM 4500-S2-D	AEL			1	PASI-I		
HACH 8146	STS			1	PASI-I		
EPA 353.2	DAW			2	PASI-I		
EPA 365.1	YAM			1	PASI-I		
SM 5310C	ATS			1	PASI-I		

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355871008	DUP-3	SM 5310C	ATS	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355871001	MW-3S					
EPA 9056	Chloride	119	mg/L	2.5	10/18/23 06:47	
EPA 9056	Fluoride	0.25	mg/L	0.10	10/18/23 06:31	
EPA 9056	Sulfate	135	mg/L	2.5	10/18/23 06:47	
EPA 6010	Boron	392	ug/L	100	10/21/23 17:39	
EPA 6010	Calcium	101000	ug/L	1000	10/21/23 17:39	
EPA 6010	Magnesium	30000	ug/L	1000	10/21/23 17:39	
EPA 6010	Manganese	1040	ug/L	10.0	10/21/23 17:39	
EPA 6010	Molybdenum	43.3	ug/L	10.0	10/21/23 17:39	
EPA 6010	Potassium	5400	ug/L	1000	10/21/23 17:39	
EPA 6010	Silica	12100	ug/L	450	10/21/23 17:39	N2
EPA 6010	Sodium	79500	ug/L	1000	10/21/23 17:39	
EPA 6010	Manganese, Dissolved	650	ug/L	10.0	10/20/23 16:05	
EPA 6010	Molybdenum, Dissolved	41.5	ug/L	10.0	10/20/23 16:05	
EPA 6020	Barium	98.8	ug/L	1.0	10/11/23 23:31	
EPA 903.1	Radium-226	-0.198 ± 0.563 (1.19) C:NA T:85%	pCi/L		10/27/23 14:55	
EPA 904.0	Radium-228	0.807 ± 0.427 (0.746) C:75% T:78%	pCi/L		10/25/23 12:11	
Total Radium Calculation	Total Radium	0.807 ± 0.990 (1.94)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	258	mg/L	10.0	10/10/23 19:40	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	258	mg/L	10.0	10/10/23 19:40	
SM 2540C	Total Dissolved Solids	615	mg/L	10.0	10/12/23 13:23	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/20/23 14:36	H3
EPA 353.2	Nitrogen, Nitrate	0.50	mg/L	0.10	10/10/23 21:36	
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	10/14/23 01:55	
SM 5310C	Dissolved Organic Carbon	1.7	mg/L	1.0	10/13/23 22:53	
50355871002	MW-3I					
EPA 9056	Chloride	106	mg/L	2.5	10/18/23 07:36	
EPA 9056	Fluoride	0.40	mg/L	0.10	10/18/23 07:19	
EPA 9056	Sulfate	76.4	mg/L	2.5	10/18/23 07:36	
EPA 6010	Boron	122	ug/L	100	10/21/23 17:46	
EPA 6010	Calcium	60700	ug/L	1000	10/21/23 17:46	
EPA 6010	Magnesium	19600	ug/L	1000	10/21/23 17:46	
EPA 6010	Manganese	34.6	ug/L	10.0	10/21/23 17:46	
EPA 6010	Molybdenum	56.2	ug/L	10.0	10/21/23 17:46	
EPA 6010	Potassium	5170	ug/L	1000	10/21/23 17:46	
EPA 6010	Silica	11800	ug/L	450	10/21/23 17:46	N2
EPA 6010	Sodium	85400	ug/L	1000	10/21/23 17:46	
EPA 6010	Manganese, Dissolved	34.1	ug/L	10.0	10/20/23 16:17	
EPA 6010	Molybdenum, Dissolved	55.6	ug/L	10.0	10/20/23 16:17	
EPA 6020	Barium	55.1	ug/L	1.0	10/11/23 23:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355871002	MW-3I					
EPA 903.1	Radium-226	0.490 ± 0.715 (1.22) C:NA T:85%	pCi/L		10/27/23 14:55	
EPA 904.0	Radium-228	0.767 ± 0.401 (0.684) C:77% T:73%	pCi/L		10/25/23 12:11	
Total Radium Calculation	Total Radium	1.26 ± 1.12 (1.90)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	206	mg/L	10.0	10/10/23 19:40	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	206	mg/L	10.0	10/10/23 19:40	
SM 2540C	Total Dissolved Solids	462	mg/L	10.0	10/12/23 13:23	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/20/23 14:36	H3
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	10/14/23 02:05	
SM 5310C	Dissolved Organic Carbon	2.1	mg/L	1.0	10/13/23 23:03	
50355871003	MW-7S					
EPA 9056	Chloride	190	mg/L	2.5	10/18/23 08:24	
EPA 9056	Sulfate	563	mg/L	25.0	10/18/23 08:40	
EPA 6010	Aluminum	275	ug/L	200	10/21/23 17:48	
EPA 6010	Boron	2660	ug/L	100	10/21/23 17:48	
EPA 6010	Calcium	268000	ug/L	2000	10/21/23 18:02	
EPA 6010	Iron	594	ug/L	100	10/21/23 17:48	
EPA 6010	Lithium	54.4	ug/L	20.0	10/21/23 17:48	
EPA 6010	Magnesium	58500	ug/L	1000	10/21/23 17:48	
EPA 6010	Manganese	616	ug/L	10.0	10/21/23 17:48	
EPA 6010	Molybdenum	28.0	ug/L	10.0	10/21/23 17:48	
EPA 6010	Potassium	8880	ug/L	1000	10/21/23 17:48	
EPA 6010	Silica	15900	ug/L	450	10/21/23 17:48	N2
EPA 6010	Sodium	91100	ug/L	1000	10/21/23 17:48	
EPA 6010	Manganese, Dissolved	434	ug/L	10.0	10/20/23 16:18	
EPA 6010	Molybdenum, Dissolved	25.8	ug/L	10.0	10/20/23 16:18	
EPA 6020	Antimony	2.9	ug/L	1.0	10/12/23 00:07	
EPA 6020	Barium	47.7	ug/L	1.0	10/12/23 00:07	
EPA 6020	Cobalt	1.3	ug/L	1.0	10/12/23 00:07	
EPA 6020	Selenium	26.8	ug/L	1.0	10/12/23 00:07	
EPA 903.1	Radium-226	0.129 ± 0.311 (0.600) C:NA T:90%	pCi/L		10/27/23 14:55	
EPA 904.0	Radium-228	0.949 ± 0.416 (0.660) C:78% T:79%	pCi/L		10/25/23 12:11	
Total Radium Calculation	Total Radium	1.08 ± 0.727 (1.26)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	303	mg/L	10.0	10/10/23 19:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355871003	MW-7S					
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	303	mg/L	10.0	10/10/23 19:40	
SM 2540C	Total Dissolved Solids	1430	mg/L	20.0	10/12/23 13:24	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/20/23 14:37	H3
EPA 353.2	Nitrogen, Nitrate	2.1	mg/L	0.10	10/10/23 21:34	
EPA 365.1	Phosphate as P04	0.17	mg/L	0.15	10/17/23 18:07	
SM 5310C	Total Organic Carbon	2.1	mg/L	1.0	10/14/23 02:16	
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	10/13/23 23:28	
50355871004	MW-9I					
EPA 9056	Chloride	145	mg/L	2.5	10/18/23 09:45	
EPA 9056	Fluoride	0.22	mg/L	0.10	10/18/23 09:29	
EPA 9056	Sulfate	179	mg/L	2.5	10/18/23 09:45	
EPA 6010	Boron	673	ug/L	100	10/21/23 17:49	
EPA 6010	Calcium	101000	ug/L	1000	10/21/23 17:49	
EPA 6010	Lithium	38.2	ug/L	20.0	10/21/23 17:49	
EPA 6010	Magnesium	27600	ug/L	1000	10/21/23 17:49	
EPA 6010	Manganese	257	ug/L	10.0	10/21/23 17:49	
EPA 6010	Molybdenum	86.9	ug/L	10.0	10/21/23 17:49	
EPA 6010	Potassium	6590	ug/L	1000	10/21/23 17:49	
EPA 6010	Silica	8650	ug/L	450	10/21/23 17:49	N2
EPA 6010	Sodium	97500	ug/L	1000	10/21/23 17:49	
EPA 6010	Manganese, Dissolved	266	ug/L	10.0	10/20/23 16:20	
EPA 6010	Molybdenum, Dissolved	84.0	ug/L	10.0	10/20/23 16:20	
EPA 6020	Barium	41.8	ug/L	1.0	10/11/23 23:37	
EPA 903.1	Radium-226	0.123 ± 0.593 (1.12) C:NA T:87%	pCi/L		10/27/23 14:55	
EPA 904.0	Radium-228	0.419 ± 0.344 (0.682) C:79% T:81%	pCi/L		10/25/23 12:11	
Total Radium Calculation	Total Radium	0.542 ± 0.937 (1.80)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	219	mg/L	10.0	10/10/23 19:40	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	219	mg/L	10.0	10/10/23 19:40	
SM 2540C	Total Dissolved Solids	684	mg/L	10.0	10/12/23 13:24	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/20/23 14:38	H3
EPA 353.2	Nitrogen, Nitrate	0.21	mg/L	0.10	10/10/23 21:25	
SM 5310C	Total Organic Carbon	2.3	mg/L	1.0	10/14/23 02:27	
SM 5310C	Dissolved Organic Carbon	2.3	mg/L	1.0	10/13/23 23:39	
50355871005	MW-9D					
EPA 9056	Chloride	92.8	mg/L	2.5	10/18/23 10:34	
EPA 9056	Sulfate	86.5	mg/L	2.5	10/18/23 10:34	
EPA 6010	Calcium	118000	ug/L	1000	10/21/23 17:56	
EPA 6010	Iron	112	ug/L	100	10/21/23 17:56	
EPA 6010	Magnesium	30200	ug/L	1000	10/21/23 17:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355871005	MW-9D					
EPA 6010	Manganese	242	ug/L	10.0	10/21/23 17:56	
EPA 6010	Potassium	2630	ug/L	1000	10/21/23 17:56	
EPA 6010	Silica	13300	ug/L	450	10/21/23 17:56	N2
EPA 6010	Sodium	57500	ug/L	1000	10/21/23 17:56	
EPA 6010	Manganese, Dissolved	252	ug/L	10.0	10/20/23 16:21	
EPA 6020	Barium	120	ug/L	1.0	10/11/23 23:47	
EPA 903.1	Radium-226	0.549 ± 0.577 (0.916)	pCi/L		10/27/23 14:55	
EPA 904.0	Radium-228	C:NA T:86% 0.419 ± 0.451 (0.946)	pCi/L		10/25/23 12:11	
		C:79% T:78%				
Total Radium Calculation	Total Radium	0.968 ± 1.03 (1.86)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	324	mg/L	10.0	10/10/23 19:40	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	324	mg/L	10.0	10/10/23 19:40	
SM 2540C	Total Dissolved Solids	583	mg/L	10.0	10/12/23 13:24	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	10/24/23 11:46	H3
EPA 353.2	Nitrogen, Nitrate	0.36	mg/L	0.10	10/10/23 21:19	
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	10/14/23 02:38	
SM 5310C	Dissolved Organic Carbon	2.3	mg/L	1.0	10/13/23 23:50	
50355871006	MW-111					
EPA 9056	Chloride	114	mg/L	2.5	10/18/23 11:26	
EPA 9056	Fluoride	0.38	mg/L	0.10	10/18/23 11:10	
EPA 9056	Sulfate	122	mg/L	2.5	10/18/23 11:26	
EPA 6010	Boron	812	ug/L	100	10/21/23 17:58	
EPA 6010	Calcium	82800	ug/L	1000	10/21/23 17:58	
EPA 6010	Iron	349	ug/L	100	10/21/23 17:58	
EPA 6010	Lithium	107	ug/L	20.0	10/21/23 17:58	
EPA 6010	Magnesium	26900	ug/L	1000	10/21/23 17:58	
EPA 6010	Manganese	284	ug/L	10.0	10/21/23 17:58	
EPA 6010	Molybdenum	122	ug/L	10.0	10/21/23 17:58	
EPA 6010	Potassium	8560	ug/L	1000	10/21/23 17:58	
EPA 6010	Silica	10400	ug/L	450	10/21/23 17:58	N2
EPA 6010	Sodium	77000	ug/L	1000	10/21/23 17:58	
EPA 6010	Manganese, Dissolved	291	ug/L	10.0	10/20/23 16:23	
EPA 6010	Molybdenum, Dissolved	121	ug/L	10.0	10/20/23 16:23	
EPA 6020	Arsenic	1.4	ug/L	1.0	10/11/23 23:51	
EPA 6020	Barium	58.8	ug/L	1.0	10/11/23 23:51	
EPA 903.1	Radium-226	1.39 ± 0.805 (1.05) C:NA T:88%	pCi/L		10/27/23 14:55	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355871006	MW-11I					
EPA 904.0	Radium-228	1.05 ± 0.482 (0.821) C:80% T:82%	pCi/L		10/25/23 12:11	
Total Radium Calculation	Total Radium	2.44 ± 1.29 (1.87)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	222	mg/L	10.0	10/10/23 19:40	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	222	mg/L	10.0	10/10/23 19:40	
SM 2540C	Total Dissolved Solids	570	mg/L	10.0	10/12/23 13:24	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/24/23 11:48	H3
EPA 365.1	Phosphate as P04	0.18	mg/L	0.15	10/17/23 18:10	
SM 5310C	Total Organic Carbon	1.3	mg/L	1.0	10/14/23 02:54	
SM 5310C	Dissolved Organic Carbon	2.2	mg/L	1.0	10/14/23 00:00	
50355871007	MW-11D					
EPA 9056	Chloride	90.8	mg/L	2.5	10/18/23 12:31	
EPA 9056	Fluoride	0.28	mg/L	0.10	10/18/23 12:15	
EPA 9056	Sulfate	75.5	mg/L	2.5	10/18/23 12:31	
EPA 6010	Aluminum	666	ug/L	200	10/21/23 17:59	
EPA 6010	Boron	917	ug/L	100	10/21/23 17:59	
EPA 6010	Calcium	74500	ug/L	1000	10/21/23 17:59	
EPA 6010	Iron	2050	ug/L	100	10/21/23 17:59	
EPA 6010	Lithium	83.2	ug/L	20.0	10/21/23 17:59	
EPA 6010	Magnesium	21200	ug/L	1000	10/21/23 17:59	
EPA 6010	Manganese	285	ug/L	10.0	10/21/23 17:59	
EPA 6010	Molybdenum	133	ug/L	10.0	10/21/23 17:59	
EPA 6010	Potassium	7150	ug/L	1000	10/21/23 17:59	
EPA 6010	Silica	12900	ug/L	450	10/21/23 17:59	N2
EPA 6010	Sodium	71100	ug/L	1000	10/21/23 17:59	
EPA 6010	Manganese, Dissolved	260	ug/L	10.0	10/20/23 16:24	
EPA 6010	Molybdenum, Dissolved	130	ug/L	10.0	10/20/23 16:24	
EPA 6020	Arsenic	4.9	ug/L	1.0	10/11/23 23:54	
EPA 6020	Barium	62.1	ug/L	1.0	10/11/23 23:54	
EPA 903.1	Radium-226	0.358 ± 0.524 (0.895) C:NA T:87%	pCi/L		10/27/23 14:55	
EPA 904.0	Radium-228	0.498 ± 0.438 (0.894) C:79% T:81%	pCi/L		10/25/23 12:11	
Total Radium Calculation	Total Radium	0.856 ± 0.962 (1.79)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	221	mg/L	10.0	10/10/23 19:40	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	221	mg/L	10.0	10/10/23 19:40	
SM 2540C	Total Dissolved Solids	468	mg/L	10.0	10/12/23 13:24	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/24/23 11:49	H3
SM 4500-S2-D	Sulfide	0.18	mg/L	0.10	10/11/23 13:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355871007	MW-11D					
HACH 8146	Iron, Ferrous	0.48	mg/L	0.20	10/18/23 10:49	H3,N2
EPA 365.1	Phosphate as P04	0.42	mg/L	0.15	10/17/23 18:10	
SM 5310C	Total Organic Carbon	2.1	mg/L	1.0	10/14/23 03:05	
SM 5310C	Dissolved Organic Carbon	2.0	mg/L	1.0	10/16/23 22:02	
50355871008	DUP-3					
EPA 9056	Chloride	112	mg/L	2.5	10/18/23 13:20	
EPA 9056	Fluoride	0.38	mg/L	0.10	10/18/23 13:03	
EPA 9056	Sulfate	121	mg/L	2.5	10/18/23 13:20	
EPA 6010	Boron	810	ug/L	100	10/21/23 18:01	
EPA 6010	Calcium	82300	ug/L	1000	10/21/23 18:01	
EPA 6010	Iron	340	ug/L	100	10/21/23 18:01	
EPA 6010	Lithium	107	ug/L	20.0	10/21/23 18:01	
EPA 6010	Magnesium	26700	ug/L	1000	10/21/23 18:01	
EPA 6010	Manganese	281	ug/L	10.0	10/21/23 18:01	
EPA 6010	Molybdenum	121	ug/L	10.0	10/21/23 18:01	
EPA 6010	Potassium	8560	ug/L	1000	10/21/23 18:01	
EPA 6010	Silica	10300	ug/L	450	10/21/23 18:01	N2
EPA 6010	Sodium	77000	ug/L	1000	10/21/23 18:01	
EPA 6010	Manganese, Dissolved	295	ug/L	10.0	10/20/23 16:26	
EPA 6010	Molybdenum, Dissolved	122	ug/L	10.0	10/20/23 16:26	
EPA 6020	Arsenic	1.4	ug/L	1.0	10/11/23 23:57	
EPA 6020	Barium	58.5	ug/L	1.0	10/11/23 23:57	
EPA 903.1	Radium-226	0.595 ± 0.539 (0.794)	pCi/L		10/27/23 15:20	
EPA 904.0	Radium-228	C:NA T:81% 0.483 ± 0.465 (0.962)	pCi/L		10/25/23 12:12	
		C:76% T:82%				
Total Radium Calculation	Total Radium	1.08 ± 1.00 (1.76)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	224	mg/L	10.0	10/10/23 19:40	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	224	mg/L	10.0	10/10/23 19:40	
SM 2540C	Total Dissolved Solids	553	mg/L	10.0	10/12/23 13:32	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/24/23 11:49	H3
EPA 365.1	Phosphate as P04	0.36	mg/L	0.15	10/17/23 18:11	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	10/14/23 03:38	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/16/23 22:12	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Sample: MW-3S **Lab ID: 50355871001** Collected: 10/09/23 13:30 Received: 10/09/23 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Chloride	119	mg/L	2.5	0.67	10		10/18/23 06:47	16887-00-6	
Fluoride	0.25	mg/L	0.10	0.017	1		10/18/23 06:31	16984-48-8	
Sulfate	135	mg/L	2.5	1.9	10		10/18/23 06:47	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 20:47	10/21/23 17:39	7429-90-5	
Boron	392	ug/L	100	11.4	1	10/16/23 20:47	10/21/23 17:39	7440-42-8	
Calcium	101000	ug/L	1000	56.7	1	10/16/23 20:47	10/21/23 17:39	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/16/23 20:47	10/21/23 17:39	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/16/23 20:47	10/21/23 17:39	7439-93-2	
Magnesium	30000	ug/L	1000	32.8	1	10/16/23 20:47	10/21/23 17:39	7439-95-4	
Manganese	1040	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:39	7439-96-5	
Molybdenum	43.3	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:39	7439-98-7	
Potassium	5400	ug/L	1000	120	1	10/16/23 20:47	10/21/23 17:39	7440-09-7	
Silica	12100	ug/L	450		1	10/16/23 20:47	10/21/23 17:39	7631-86-9	N2
Sodium	79500	ug/L	1000	48.2	1	10/16/23 20:47	10/21/23 17:39	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Manganese, Dissolved	650	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:05	7439-96-5	
Molybdenum, Dissolved	41.5	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:05	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/11/23 07:29	10/11/23 23:31	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/11/23 07:29	10/11/23 23:31	7440-38-2	
Barium	98.8	ug/L	1.0	0.077	1	10/11/23 07:29	10/11/23 23:31	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/11/23 07:29	10/11/23 23:31	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/11/23 07:29	10/11/23 23:31	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	258	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Bicarbonate (CaCO3)	258	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/10/23 19:40		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	615	mg/L	10.0	10.0	1		10/12/23 13:23		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		10/20/23 14:36		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: MW-3S		Lab ID: 50355871001		Collected: 10/09/23 13:30	Received: 10/09/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:31	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	0.50	mg/L	0.10	0.011	1		10/10/23 21:36	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/10/23 21:36	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:06			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.8	mg/L	1.0	0.24	1		10/14/23 01:55	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.7	mg/L	1.0	0.24	1		10/13/23 22:53			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: MW-3I **Lab ID: 50355871002** Collected: 10/09/23 15:00 Received: 10/09/23 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	106	mg/L	2.5	0.67	10		10/18/23 07:36	16887-00-6	
Fluoride	0.40	mg/L	0.10	0.017	1		10/18/23 07:19	16984-48-8	
Sulfate	76.4	mg/L	2.5	1.9	10		10/18/23 07:36	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 20:47	10/21/23 17:46	7429-90-5	
Boron	122	ug/L	100	11.4	1	10/16/23 20:47	10/21/23 17:46	7440-42-8	
Calcium	60700	ug/L	1000	56.7	1	10/16/23 20:47	10/21/23 17:46	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/16/23 20:47	10/21/23 17:46	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/16/23 20:47	10/21/23 17:46	7439-93-2	
Magnesium	19600	ug/L	1000	32.8	1	10/16/23 20:47	10/21/23 17:46	7439-95-4	
Manganese	34.6	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:46	7439-96-5	
Molybdenum	56.2	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:46	7439-98-7	
Potassium	5170	ug/L	1000	120	1	10/16/23 20:47	10/21/23 17:46	7440-09-7	
Silica	11800	ug/L	450		1	10/16/23 20:47	10/21/23 17:46	7631-86-9	N2
Sodium	85400	ug/L	1000	48.2	1	10/16/23 20:47	10/21/23 17:46	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	34.1	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:17	7439-96-5	
Molybdenum, Dissolved	55.6	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:17	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/11/23 07:29	10/11/23 23:34	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/11/23 07:29	10/11/23 23:34	7440-38-2	
Barium	55.1	ug/L	1.0	0.077	1	10/11/23 07:29	10/11/23 23:34	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/11/23 07:29	10/11/23 23:34	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/11/23 07:29	10/11/23 23:34	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	206	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Bicarbonate (CaCO3)	206	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/10/23 19:40		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	462	mg/L	10.0	10.0	1		10/12/23 13:23		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/20/23 14:36		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: MW-3I		Lab ID: 50355871002		Collected: 10/09/23 15:00	Received: 10/09/23 17:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:48	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/10/23 21:40	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/10/23 21:40	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:06		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.6	mg/L	1.0	0.24	1		10/14/23 02:05	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.1	mg/L	1.0	0.24	1		10/13/23 23:03		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: MW-7S **Lab ID: 50355871003** Collected: 10/09/23 13:15 Received: 10/09/23 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	190	mg/L	2.5	0.67	10		10/18/23 08:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/18/23 08:08	16984-48-8	
Sulfate	563	mg/L	25.0	19.0	100		10/18/23 08:40	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	275	ug/L	200	79.3	1	10/16/23 20:47	10/21/23 17:48	7429-90-5	
Boron	2660	ug/L	100	11.4	1	10/16/23 20:47	10/21/23 17:48	7440-42-8	
Calcium	268000	ug/L	2000	113	2	10/16/23 20:47	10/21/23 18:02	7440-70-2	
Iron	594	ug/L	100	18.1	1	10/16/23 20:47	10/21/23 17:48	7439-89-6	
Lithium	54.4	ug/L	20.0	5.1	1	10/16/23 20:47	10/21/23 17:48	7439-93-2	
Magnesium	58500	ug/L	1000	32.8	1	10/16/23 20:47	10/21/23 17:48	7439-95-4	
Manganese	616	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:48	7439-96-5	
Molybdenum	28.0	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:48	7439-98-7	
Potassium	8880	ug/L	1000	120	1	10/16/23 20:47	10/21/23 17:48	7440-09-7	
Silica	15900	ug/L	450		1	10/16/23 20:47	10/21/23 17:48	7631-86-9	N2
Sodium	91100	ug/L	1000	48.2	1	10/16/23 20:47	10/21/23 17:48	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	434	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:18	7439-96-5	
Molybdenum, Dissolved	25.8	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:18	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	2.9	ug/L	1.0	0.49	1	10/11/23 07:29	10/12/23 00:07	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/11/23 07:29	10/12/23 00:07	7440-38-2	
Barium	47.7	ug/L	1.0	0.077	1	10/11/23 07:29	10/12/23 00:07	7440-39-3	
Cobalt	1.3	ug/L	1.0	0.046	1	10/11/23 07:29	10/12/23 00:07	7440-48-4	
Selenium	26.8	ug/L	1.0	0.20	1	10/11/23 07:29	10/12/23 00:07	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	303	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Bicarbonate (CaCO3)	303	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/10/23 19:40		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1430	mg/L	20.0	20.0	1		10/12/23 13:24		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		10/20/23 14:37		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: MW-7S		Lab ID: 50355871003		Collected: 10/09/23 13:15	Received: 10/09/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:30	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	2.1	mg/L	0.10	0.011	1		10/10/23 21:34	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/10/23 21:34	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.17	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:07			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.1	mg/L	1.0	0.24	1		10/14/23 02:16	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.0	mg/L	1.0	0.24	1		10/13/23 23:28			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Sample: MW-9I		Lab ID: 50355871004		Collected: 10/09/23 13:00		Received: 10/09/23 17:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	145	mg/L	2.5	0.67	10		10/18/23 09:45	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.017	1		10/18/23 09:29	16984-48-8	
Sulfate	179	mg/L	2.5	1.9	10		10/18/23 09:45	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 20:47	10/21/23 17:49	7429-90-5	
Boron	673	ug/L	100	11.4	1	10/16/23 20:47	10/21/23 17:49	7440-42-8	
Calcium	101000	ug/L	1000	56.7	1	10/16/23 20:47	10/21/23 17:49	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/16/23 20:47	10/21/23 17:49	7439-89-6	
Lithium	38.2	ug/L	20.0	5.1	1	10/16/23 20:47	10/21/23 17:49	7439-93-2	
Magnesium	27600	ug/L	1000	32.8	1	10/16/23 20:47	10/21/23 17:49	7439-95-4	
Manganese	257	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:49	7439-96-5	
Molybdenum	86.9	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:49	7439-98-7	
Potassium	6590	ug/L	1000	120	1	10/16/23 20:47	10/21/23 17:49	7440-09-7	
Silica	8650	ug/L	450		1	10/16/23 20:47	10/21/23 17:49	7631-86-9	N2
Sodium	97500	ug/L	1000	48.2	1	10/16/23 20:47	10/21/23 17:49	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	266	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:20	7439-96-5	
Molybdenum, Dissolved	84.0	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:20	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/11/23 07:29	10/11/23 23:37	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/11/23 07:29	10/11/23 23:37	7440-38-2	
Barium	41.8	ug/L	1.0	0.077	1	10/11/23 07:29	10/11/23 23:37	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/11/23 07:29	10/11/23 23:37	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/11/23 07:29	10/11/23 23:37	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	219	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Bicarbonate (CaCO3)	219	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/10/23 19:40		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	684	mg/L	10.0	10.0	1		10/12/23 13:24		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	0.10	1		10/20/23 14:38		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: MW-9I		Lab ID: 50355871004		Collected: 10/09/23 13:00	Received: 10/09/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:30	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	0.21	mg/L	0.10	0.011	1		10/10/23 21:25	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/10/23 21:25	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:07			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.3	mg/L	1.0	0.24	1		10/14/23 02:27	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.3	mg/L	1.0	0.24	1		10/13/23 23:39			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Sample: MW-9D Lab ID: 50355871005 Collected: 10/09/23 11:55 Received: 10/09/23 17:30 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Chloride	92.8	mg/L	2.5	0.67	10		10/18/23 10:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/18/23 10:18	16984-48-8	
Sulfate	86.5	mg/L	2.5	1.9	10		10/18/23 10:34	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 20:47	10/21/23 17:56	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/16/23 20:47	10/21/23 17:56	7440-42-8	
Calcium	118000	ug/L	1000	56.7	1	10/16/23 20:47	10/21/23 17:56	7440-70-2	
Iron	112	ug/L	100	18.1	1	10/16/23 20:47	10/21/23 17:56	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/16/23 20:47	10/21/23 17:56	7439-93-2	
Magnesium	30200	ug/L	1000	32.8	1	10/16/23 20:47	10/21/23 17:56	7439-95-4	
Manganese	242	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:56	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:56	7439-98-7	
Potassium	2630	ug/L	1000	120	1	10/16/23 20:47	10/21/23 17:56	7440-09-7	
Silica	13300	ug/L	450		1	10/16/23 20:47	10/21/23 17:56	7631-86-9	N2
Sodium	57500	ug/L	1000	48.2	1	10/16/23 20:47	10/21/23 17:56	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Manganese, Dissolved	252	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:21	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:21	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/11/23 07:29	10/11/23 23:47	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/11/23 07:29	10/11/23 23:47	7440-38-2	
Barium	120	ug/L	1.0	0.077	1	10/11/23 07:29	10/11/23 23:47	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/11/23 07:29	10/11/23 23:47	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/11/23 07:29	10/11/23 23:47	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	324	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Bicarbonate (CaCO3)	324	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/10/23 19:40		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	583	mg/L	10.0	10.0	1		10/12/23 13:24		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	0.10	1		10/24/23 11:46		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Sample: MW-9D		Lab ID: 50355871005		Collected: 10/09/23 11:55	Received: 10/09/23 17:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:28	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	0.36	mg/L	0.10	0.011	1		10/10/23 21:19	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/10/23 21:19	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:08		
5310C TOC									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Total Organic Carbon	1.8	mg/L	1.0	0.24	1		10/14/23 02:38	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	2.3	mg/L	1.0	0.24	1		10/13/23 23:50		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: MW-111 **Lab ID: 50355871006** Collected: 10/09/23 12:45 Received: 10/09/23 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	114	mg/L	2.5	0.67	10		10/18/23 11:26	16887-00-6	
Fluoride	0.38	mg/L	0.10	0.017	1		10/18/23 11:10	16984-48-8	
Sulfate	122	mg/L	2.5	1.9	10		10/18/23 11:26	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 20:47	10/21/23 17:58	7429-90-5	
Boron	812	ug/L	100	11.4	1	10/16/23 20:47	10/21/23 17:58	7440-42-8	
Calcium	82800	ug/L	1000	56.7	1	10/16/23 20:47	10/21/23 17:58	7440-70-2	
Iron	349	ug/L	100	18.1	1	10/16/23 20:47	10/21/23 17:58	7439-89-6	
Lithium	107	ug/L	20.0	5.1	1	10/16/23 20:47	10/21/23 17:58	7439-93-2	
Magnesium	26900	ug/L	1000	32.8	1	10/16/23 20:47	10/21/23 17:58	7439-95-4	
Manganese	284	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:58	7439-96-5	
Molybdenum	122	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:58	7439-98-7	
Potassium	8560	ug/L	1000	120	1	10/16/23 20:47	10/21/23 17:58	7440-09-7	
Silica	10400	ug/L	450		1	10/16/23 20:47	10/21/23 17:58	7631-86-9	N2
Sodium	77000	ug/L	1000	48.2	1	10/16/23 20:47	10/21/23 17:58	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	291	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:23	7439-96-5	
Molybdenum, Dissolved	121	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:23	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/11/23 07:29	10/11/23 23:51	7440-36-0	
Arsenic	1.4	ug/L	1.0	0.075	1	10/11/23 07:29	10/11/23 23:51	7440-38-2	
Barium	58.8	ug/L	1.0	0.077	1	10/11/23 07:29	10/11/23 23:51	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/11/23 07:29	10/11/23 23:51	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/11/23 07:29	10/11/23 23:51	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	222	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Bicarbonate (CaCO3)	222	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/10/23 19:40		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	570	mg/L	10.0	10.0	1		10/12/23 13:24		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/24/23 11:48		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: MW-111		Lab ID: 50355871006		Collected: 10/09/23 12:45	Received: 10/09/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:29	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/10/23 21:23	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/10/23 21:23	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.18	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:10			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.3	mg/L	1.0	0.24	1		10/14/23 02:54	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.2	mg/L	1.0	0.24	1		10/14/23 00:00			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Sample: MW-11D **Lab ID: 50355871007** Collected: 10/09/23 15:35 Received: 10/09/23 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Chloride	90.8	mg/L	2.5	0.67	10		10/18/23 12:31	16887-00-6	
Fluoride	0.28	mg/L	0.10	0.017	1		10/18/23 12:15	16984-48-8	
Sulfate	75.5	mg/L	2.5	1.9	10		10/18/23 12:31	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Aluminum	666	ug/L	200	79.3	1	10/16/23 20:47	10/21/23 17:59	7429-90-5	
Boron	917	ug/L	100	11.4	1	10/16/23 20:47	10/21/23 17:59	7440-42-8	
Calcium	74500	ug/L	1000	56.7	1	10/16/23 20:47	10/21/23 17:59	7440-70-2	
Iron	2050	ug/L	100	18.1	1	10/16/23 20:47	10/21/23 17:59	7439-89-6	
Lithium	83.2	ug/L	20.0	5.1	1	10/16/23 20:47	10/21/23 17:59	7439-93-2	
Magnesium	21200	ug/L	1000	32.8	1	10/16/23 20:47	10/21/23 17:59	7439-95-4	
Manganese	285	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:59	7439-96-5	
Molybdenum	133	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 17:59	7439-98-7	
Potassium	7150	ug/L	1000	120	1	10/16/23 20:47	10/21/23 17:59	7440-09-7	
Silica	12900	ug/L	450		1	10/16/23 20:47	10/21/23 17:59	7631-86-9	N2
Sodium	71100	ug/L	1000	48.2	1	10/16/23 20:47	10/21/23 17:59	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Manganese, Dissolved	260	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:24	7439-96-5	
Molybdenum, Dissolved	130	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:24	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/11/23 07:29	10/11/23 23:54	7440-36-0	
Arsenic	4.9	ug/L	1.0	0.075	1	10/11/23 07:29	10/11/23 23:54	7440-38-2	
Barium	62.1	ug/L	1.0	0.077	1	10/11/23 07:29	10/11/23 23:54	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/11/23 07:29	10/11/23 23:54	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/11/23 07:29	10/11/23 23:54	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	221	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Bicarbonate (CaCO3)	221	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/10/23 19:40		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	468	mg/L	10.0	10.0	1		10/12/23 13:24		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		10/24/23 11:49		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Sample: MW-11D		Lab ID: 50355871007		Collected: 10/09/23 15:35	Received: 10/09/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	0.18	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	0.48	mg/L	0.20	0.035	1		10/18/23 10:49	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/10/23 21:42	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/10/23 21:42	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.42	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:10			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.1	mg/L	1.0	0.24	1		10/14/23 03:05	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.0	mg/L	1.0	0.24	1		10/16/23 22:02			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

Sample: DUP-3 **Lab ID: 50355871008** Collected: 10/09/23 08:00 Received: 10/09/23 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	112	mg/L	2.5	0.67	10		10/18/23 13:20	16887-00-6	
Fluoride	0.38	mg/L	0.10	0.017	1		10/18/23 13:03	16984-48-8	
Sulfate	121	mg/L	2.5	1.9	10		10/18/23 13:20	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 20:47	10/21/23 18:01	7429-90-5	
Boron	810	ug/L	100	11.4	1	10/16/23 20:47	10/21/23 18:01	7440-42-8	
Calcium	82300	ug/L	1000	56.7	1	10/16/23 20:47	10/21/23 18:01	7440-70-2	
Iron	340	ug/L	100	18.1	1	10/16/23 20:47	10/21/23 18:01	7439-89-6	
Lithium	107	ug/L	20.0	5.1	1	10/16/23 20:47	10/21/23 18:01	7439-93-2	
Magnesium	26700	ug/L	1000	32.8	1	10/16/23 20:47	10/21/23 18:01	7439-95-4	
Manganese	281	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 18:01	7439-96-5	
Molybdenum	121	ug/L	10.0	1.1	1	10/16/23 20:47	10/21/23 18:01	7439-98-7	
Potassium	8560	ug/L	1000	120	1	10/16/23 20:47	10/21/23 18:01	7440-09-7	
Silica	10300	ug/L	450		1	10/16/23 20:47	10/21/23 18:01	7631-86-9	N2
Sodium	77000	ug/L	1000	48.2	1	10/16/23 20:47	10/21/23 18:01	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	295	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:26	7439-96-5	
Molybdenum, Dissolved	122	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:26	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/11/23 07:29	10/11/23 23:57	7440-36-0	
Arsenic	1.4	ug/L	1.0	0.075	1	10/11/23 07:29	10/11/23 23:57	7440-38-2	
Barium	58.5	ug/L	1.0	0.077	1	10/11/23 07:29	10/11/23 23:57	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/11/23 07:29	10/11/23 23:57	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/11/23 07:29	10/11/23 23:57	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	224	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Bicarbonate (CaCO3)	224	mg/L	10.0	10.0	1		10/10/23 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/10/23 19:40		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	553	mg/L	10.0	10.0	1		10/12/23 13:32		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		10/24/23 11:49		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: DUP-3		Lab ID: 50355871008		Collected: 10/09/23 08:00	Received: 10/09/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:27	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/10/23 21:14	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/10/23 21:14	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.36	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:11			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.4	mg/L	1.0	0.24	1		10/14/23 03:38	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/16/23 22:12			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	757743	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

METHOD BLANK:	3472604	Matrix:	Water
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/17/23 11:57	
Fluoride	mg/L	ND	0.10	0.017	10/17/23 11:57	
Sulfate	mg/L	ND	0.25	0.19	10/17/23 11:57	

LABORATORY CONTROL SAMPLE: 3472605						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	96	80-120	
Fluoride	mg/L	1	1.0	104	80-120	
Sulfate	mg/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472606												3472607	
Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	117	25	25	144	143	106	103	80-120	1	15		
Fluoride	mg/L	0.27	1	1	1.3	1.3	107	107	80-120	0	15		
Sulfate	mg/L	61.5	50	50	110	109	97	95	80-120	1	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	757617	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

METHOD BLANK: 3472245 Matrix: Water

Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/21/23 17:36	
Boron	ug/L	ND	100	11.4	10/21/23 17:36	
Calcium	ug/L	ND	1000	56.7	10/21/23 17:36	
Iron	ug/L	ND	100	18.1	10/21/23 17:36	
Lithium	ug/L	ND	20.0	5.1	10/21/23 17:36	
Magnesium	ug/L	ND	1000	32.8	10/21/23 17:36	
Manganese	ug/L	ND	10.0	1.1	10/21/23 17:36	
Molybdenum	ug/L	ND	10.0	1.1	10/21/23 17:36	
Potassium	ug/L	ND	1000	120	10/21/23 17:36	
Silica	ug/L	ND	450		10/21/23 17:36	N2
Sodium	ug/L	ND	1000	48.2	10/21/23 17:36	

LABORATORY CONTROL SAMPLE: 3472246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9910	99	80-120	
Boron	ug/L	1000	997	100	80-120	
Calcium	ug/L	10000	9960	100	80-120	
Iron	ug/L	10000	9650	97	80-120	
Lithium	ug/L	1000	989	99	80-120	
Magnesium	ug/L	10000	10200	102	80-120	
Manganese	ug/L	1000	966	97	80-120	
Molybdenum	ug/L	1000	998	100	80-120	
Potassium	ug/L	10000	10000	100	80-120	
Silica	ug/L	10700	10800	101	80-120	N2
Sodium	ug/L	10000	9860	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466980 3466981

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50355871001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	ND	10000	10000	9950	9810	99	98	75-125	1	20	
Boron	ug/L	392	1000	1000	1460	1440	107	105	75-125	2	20	
Calcium	ug/L	101000	10000	10000	111000	108000	101	73	75-125	3	20	P6
Iron	ug/L	ND	10000	10000	9890	9750	98	97	75-125	1	20	
Lithium	ug/L	ND	1000	1000	1010	1010	100	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466980 3466981														
Parameter	Units	50355871001		MS	MSD	3466981		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result							
Magnesium	ug/L	30000	10000	10000	40400	39600	104	96	75-125	2	20			
Manganese	ug/L	1040	1000	1000	2020	1980	98	94	75-125	2	20			
Molybdenum	ug/L	43.3	1000	1000	1100	1080	105	104	75-125	2	20			
Potassium	ug/L	5400	10000	10000	15300	15500	99	101	75-125	1	20			
Silica	ug/L	12100	10700	10700	23500	23100	106	102	75-125	2	20	N2		
Sodium	ug/L	79500	10000	10000	88900	87900	94	85	75-125	1	20			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	756874	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

METHOD BLANK:	3468920	Matrix:	Water
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/20/23 16:03	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/20/23 16:03	

LABORATORY CONTROL SAMPLE: 3468921						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1020	102	80-120	
Molybdenum, Dissolved	ug/L	1000	992	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468922												3468923	
Parameter	Units	50355871001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Manganese, Dissolved	ug/L	650	1000	1000	1610	1640	96	99	75-125	2	20		
Molybdenum, Dissolved	ug/L	41.5	1000	1000	1050	1060	100	102	75-125	1	20		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	756578	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

METHOD BLANK:	3467234	Matrix:	Water
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	10/11/23 22:28	
Arsenic	ug/L	ND	1.0	0.075	10/11/23 22:28	
Barium	ug/L	ND	1.0	0.077	10/11/23 22:28	
Cobalt	ug/L	ND	1.0	0.046	10/11/23 22:28	
Selenium	ug/L	ND	1.0	0.20	10/11/23 22:28	

LABORATORY CONTROL SAMPLE: 3467235						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.7	102	80-120	
Arsenic	ug/L	40	38.7	97	80-120	
Barium	ug/L	40	38.8	97	80-120	
Cobalt	ug/L	40	40.5	101	80-120	
Selenium	ug/L	40	39.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467236 3467237												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		50355870002	Result	Spike Conc.	Spike Conc.							
Antimony	ug/L	ND	ND	40	40	41.9	41.5	105	104	75-125	1	20
Arsenic	ug/L	4.2	4.2	40	40	42.8	42.1	97	95	75-125	2	20
Barium	ug/L	30.1	30.1	40	40	68.3	68.7	96	96	75-125	1	20
Cobalt	ug/L	0.15J	0.15J	40	40	38.2	38.3	95	95	75-125	0	20
Selenium	ug/L	ND	ND	40	40	16.6	16.5	41	41	75-125	1	20 M3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	756635	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

METHOD BLANK:	3467577	Matrix:	Water
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/10/23 19:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/10/23 19:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/10/23 19:40	

LABORATORY CONTROL SAMPLE: 3467578						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.8	98	90-110	

SAMPLE DUPLICATE: 3467579						
Parameter	Units	50355871001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	258	264	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	258	264	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	756995	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007		

METHOD BLANK:	3469323	Matrix:	Water
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/12/23 13:20	

LABORATORY CONTROL SAMPLE:	3469324					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	275	92	80-120	

SAMPLE DUPLICATE:	3469325					
Parameter	Units	50355756004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5630	5930	5	10	

SAMPLE DUPLICATE:	3469326					
Parameter	Units	50355754007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	504	494	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	756998	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355871008

METHOD BLANK: 3469339 Matrix: Water

Associated Lab Samples: 50355871008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/12/23 13:32	

LABORATORY CONTROL SAMPLE: 3469340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3469341

Parameter	Units	50355871008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	553	561	1	10	

SAMPLE DUPLICATE: 3469342

Parameter	Units	50355933004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	343	350	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch: 758423

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004

SAMPLE DUPLICATE: 3475829

Parameter	Units	50355871004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3475830

Parameter	Units	50355754007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch: 758818

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355871005, 50355871006, 50355871007, 50355871008

SAMPLE DUPLICATE: 3477531

Parameter	Units	50355871005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	1	2	H3

SAMPLE DUPLICATE: 3477532

Parameter	Units	50356097003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.6	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	756734	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

METHOD BLANK:	3467943	Matrix:	Water
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/11/23 13:43	

LABORATORY CONTROL SAMPLE:	3467944					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.48	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3467945												
		MS	MSD										
Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Sulfide	mg/L	ND	0.5	0.5	0.52	0.51	103	103	90-110	1	20		

MATRIX SPIKE SAMPLE:	3467947									
		50355871001	Spike	MS						
Parameter	Units	Result	Conc.	Result	% Rec	% Rec Limits	Qualifiers			
Sulfide	mg/L	ND	0.5	0.52	105	90-110				

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50355871

QC Batch: 757927 Analysis Method: HACH 8146
QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

METHOD BLANK: 3473366 Matrix: Water
Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 10:15	H3,N2

LABORATORY CONTROL SAMPLE: 3473367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.98	98	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473368 3473369

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	0.28	1	1	1.3	1.4	101	108	90-110	5	20	H3,N2

MATRIX SPIKE SAMPLE: 3473370

Parameter	Units	50355871006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.2	108	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	756646	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

METHOD BLANK:	3467629	Matrix:	Water
Associated Lab Samples:	50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/10/23 21:10	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/10/23 21:10	

LABORATORY CONTROL SAMPLE: 3467630						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	100	90-110	
Nitrogen, Nitrite	mg/L	1	0.98	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467631													3467632		
Parameter	Units	50355871008		MS	MSD	MS	MSD	MS	MSD	% Rec	Max				
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual		
Nitrogen, Nitrate	mg/L	ND	1	1	1.0	1.0	101	99	90-110	2	20				
Nitrogen, Nitrite	mg/L	ND	1	1	1.0	1.0	98	98	90-110	0	20				

MATRIX SPIKE SAMPLE: 3467633												
Parameter	Units	50355891002		Spike	MS	MS	% Rec	Qualifiers				
		Result	Conc.	Conc.	Result	% Rec	Limits	RPD	RPD	Qual		
Nitrogen, Nitrate	mg/L	ND	1	1	1.0	102	90-110					
Nitrogen, Nitrite	mg/L	0.0047J	1	1	0.99	98	90-110					

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch: 757768 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

METHOD BLANK: 3472717 Matrix: Water
 Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/17/23 17:54	

LABORATORY CONTROL SAMPLE: 3472718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472719 3472720

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.5	1.5					0	

MATRIX SPIKE SAMPLE: 3472721

Parameter	Units	50355871005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		ND	1.5			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50355871

QC Batch: 757257 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

METHOD BLANK: 3470587 Matrix: Water
 Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/14/23 00:10	

LABORATORY CONTROL SAMPLE: 3470588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470589 3470590

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.8	10	10	11.2	11.4	95	96	80-120	1	20	

MATRIX SPIKE SAMPLE: 3470591

Parameter	Units	50355754011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L		ND	10	13.3	94	80-120

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch: 757256 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006

METHOD BLANK: 3470576 Matrix: Water
 Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/13/23 18:30	

LABORATORY CONTROL SAMPLE: 3470577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470578 3470579

Parameter	Units	50355295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.3	10	10	10.7	10.8	94	95	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470580 3470581

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.8	10	10	11.3	11.2	95	94	80-120	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	757541	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355871007, 50355871008

METHOD BLANK: 3471990 Matrix: Water

Associated Lab Samples: 50355871007, 50355871008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/16/23 18:56	

LABORATORY CONTROL SAMPLE: 3471991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471992 3471993

Parameter	Units	50355430002		50355430003		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Dissolved Organic Carbon	mg/L	1.4	10	10	10.7	10.7	93	93	80-120	0	20		

MATRIX SPIKE SAMPLE: 3471994

Parameter	Units	50355430003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	10	10.7	96	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.198 ± 0.563 (1.19) C:NA T:85%	pCi/L	10/27/23 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.807 ± 0.427 (0.746) C:75% T:78%	pCi/L	10/25/23 12:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.807 ± 0.990 (1.94)	pCi/L	10/30/23 11:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.490 ± 0.715 (1.22) C:NA T:85%	pCi/L	10/27/23 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.767 ± 0.401 (0.684) C:77% T:73%	pCi/L	10/25/23 12:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.26 ± 1.12 (1.90)	pCi/L	10/30/23 11:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: MW-7S **Lab ID: 50355871003** Collected: 10/09/23 13:15 Received: 10/09/23 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.129 ± 0.311 (0.600) C:NA T:90%	pCi/L	10/27/23 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.949 ± 0.416 (0.660) C:78% T:79%	pCi/L	10/25/23 12:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.08 ± 0.727 (1.26)	pCi/L	10/30/23 11:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.123 ± 0.593 (1.12) C:NA T:87%	pCi/L	10/27/23 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.419 ± 0.344 (0.682) C:79% T:81%	pCi/L	10/25/23 12:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.542 ± 0.937 (1.80)	pCi/L	10/30/23 11:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.549 ± 0.577 (0.916) C:NA T:86%	pCi/L	10/27/23 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.419 ± 0.451 (0.946) C:79% T:78%	pCi/L	10/25/23 12:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.968 ± 1.03 (1.86)	pCi/L	10/30/23 11:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-111 Lab ID: 50355871006 Collected: 10/09/23 12:45 Received: 10/09/23 17:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.39 ± 0.805 (1.05) C:NA T:88%	pCi/L	10/27/23 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.05 ± 0.482 (0.821) C:80% T:82%	pCi/L	10/25/23 12:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.44 ± 1.29 (1.87)	pCi/L	10/30/23 11:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-11D Lab ID: 50355871007 Collected: 10/09/23 15:35 Received: 10/09/23 17:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.358 ± 0.524 (0.895) C:NA T:87%	pCi/L	10/27/23 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.498 ± 0.438 (0.894) C:79% T:81%	pCi/L	10/25/23 12:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.856 ± 0.962 (1.79)	pCi/L	10/30/23 11:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Sample: DUP-3 **Lab ID: 50355871008** Collected: 10/09/23 08:00 Received: 10/09/23 17:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.595 ± 0.539 (0.794) C:NA T:81%	pCi/L	10/27/23 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.483 ± 0.465 (0.962) C:76% T:82%	pCi/L	10/25/23 12:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.08 ± 1.00 (1.76)	pCi/L	10/30/23 11:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	622680	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: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

METHOD BLANK: 3035249 Matrix: Water

Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0937 ± 0.214 (0.345) C:NA T:88%	pCi/L	10/27/23 15:07	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

QC Batch:	622681	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: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

METHOD BLANK: 3035250 Matrix: Water

Associated Lab Samples: 50355871001, 50355871002, 50355871003, 50355871004, 50355871005, 50355871006, 50355871007, 50355871008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.406 ± 0.335 (0.650) C:75% T:79%	pCi/L	10/25/23 12:09	

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

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QUALIFIERS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355871001	MW-3S	EPA 9056	757743		
50355871002	MW-3I	EPA 9056	757743		
50355871003	MW-7S	EPA 9056	757743		
50355871004	MW-9I	EPA 9056	757743		
50355871005	MW-9D	EPA 9056	757743		
50355871006	MW-11I	EPA 9056	757743		
50355871007	MW-11D	EPA 9056	757743		
50355871008	DUP-3	EPA 9056	757743		
50355871001	MW-3S	EPA 3010	757617	EPA 6010	758493
50355871002	MW-3I	EPA 3010	757617	EPA 6010	758493
50355871003	MW-7S	EPA 3010	757617	EPA 6010	758493
50355871004	MW-9I	EPA 3010	757617	EPA 6010	758493
50355871005	MW-9D	EPA 3010	757617	EPA 6010	758493
50355871006	MW-11I	EPA 3010	757617	EPA 6010	758493
50355871007	MW-11D	EPA 3010	757617	EPA 6010	758493
50355871008	DUP-3	EPA 3010	757617	EPA 6010	758493
50355871001	MW-3S	EPA 3010	756874	EPA 6010	758446
50355871002	MW-3I	EPA 3010	756874	EPA 6010	758446
50355871003	MW-7S	EPA 3010	756874	EPA 6010	758446
50355871004	MW-9I	EPA 3010	756874	EPA 6010	758446
50355871005	MW-9D	EPA 3010	756874	EPA 6010	758446
50355871006	MW-11I	EPA 3010	756874	EPA 6010	758446
50355871007	MW-11D	EPA 3010	756874	EPA 6010	758446
50355871008	DUP-3	EPA 3010	756874	EPA 6010	758446
50355871001	MW-3S	EPA 200.2	756578	EPA 6020	756718
50355871002	MW-3I	EPA 200.2	756578	EPA 6020	756718
50355871003	MW-7S	EPA 200.2	756578	EPA 6020	756718
50355871004	MW-9I	EPA 200.2	756578	EPA 6020	756718
50355871005	MW-9D	EPA 200.2	756578	EPA 6020	756718
50355871006	MW-11I	EPA 200.2	756578	EPA 6020	756718
50355871007	MW-11D	EPA 200.2	756578	EPA 6020	756718
50355871008	DUP-3	EPA 200.2	756578	EPA 6020	756718
50355871001	MW-3S	EPA 903.1	622680		
50355871002	MW-3I	EPA 903.1	622680		
50355871003	MW-7S	EPA 903.1	622680		
50355871004	MW-9I	EPA 903.1	622680		
50355871005	MW-9D	EPA 903.1	622680		
50355871006	MW-11I	EPA 903.1	622680		
50355871007	MW-11D	EPA 903.1	622680		
50355871008	DUP-3	EPA 903.1	622680		
50355871001	MW-3S	EPA 904.0	622681		
50355871002	MW-3I	EPA 904.0	622681		
50355871003	MW-7S	EPA 904.0	622681		
50355871004	MW-9I	EPA 904.0	622681		
50355871005	MW-9D	EPA 904.0	622681		
50355871006	MW-11I	EPA 904.0	622681		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355871007	MW-11D	EPA 904.0	622681		
50355871008	DUP-3	EPA 904.0	622681		
50355871001	MW-3S	Total Radium Calculation	625705		
50355871002	MW-3I	Total Radium Calculation	625705		
50355871003	MW-7S	Total Radium Calculation	625705		
50355871004	MW-9I	Total Radium Calculation	625705		
50355871005	MW-9D	Total Radium Calculation	625705		
50355871006	MW-11I	Total Radium Calculation	625705		
50355871007	MW-11D	Total Radium Calculation	625705		
50355871008	DUP-3	Total Radium Calculation	625705		
50355871001	MW-3S	SM 2320B	756635		
50355871002	MW-3I	SM 2320B	756635		
50355871003	MW-7S	SM 2320B	756635		
50355871004	MW-9I	SM 2320B	756635		
50355871005	MW-9D	SM 2320B	756635		
50355871006	MW-11I	SM 2320B	756635		
50355871007	MW-11D	SM 2320B	756635		
50355871008	DUP-3	SM 2320B	756635		
50355871001	MW-3S	SM 2540C	756995		
50355871002	MW-3I	SM 2540C	756995		
50355871003	MW-7S	SM 2540C	756995		
50355871004	MW-9I	SM 2540C	756995		
50355871005	MW-9D	SM 2540C	756995		
50355871006	MW-11I	SM 2540C	756995		
50355871007	MW-11D	SM 2540C	756995		
50355871008	DUP-3	SM 2540C	756998		
50355871001	MW-3S	SM 4500-H+B	758423		
50355871002	MW-3I	SM 4500-H+B	758423		
50355871003	MW-7S	SM 4500-H+B	758423		
50355871004	MW-9I	SM 4500-H+B	758423		
50355871005	MW-9D	SM 4500-H+B	758818		
50355871006	MW-11I	SM 4500-H+B	758818		
50355871007	MW-11D	SM 4500-H+B	758818		
50355871008	DUP-3	SM 4500-H+B	758818		
50355871001	MW-3S	SM 4500-S2-D	756734		
50355871002	MW-3I	SM 4500-S2-D	756734		
50355871003	MW-7S	SM 4500-S2-D	756734		
50355871004	MW-9I	SM 4500-S2-D	756734		
50355871005	MW-9D	SM 4500-S2-D	756734		
50355871006	MW-11I	SM 4500-S2-D	756734		
50355871007	MW-11D	SM 4500-S2-D	756734		
50355871008	DUP-3	SM 4500-S2-D	756734		
50355871001	MW-3S	HACH 8146	757927		
50355871002	MW-3I	HACH 8146	757927		
50355871003	MW-7S	HACH 8146	757927		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50355871

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355871004	MW-9I	HACH 8146	757927		
50355871005	MW-9D	HACH 8146	757927		
50355871006	MW-11I	HACH 8146	757927		
50355871007	MW-11D	HACH 8146	757927		
50355871008	DUP-3	HACH 8146	757927		
50355871001	MW-3S	EPA 353.2	756646		
50355871002	MW-3I	EPA 353.2	756646		
50355871003	MW-7S	EPA 353.2	756646		
50355871004	MW-9I	EPA 353.2	756646		
50355871005	MW-9D	EPA 353.2	756646		
50355871006	MW-11I	EPA 353.2	756646		
50355871007	MW-11D	EPA 353.2	756646		
50355871008	DUP-3	EPA 353.2	756646		
50355871001	MW-3S	EPA 365.1	757768	EPA 365.1	757972
50355871002	MW-3I	EPA 365.1	757768	EPA 365.1	757972
50355871003	MW-7S	EPA 365.1	757768	EPA 365.1	757972
50355871004	MW-9I	EPA 365.1	757768	EPA 365.1	757972
50355871005	MW-9D	EPA 365.1	757768	EPA 365.1	757972
50355871006	MW-11I	EPA 365.1	757768	EPA 365.1	757972
50355871007	MW-11D	EPA 365.1	757768	EPA 365.1	757972
50355871008	DUP-3	EPA 365.1	757768	EPA 365.1	757972
50355871001	MW-3S	SM 5310C	757257		
50355871002	MW-3I	SM 5310C	757257		
50355871003	MW-7S	SM 5310C	757257		
50355871004	MW-9I	SM 5310C	757257		
50355871005	MW-9D	SM 5310C	757257		
50355871006	MW-11I	SM 5310C	757257		
50355871007	MW-11D	SM 5310C	757257		
50355871008	DUP-3	SM 5310C	757257		
50355871001	MW-3S	SM 5310C	757256		
50355871002	MW-3I	SM 5310C	757256		
50355871003	MW-7S	SM 5310C	757256		
50355871004	MW-9I	SM 5310C	757256		
50355871005	MW-9D	SM 5310C	757256		
50355871006	MW-11I	SM 5310C	757256		
50355871007	MW-11D	SM 5310C	757541		
50355871008	DUP-3	SM 5310C	757541		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 10-9-23 17:41

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H
4. Cooler Temperature(s): see comments
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO₃</u>	<input checked="" type="checkbox"/>		Circle: <u>HNO₃ (<2)</u> <u>H₂SO₄ (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab Time:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS: Temps : 0.4/0.4 , 0.5/0.5 , 2.2/2.2 , 0.2/0.2 , 0.2/0.2 RC 10-9-23



February 08, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R2
Pace Project No.: 50355989

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355989001	MW-14S	Water	10/10/23 09:55	10/10/23 16:00
50355989002	MW-14I	Water	10/10/23 11:15	10/10/23 16:00
50355989003	MW-14D	Water	10/10/23 13:50	10/10/23 16:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355989001	MW-14S	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50355989002	MW-14I	EPA 9056	KBB
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	DMT			5	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	AEL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	AEL			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50355989003	MW-14D			EPA 9056	KBB
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355989001	MW-14S					
EPA 9056	Chloride	2.9	mg/L	0.25	10/19/23 12:20	
EPA 9056	Sulfate	14.9	mg/L	0.25	10/19/23 12:20	
EPA 6010	Boron	211	ug/L	100	10/13/23 15:19	
EPA 6010	Calcium	96200	ug/L	1000	10/13/23 15:19	
EPA 6010	Magnesium	24600	ug/L	1000	10/13/23 15:19	
EPA 6010	Molybdenum	42.1	ug/L	10.0	10/13/23 15:19	
EPA 6010	Potassium	1660	ug/L	1000	10/13/23 15:19	
EPA 6010	Silica	13100	ug/L	450	10/13/23 15:19	N2
EPA 6010	Sodium	5620	ug/L	1000	10/13/23 15:19	
EPA 6010	Molybdenum, Dissolved	46.1	ug/L	10.0	10/20/23 16:27	
EPA 6020	Barium	27.8	ug/L	1.0	10/12/23 01:56	
EPA 903.1	Radium-226	0.237 ± 0.221 (0.291)	pCi/L		11/01/23 12:25	
EPA 904.0	Radium-228	0.144 ± 0.378 (0.842)	pCi/L		10/24/23 12:27	
		C:NA T:84%				
		0.381 ± 0.599 (1.13)	pCi/L		11/02/23 11:28	
		T:84%				
Total Radium Calculation	Total Radium					
SM 2320B	Alkalinity, Total as CaCO3	296	mg/L	10.0	10/11/23 22:22	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	296	mg/L	10.0	10/11/23 22:22	
SM 2540C	Total Dissolved Solids	358	mg/L	10.0	10/14/23 18:02	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/20/23 16:46	H3
EPA 353.2	Nitrogen, Nitrate	9.9	mg/L	0.50	10/11/23 23:55	
EPA 365.1	Phosphate as P04	1.0	mg/L	0.15	10/20/23 11:55	
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	10/17/23 21:09	
SM 5310C	Dissolved Organic Carbon	2.2	mg/L	1.0	10/16/23 22:23	
50355989002	MW-14I					
EPA 9056	Chloride	76.9	mg/L	2.5	10/19/23 12:54	
EPA 9056	Sulfate	190	mg/L	2.5	10/19/23 12:54	
EPA 6010	Boron	3880	ug/L	100	10/13/23 15:20	
EPA 6010	Calcium	127000	ug/L	1000	10/13/23 15:20	
EPA 6010	Lithium	65.2	ug/L	20.0	10/13/23 15:20	
EPA 6010	Magnesium	29900	ug/L	1000	10/13/23 15:20	
EPA 6010	Molybdenum	85.7	ug/L	10.0	10/13/23 15:20	
EPA 6010	Potassium	4120	ug/L	1000	10/13/23 15:20	
EPA 6010	Silica	14600	ug/L	450	10/13/23 15:20	N2
EPA 6010	Sodium	67900	ug/L	1000	10/13/23 15:20	
EPA 6010	Molybdenum, Dissolved	89.5	ug/L	10.0	10/20/23 16:29	
EPA 6020	Barium	50.9	ug/L	1.0	10/12/23 01:59	
EPA 903.1	Radium-226	0.478 ± 0.429 (0.652)	pCi/L		11/01/23 12:25	
		C:NA T:76%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355989002	MW-14I					
EPA 904.0	Radium-228	0.402 ± 0.446 (0.936) C:79% T:76%	pCi/L		10/24/23 12:27	
Total Radium Calculation	Total Radium	0.880 ± 0.875 (1.59)	pCi/L		11/02/23 11:28	
SM 2320B	Alkalinity, Total as CaCO3	271	mg/L	10.0	10/11/23 22:22	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	271	mg/L	10.0	10/11/23 22:22	
SM 2540C	Total Dissolved Solids	696	mg/L	10.0	10/14/23 18:02	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/20/23 16:47	H3
EPA 353.2	Nitrogen, Nitrate	0.35	mg/L	0.10	10/11/23 22:55	
EPA 365.1	Phosphate as P04	0.15	mg/L	0.15	10/20/23 11:56	
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	10/17/23 22:03	
SM 5310C	Dissolved Organic Carbon	1.5	mg/L	1.0	10/16/23 22:33	
50355989003	MW-14D					
EPA 9056	Chloride	84.4	mg/L	25.0	10/19/23 08:23	
EPA 9056	Sulfate	275	mg/L	25.0	10/19/23 08:23	
EPA 6010	Boron	2950	ug/L	100	10/13/23 15:22	
EPA 6010	Calcium	155000	ug/L	1000	10/13/23 15:22	
EPA 6010	Lithium	23.2	ug/L	20.0	10/13/23 15:22	
EPA 6010	Magnesium	33300	ug/L	1000	10/13/23 15:22	
EPA 6010	Manganese	106	ug/L	10.0	10/13/23 15:22	
EPA 6010	Molybdenum	19.7	ug/L	10.0	10/13/23 15:22	
EPA 6010	Potassium	3700	ug/L	1000	10/13/23 15:22	
EPA 6010	Silica	15200	ug/L	450	10/13/23 15:22	N2
EPA 6010	Sodium	81800	ug/L	1000	10/13/23 15:22	
EPA 6010	Manganese, Dissolved	118	ug/L	10.0	10/20/23 16:34	
EPA 6010	Molybdenum, Dissolved	19.9	ug/L	10.0	10/20/23 16:34	
EPA 6020	Barium	23.6	ug/L	1.0	10/12/23 03:58	
EPA 903.1	Radium-226	0.199 ± 0.366 (0.653) C:NA T:71%	pCi/L		11/01/23 12:25	
EPA 904.0	Radium-228	0.702 ± 0.541 (1.08) C:76% T:71%	pCi/L		10/24/23 12:27	
Total Radium Calculation	Total Radium	0.901 ± 0.907 (1.73)	pCi/L		11/02/23 11:28	
SM 2320B	Alkalinity, Total as CaCO3	283	mg/L	10.0	10/11/23 22:22	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	283	mg/L	10.0	10/11/23 22:22	
SM 2540C	Total Dissolved Solids	856	mg/L	10.0	10/14/23 18:03	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/20/23 16:48	H3
EPA 353.2	Nitrogen, Nitrate	2.2	mg/L	0.10	10/11/23 23:10	
SM 5310C	Total Organic Carbon	1.9	mg/L	1.0	10/17/23 22:13	
SM 5310C	Dissolved Organic Carbon	3.1	mg/L	1.0	10/16/23 23:12	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Sample: MW-14S Lab ID: 50355989001 Collected: 10/10/23 09:55 Received: 10/10/23 16:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	2.9	mg/L	0.25	0.067	1		10/19/23 12:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/19/23 12:20	16984-48-8	
Sulfate	14.9	mg/L	0.25	0.19	1		10/19/23 12:20	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/12/23 08:10	10/13/23 15:19	7429-90-5	
Boron	211	ug/L	100	11.4	1	10/12/23 08:10	10/13/23 15:19	7440-42-8	
Calcium	96200	ug/L	1000	56.7	1	10/12/23 08:10	10/13/23 15:19	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/12/23 08:10	10/13/23 15:19	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/12/23 08:10	10/13/23 15:19	7439-93-2	
Magnesium	24600	ug/L	1000	32.8	1	10/12/23 08:10	10/13/23 15:19	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:19	7439-96-5	
Molybdenum	42.1	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:19	7439-98-7	
Potassium	1660	ug/L	1000	120	1	10/12/23 08:10	10/13/23 15:19	7440-09-7	
Silica	13100	ug/L	450		1	10/12/23 08:10	10/13/23 15:19	7631-86-9	N2
Sodium	5620	ug/L	1000	48.2	1	10/12/23 08:10	10/13/23 15:19	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:27	7439-96-5	
Molybdenum, Dissolved	46.1	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:27	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 01:56	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 01:56	7440-38-2	
Barium	27.8	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 01:56	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 01:56	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 01:56	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	296	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Bicarbonate (CaCO3)	296	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 22:22		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	358	mg/L	10.0	10.0	1		10/14/23 18:02		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		10/20/23 16:46		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Sample: MW-14S		Lab ID: 50355989001		Collected: 10/10/23 09:55	Received: 10/10/23 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:49	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	9.9	mg/L	0.50	0.055	5		10/11/23 23:55	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.50	0.020	5		10/11/23 23:55	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	1.0	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 11:55		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.7	mg/L	1.0	0.24	1		10/17/23 21:09	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.2	mg/L	1.0	0.24	1		10/16/23 22:23		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Sample: MW-14I		Lab ID: 50355989002		Collected: 10/10/23 11:15		Received: 10/10/23 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	76.9	mg/L	2.5	0.67	10		10/19/23 12:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/19/23 12:37	16984-48-8	
Sulfate	190	mg/L	2.5	1.9	10		10/19/23 12:54	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/12/23 08:10	10/13/23 15:20	7429-90-5	
Boron	3880	ug/L	100	11.4	1	10/12/23 08:10	10/13/23 15:20	7440-42-8	
Calcium	127000	ug/L	1000	56.7	1	10/12/23 08:10	10/13/23 15:20	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/12/23 08:10	10/13/23 15:20	7439-89-6	
Lithium	65.2	ug/L	20.0	5.1	1	10/12/23 08:10	10/13/23 15:20	7439-93-2	
Magnesium	29900	ug/L	1000	32.8	1	10/12/23 08:10	10/13/23 15:20	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:20	7439-96-5	
Molybdenum	85.7	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:20	7439-98-7	
Potassium	4120	ug/L	1000	120	1	10/12/23 08:10	10/13/23 15:20	7440-09-7	
Silica	14600	ug/L	450		1	10/12/23 08:10	10/13/23 15:20	7631-86-9	N2
Sodium	67900	ug/L	1000	48.2	1	10/12/23 08:10	10/13/23 15:20	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:29	7439-96-5	
Molybdenum, Dissolved	89.5	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:29	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 01:59	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 01:59	7440-38-2	
Barium	50.9	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 01:59	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 01:59	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 01:59	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	271	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Bicarbonate (CaCO3)	271	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 22:22		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	696	mg/L	10.0	10.0	1		10/14/23 18:02		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		10/20/23 16:47		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Sample: MW-14I		Lab ID: 50355989002		Collected: 10/10/23 11:15	Received: 10/10/23 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:49	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	0.35	mg/L	0.10	0.011	1		10/11/23 22:55	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 22:55	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.15	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 11:56			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.6	mg/L	1.0	0.24	1		10/17/23 22:03	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.5	mg/L	1.0	0.24	1		10/16/23 22:33			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Sample: MW-14D		Lab ID: 50355989003		Collected: 10/10/23 13:50		Received: 10/10/23 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	84.4	mg/L	25.0	6.7	100		10/19/23 08:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/19/23 08:06	16984-48-8	
Sulfate	275	mg/L	25.0	19.0	100		10/19/23 08:23	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/12/23 08:10	10/13/23 15:22	7429-90-5	
Boron	2950	ug/L	100	11.4	1	10/12/23 08:10	10/13/23 15:22	7440-42-8	
Calcium	155000	ug/L	1000	56.7	1	10/12/23 08:10	10/13/23 15:22	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/12/23 08:10	10/13/23 15:22	7439-89-6	
Lithium	23.2	ug/L	20.0	5.1	1	10/12/23 08:10	10/13/23 15:22	7439-93-2	
Magnesium	33300	ug/L	1000	32.8	1	10/12/23 08:10	10/13/23 15:22	7439-95-4	
Manganese	106	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:22	7439-96-5	
Molybdenum	19.7	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:22	7439-98-7	
Potassium	3700	ug/L	1000	120	1	10/12/23 08:10	10/13/23 15:22	7440-09-7	
Silica	15200	ug/L	450		1	10/12/23 08:10	10/13/23 15:22	7631-86-9	N2
Sodium	81800	ug/L	1000	48.2	1	10/12/23 08:10	10/13/23 15:22	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	118	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:34	7439-96-5	
Molybdenum, Dissolved	19.9	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:34	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 03:58	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 03:58	7440-38-2	
Barium	23.6	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 03:58	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 03:58	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 03:58	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	283	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Bicarbonate (CaCO3)	283	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 22:22		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	856	mg/L	10.0	10.0	1		10/14/23 18:03		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/20/23 16:48		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50355989

Sample: MW-14D		Lab ID: 50355989003		Collected: 10/10/23 13:50	Received: 10/10/23 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:49	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	2.2	mg/L	0.10	0.011	1		10/11/23 23:10	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:10	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 11:56		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.9	mg/L	1.0	0.24	1		10/17/23 22:13	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	3.1	mg/L	1.0	0.24	1		10/16/23 23:12		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	757745	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355989001, 50355989002, 50355989003

METHOD BLANK: 3472609 Matrix: Water

Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/19/23 16:51	
Fluoride	mg/L	ND	0.10	0.017	10/19/23 16:51	
Sulfate	mg/L	ND	0.25	0.19	10/19/23 16:51	

LABORATORY CONTROL SAMPLE: 3472610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472611 3472612

Parameter	Units	50356097003		3472611		3472612		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	0.89	2.5	2.5	3.1	3.1	89	89	80-120	0	15		
Fluoride	mg/L	ND	1	1	0.91	0.91	91	91	80-120	0	15		
Sulfate	mg/L	26.6	5	5	31.0	31.0	87	89	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2
Pace Project No.: 50355989

QC Batch: 756653 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355989001, 50355989002, 50355989003

METHOD BLANK: 3467658 Matrix: Water
Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/13/23 11:19	
Boron	ug/L	ND	100	11.4	10/13/23 11:19	
Calcium	ug/L	ND	1000	56.7	10/13/23 11:19	
Iron	ug/L	ND	100	18.1	10/13/23 11:19	
Lithium	ug/L	ND	20.0	5.1	10/13/23 11:19	
Magnesium	ug/L	ND	1000	32.8	10/13/23 11:19	
Manganese	ug/L	ND	10.0	1.1	10/13/23 11:19	
Molybdenum	ug/L	ND	10.0	1.1	10/13/23 11:19	
Potassium	ug/L	ND	1000	120	10/13/23 11:19	
Silica	ug/L	ND	450		10/13/23 11:19	N2
Sodium	ug/L	ND	1000	48.2	10/13/23 11:19	

LABORATORY CONTROL SAMPLE: 3467659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10500	105	80-120	
Boron	ug/L	1000	998	100	80-120	
Calcium	ug/L	10000	10600	106	80-120	
Iron	ug/L	10000	10100	101	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	10200	102	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Molybdenum	ug/L	1000	1040	104	80-120	
Potassium	ug/L	10000	10300	103	80-120	
Silica	ug/L	10700	11100	103	80-120	N2
Sodium	ug/L	10000	10300	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467660 3467661

Parameter	Units	50355933004		3467661		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	ND	10000	10000	9990	10200	99	101	75-125	2	20	
Boron	ug/L	ND	1000	1000	1050	1070	97	99	75-125	2	20	
Calcium	ug/L	52.9 mg/L	10000	10000	60300	61600	74	87	75-125	2	20	P6
Iron	ug/L	0.37 mg/L	10000	10000	10900	10200	105	98	75-125	7	20	
Lithium	ug/L	ND	1000	1000	956	963	95	96	75-125	1	20	
Magnesium	ug/L	19.1 mg/L	10000	10000	27800	28300	87	92	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467660 3467661											
Parameter	Units	50355933004 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Manganese	ug/L	0.20 mg/L	1000	1000	1140	1150	94	95	75-125	1	20
Molybdenum	ug/L	ND	1000	1000	993	1010	99	101	75-125	2	20
Potassium	ug/L	3.7 mg/L	10000	10000	12700	13000	91	93	75-125	2	20
Silica	ug/L	7.3 mg/L	10700	10700	17900	18200	99	102	75-125	2	20 N2
Sodium	ug/L	49.0 mg/L	10000	10000	56400	57400	74	84	75-125	2	20 P6

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	756874	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355989001, 50355989002, 50355989003		

METHOD BLANK: 3468920 Matrix: Water

Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/20/23 16:03	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/20/23 16:03	

LABORATORY CONTROL SAMPLE: 3468921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1020	102	80-120	
Molybdenum, Dissolved	ug/L	1000	992	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468922 3468923

Parameter	Units	50355871001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	650	1000	1000	1610	1640	96	99	75-125	2	20	
Molybdenum, Dissolved	ug/L	41.5	1000	1000	1050	1060	100	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	756678	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355989001, 50355989002, 50355989003

METHOD BLANK: 3467765 Matrix: Water

Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	10/12/23 01:49	
Arsenic	ug/L	ND	1.0	0.064	10/12/23 01:49	
Barium	ug/L	ND	1.0	0.067	10/12/23 01:49	
Cobalt	ug/L	ND	1.0	0.024	10/12/23 01:49	
Selenium	ug/L	ND	1.0	0.23	10/12/23 01:49	

LABORATORY CONTROL SAMPLE: 3467766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.0	100	80-120	
Arsenic	ug/L	40	39.1	98	80-120	
Barium	ug/L	40	39.1	98	80-120	
Cobalt	ug/L	40	40.4	101	80-120	
Selenium	ug/L	40	39.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467767 3467768

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355989002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	42.7	42.0	107	105	75-125	2	20
Arsenic	ug/L	ND	40	40	39.5	40.2	98	100	75-125	2	20
Barium	ug/L	50.9	40	40	94.1	93.5	108	106	75-125	1	20
Cobalt	ug/L	ND	40	40	37.4	37.7	93	94	75-125	1	20
Selenium	ug/L	ND	40	40	38.7	39.0	97	97	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	756852	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355989001, 50355989002, 50355989003		

METHOD BLANK: 3468736 Matrix: Water

Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/11/23 22:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/11/23 22:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/11/23 22:22	

LABORATORY CONTROL SAMPLE: 3468737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	90-110	

SAMPLE DUPLICATE: 3468738

Parameter	Units	50355891001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	252	257	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	252	257	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3468739

Parameter	Units	50355944001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	253000 ug/L	256	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	253000 ug/L	256	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	757390	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355989001, 50355989002, 50355989003		

METHOD BLANK: 3471608 Matrix: Water

Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/14/23 17:59	

LABORATORY CONTROL SAMPLE: 3471609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3471610

Parameter	Units	50355872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	892	894	0	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch: 758356

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355989001, 50355989002, 50355989003

SAMPLE DUPLICATE: 3475506

Parameter	Units	50355885001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	2	H3

SAMPLE DUPLICATE: 3475507

Parameter	Units	50356016004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	756735	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355989001, 50355989002, 50355989003		

METHOD BLANK: 3467948 Matrix: Water
 Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/11/23 17:12	

LABORATORY CONTROL SAMPLE: 3467949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467950 3467951

Parameter	Units	50355989001		3467951		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide	mg/L	ND	0.5	0.5	0.48	0.51	97	101	90-110	5	20

MATRIX SPIKE SAMPLE: 3467952

Parameter	Units	50356001001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.46	92	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	757927	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355989001, 50355989002, 50355989003		

METHOD BLANK: 3473366 Matrix: Water
 Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 10:15	H3,N2

LABORATORY CONTROL SAMPLE: 3473367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.98	98	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473368 3473369

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	0.28	1	1	1.3	1.4	101	108	90-110	5	20	H3,N2

MATRIX SPIKE SAMPLE: 3473370

Parameter	Units	50355871006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.2	108	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	756875	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355989001, 50355989002, 50355989003		

METHOD BLANK: 3468930 Matrix: Water

Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/11/23 22:40	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/11/23 22:40	

LABORATORY CONTROL SAMPLE: 3468931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	100	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 3468932

Parameter	Units	50356016007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.53	1	1.6	108	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	98	90-110	

MATRIX SPIKE SAMPLE: 3468933

Parameter	Units	50356191006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	7.9	5	12.6	94	90-110	
Nitrogen, Nitrite	mg/L	ND	5	5.0	99	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	757907	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355989001, 50355989002, 50355989003		

METHOD BLANK: 3473299 Matrix: Water
 Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/20/23 11:44	

LABORATORY CONTROL SAMPLE: 3473300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473307 3473308

Parameter	Units	50355891001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	1.7			1.6	1.6				0		

MATRIX SPIKE SAMPLE: 3473309

Parameter	Units	50355896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	0.22		1.6			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	757749	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355989001, 50355989002, 50355989003

METHOD BLANK: 3472653 Matrix: Water
 Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/17/23 20:39	

LABORATORY CONTROL SAMPLE: 3472654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472655 3472656

Parameter	Units	50355989001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.7	10	10	10.5	10.4	88	87	80-120	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	757541	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355989001, 50355989002, 50355989003		

METHOD BLANK: 3471990 Matrix: Water

Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/16/23 18:56	

LABORATORY CONTROL SAMPLE: 3471991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471992 3471993

Parameter	Units	50355430002		50355430003		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Spike Conc.	MSD Spike Conc.								
Dissolved Organic Carbon	mg/L	1.4	10	10	10.7	10.7	93	93	80-120	0	20		

MATRIX SPIKE SAMPLE: 3471994

Parameter	Units	50355430003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	10	10.7	96	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Sample: MW-14S **Lab ID: 50355989001** Collected: 10/10/23 09:55 Received: 10/10/23 16:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.237 ± 0.221 (0.291) C:NA T:84%	pCi/L	11/01/23 12:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.144 ± 0.378 (0.842) C:78% T:84%	pCi/L	10/24/23 12:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.381 ± 0.599 (1.13)	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.478 ± 0.429 (0.652) C:NA T:76%	pCi/L	11/01/23 12:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.402 ± 0.446 (0.936) C:79% T:76%	pCi/L	10/24/23 12:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.880 ± 0.875 (1.59)	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Sample: MW-14D **Lab ID: 50355989003** Collected: 10/10/23 13:50 Received: 10/10/23 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.199 ± 0.366 (0.653) C:NA T:71%	pCi/L	11/01/23 12:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.702 ± 0.541 (1.08) C:76% T:71%	pCi/L	10/24/23 12:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.901 ± 0.907 (1.73)	pCi/L	11/02/23 11:28	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch:	622684	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: 50355989001, 50355989002, 50355989003

METHOD BLANK: 3035258 Matrix: Water

Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.470 ± 0.337 (0.642) C:73% T:84%	pCi/L	10/24/23 12:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

QC Batch: 622683

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: 50355989001, 50355989002, 50355989003

METHOD BLANK: 3035256

Matrix: Water

Associated Lab Samples: 50355989001, 50355989002, 50355989003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.185 (0.376) C:NA T:84%	pCi/L	11/01/23 12:01	

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QUALIFIERS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355989001	MW-14S	EPA 9056	757745		
50355989002	MW-14I	EPA 9056	757745		
50355989003	MW-14D	EPA 9056	757745		
50355989001	MW-14S	EPA 3010	756653	EPA 6010	757219
50355989002	MW-14I	EPA 3010	756653	EPA 6010	757219
50355989003	MW-14D	EPA 3010	756653	EPA 6010	757219
50355989001	MW-14S	EPA 3010	756874	EPA 6010	758446
50355989002	MW-14I	EPA 3010	756874	EPA 6010	758446
50355989003	MW-14D	EPA 3010	756874	EPA 6010	758446
50355989001	MW-14S	EPA 200.2	756678	EPA 6020	756885
50355989002	MW-14I	EPA 200.2	756678	EPA 6020	756885
50355989003	MW-14D	EPA 200.2	756678	EPA 6020	756885
50355989001	MW-14S	EPA 903.1	622683		
50355989002	MW-14I	EPA 903.1	622683		
50355989003	MW-14D	EPA 903.1	622683		
50355989001	MW-14S	EPA 904.0	622684		
50355989002	MW-14I	EPA 904.0	622684		
50355989003	MW-14D	EPA 904.0	622684		
50355989001	MW-14S	Total Radium Calculation	626736		
50355989002	MW-14I	Total Radium Calculation	626736		
50355989003	MW-14D	Total Radium Calculation	626736		
50355989001	MW-14S	SM 2320B	756852		
50355989002	MW-14I	SM 2320B	756852		
50355989003	MW-14D	SM 2320B	756852		
50355989001	MW-14S	SM 2540C	757390		
50355989002	MW-14I	SM 2540C	757390		
50355989003	MW-14D	SM 2540C	757390		
50355989001	MW-14S	SM 4500-H+B	758356		
50355989002	MW-14I	SM 4500-H+B	758356		
50355989003	MW-14D	SM 4500-H+B	758356		
50355989001	MW-14S	SM 4500-S2-D	756735		
50355989002	MW-14I	SM 4500-S2-D	756735		
50355989003	MW-14D	SM 4500-S2-D	756735		
50355989001	MW-14S	HACH 8146	757927		
50355989002	MW-14I	HACH 8146	757927		
50355989003	MW-14D	HACH 8146	757927		
50355989001	MW-14S	EPA 353.2	756875		
50355989002	MW-14I	EPA 353.2	756875		
50355989003	MW-14D	EPA 353.2	756875		
50355989001	MW-14S	EPA 365.1	757907	EPA 365.1	758405
50355989002	MW-14I	EPA 365.1	757907	EPA 365.1	758405
50355989003	MW-14D	EPA 365.1	757907	EPA 365.1	758405

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50355989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355989001	MW-14S	SM 5310C	757749		
50355989002	MW-14I	SM 5310C	757749		
50355989003	MW-14D	SM 5310C	757749		
50355989001	MW-14S	SM 5310C	757541		
50355989002	MW-14I	SM 5310C	757541		
50355989003	MW-14D	SM 5310C	757541		

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WO#: 50355989



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Consent and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Section A

Required Client Information:

Company: Atlas Indianapolis
 Address: 7988 Centerpoint Drive
 Suite-100, Indianapolis, IN 46256
 Email: mark.breting@oneatlas.com
 Phone: 317-313-8306 Fax:
 Requested Due Date:

Required Project Information:

Report To: Mark Breting
 Copy To:
 Purchase Order #:
 Project Name: Eagle Valley October 2023
 Project #: 170LP01502

Section C

Invoice Information:

Attention: Accounts Payable - Paula Sedam
 Company Name: Atlas Indianapolis
 Address:
 Pace Quote:
 Pace Project Manager: will.statz@pacelabs.com
 Pace Profile #: 10498/46

Page: 1 Of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)				
				START		END				Preservatives														
				DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N						
1	NW-14 S	WG		10/10/23	0955	11	3	3	4	1													001	
2	MW-14 I				1115																			002
3	MW-14 V				1350																			003
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	Haydn Jones ATLAS	10-10	6:07pm	J Lawrence	10/10/23	1800	0.7	Y	N	Y
6020 - Co, As, Se, Sb, Ba (5)										
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, sila (11)										
6010 Dis - Mn, Mo (2)										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	Keegan Lambert				
SIGNATURE of SAMPLER:	Keegan Lambert				



SAMPLE CONDITION UPON RECEIPT FORM

10/10/23 1840 LL

Date/Time and Initials of person examining contents:

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

4. Cooler Temperature(s): 0.7 / 0.7
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis: NO ₂ / NO ₃	<input checked="" type="checkbox"/>		Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab Time: walk-placed in 1900			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?			
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	AMBER GLASS											PLASTIC							OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc											
	WG9H	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S		BP3B	BP3Z	CG3H	CG3F	Syringe Kit	CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black			
	WG9H	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S		BP3B	BP3Z	CG3H	CG3F	Syringe Kit	CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black			
	WG9H	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S		BP3B	BP3Z	CG3H	CG3F	Syringe Kit	CG3H	CG3F	Syringe Kit	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9			
1																																W	✓	✓		✓	
2																																		✓	✓		✓
3																																		✓	✓		✓
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					

Container Codes

Glass			
DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic			
BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic	Miscellaneous	
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic	Syringe Kit	LL Cr+6 sampling kit
BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
BP2S	500mL H2SO4 plastic	R	Terracore Kit
BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
BP2Z	500mL NaOH, Zn Ac	GN	General Container
BP3B	250mL NaOH plastic	U	Summa Can (air sample)
BP3N	250mL HNO3 plastic	WT	Water
BP3F	250mL HNO3 plastic-field filtered	SL	Solid
BP3U	250mL unpreserved plastic	OL	Oil
BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe
BP3R	250mL Unpres FF SO4/OH buffer		



February 08, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R3
Pace Project No.: 50356001

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R3
Pace Project No.: 50356001

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50356001001	MW-10I	Water	10/10/23 13:55	10/10/23 18:00
50356001002	MW-10D	Water	10/10/23 11:50	10/10/23 18:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356001001	MW-10I	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	BEP	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50356001002	MW-10D	EPA 9056	KBB
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	DMT			5	PASI-I
EPA 903.1	MAR1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	AEL			1	PASI-I
HACH 8146	BEP			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356001001	MW-10I					
EPA 9056	Chloride	178	mg/L	2.5	10/19/23 08:56	
EPA 9056	Fluoride	0.23	mg/L	0.10	10/19/23 08:39	
EPA 9056	Sulfate	441	mg/L	2.5	10/19/23 08:56	
EPA 6010	Boron	1340	ug/L	100	10/13/23 15:23	
EPA 6010	Calcium	216000	ug/L	2000	10/13/23 15:36	
EPA 6010	Lithium	58.9	ug/L	20.0	10/13/23 15:23	
EPA 6010	Magnesium	43900	ug/L	1000	10/13/23 15:23	
EPA 6010	Manganese	84.2	ug/L	10.0	10/13/23 15:23	
EPA 6010	Molybdenum	118	ug/L	10.0	10/13/23 15:23	
EPA 6010	Potassium	10600	ug/L	1000	10/13/23 15:23	
EPA 6010	Silica	10400	ug/L	450	10/13/23 15:23	N2
EPA 6010	Sodium	131000	ug/L	1000	10/13/23 15:23	
EPA 6010	Manganese, Dissolved	89.6	ug/L	10.0	10/20/23 16:35	
EPA 6010	Molybdenum, Dissolved	123	ug/L	10.0	10/20/23 16:35	
EPA 6020	Barium	64.7	ug/L	1.0	10/12/23 04:01	
EPA 903.1	Radium-226	0.983 ± 0.701 (0.984)	pCi/L		10/27/23 15:32	
EPA 904.0	Radium-228	0.889 ± 0.486 (0.894)	pCi/L		10/25/23 12:13	
		C:NA T:79%				
		C:79%				
		T:79%				
Total Radium Calculation	Total Radium	1.87 ± 1.19 (1.88)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	257	mg/L	10.0	10/11/23 22:22	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	257	mg/L	10.0	10/11/23 22:22	
SM 2540C	Total Dissolved Solids	1230	mg/L	20.0	10/16/23 11:53	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/20/23 16:48	H3
EPA 353.2	Nitrogen, Nitrate	0.10	mg/L	0.10	10/11/23 23:14	
SM 5310C	Total Organic Carbon	2.1	mg/L	1.0	10/17/23 22:24	
SM 5310C	Dissolved Organic Carbon	2.2	mg/L	1.0	10/16/23 23:23	
50356001002	MW-10D					
EPA 9056	Chloride	161	mg/L	2.5	10/19/23 09:47	
EPA 9056	Fluoride	0.14	mg/L	0.10	10/19/23 09:30	
EPA 9056	Sulfate	351	mg/L	2.5	10/19/23 09:47	
EPA 6010	Boron	338	ug/L	100	10/13/23 15:24	
EPA 6010	Calcium	170000	ug/L	1000	10/13/23 15:24	
EPA 6010	Iron	278	ug/L	100	10/13/23 15:24	
EPA 6010	Lithium	54.7	ug/L	20.0	10/13/23 15:24	
EPA 6010	Magnesium	40200	ug/L	1000	10/13/23 15:24	
EPA 6010	Manganese	197	ug/L	10.0	10/13/23 15:24	
EPA 6010	Molybdenum	83.7	ug/L	10.0	10/13/23 15:24	
EPA 6010	Potassium	8380	ug/L	1000	10/13/23 15:24	
EPA 6010	Silica	12600	ug/L	450	10/13/23 15:24	N2
EPA 6010	Sodium	99600	ug/L	1000	10/13/23 15:24	
EPA 6010	Manganese, Dissolved	213	ug/L	10.0	10/20/23 16:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356001002	MW-10D					
EPA 6010	Molybdenum, Dissolved	85.8	ug/L	10.0	10/20/23 16:37	
EPA 6020	Barium	124	ug/L	1.0	10/12/23 04:04	
EPA 903.1	Radium-226	0.0637 ± 0.572 (1.11) C:NA T:80%	pCi/L		10/27/23 15:32	
EPA 904.0	Radium-228	1.24 ± 0.562 (0.962) C:77% T:78%	pCi/L		10/25/23 12:13	
Total Radium Calculation	Total Radium	1.30 ± 1.13 (2.07)	pCi/L		10/30/23 11:54	
SM 2320B	Alkalinity, Total as CaCO3	243	mg/L	10.0	10/11/23 22:22	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	243	mg/L	10.0	10/11/23 22:22	
SM 2540C	Total Dissolved Solids	996	mg/L	20.0	10/16/23 11:53	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/20/23 16:49	H3
SM 5310C	Total Organic Carbon	2.0	mg/L	1.0	10/17/23 22:35	
SM 5310C	Dissolved Organic Carbon	2.2	mg/L	1.0	10/16/23 23:34	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

Sample: MW-10I		Lab ID: 50356001001		Collected: 10/10/23 13:55	Received: 10/10/23 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	178	mg/L	2.5	0.67	10		10/19/23 08:56	16887-00-6	
Fluoride	0.23	mg/L	0.10	0.017	1		10/19/23 08:39	16984-48-8	
Sulfate	441	mg/L	2.5	1.9	10		10/19/23 08:56	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/12/23 08:10	10/13/23 15:23	7429-90-5	
Boron	1340	ug/L	100	11.4	1	10/12/23 08:10	10/13/23 15:23	7440-42-8	
Calcium	216000	ug/L	2000	113	2	10/12/23 08:10	10/13/23 15:36	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/12/23 08:10	10/13/23 15:23	7439-89-6	
Lithium	58.9	ug/L	20.0	5.1	1	10/12/23 08:10	10/13/23 15:23	7439-93-2	
Magnesium	43900	ug/L	1000	32.8	1	10/12/23 08:10	10/13/23 15:23	7439-95-4	
Manganese	84.2	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:23	7439-96-5	
Molybdenum	118	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:23	7439-98-7	
Potassium	10600	ug/L	1000	120	1	10/12/23 08:10	10/13/23 15:23	7440-09-7	
Silica	10400	ug/L	450		1	10/12/23 08:10	10/13/23 15:23	7631-86-9	N2
Sodium	131000	ug/L	1000	48.2	1	10/12/23 08:10	10/13/23 15:23	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	89.6	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:35	7439-96-5	
Molybdenum, Dissolved	123	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:35	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 04:01	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 04:01	7440-38-2	
Barium	64.7	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 04:01	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 04:01	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 04:01	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	257	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Bicarbonate (CaCO3)	257	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 22:22		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1230	mg/L	20.0	20.0	1		10/16/23 11:53		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/20/23 16:48		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

Sample: MW-10I		Lab ID: 50356001001		Collected: 10/10/23 13:55	Received: 10/10/23 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 16:05	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	0.10	mg/L	0.10	0.011	1		10/11/23 23:14	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:14	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 11:58			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.1	mg/L	1.0	0.24	1		10/17/23 22:24	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.2	mg/L	1.0	0.24	1		10/16/23 23:23			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

Sample: MW-10D		Lab ID: 50356001002		Collected: 10/10/23 11:50		Received: 10/10/23 18:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	161	mg/L	2.5	0.67	10		10/19/23 09:47	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.017	1		10/19/23 09:30	16984-48-8	
Sulfate	351	mg/L	2.5	1.9	10		10/19/23 09:47	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/12/23 08:10	10/13/23 15:24	7429-90-5	
Boron	338	ug/L	100	11.4	1	10/12/23 08:10	10/13/23 15:24	7440-42-8	
Calcium	170000	ug/L	1000	56.7	1	10/12/23 08:10	10/13/23 15:24	7440-70-2	
Iron	278	ug/L	100	18.1	1	10/12/23 08:10	10/13/23 15:24	7439-89-6	
Lithium	54.7	ug/L	20.0	5.1	1	10/12/23 08:10	10/13/23 15:24	7439-93-2	
Magnesium	40200	ug/L	1000	32.8	1	10/12/23 08:10	10/13/23 15:24	7439-95-4	
Manganese	197	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:24	7439-96-5	
Molybdenum	83.7	ug/L	10.0	1.1	1	10/12/23 08:10	10/13/23 15:24	7439-98-7	
Potassium	8380	ug/L	1000	120	1	10/12/23 08:10	10/13/23 15:24	7440-09-7	
Silica	12600	ug/L	450		1	10/12/23 08:10	10/13/23 15:24	7631-86-9	N2
Sodium	99600	ug/L	1000	48.2	1	10/12/23 08:10	10/13/23 15:24	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	213	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:37	7439-96-5	
Molybdenum, Dissolved	85.8	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:37	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 04:04	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 04:04	7440-38-2	
Barium	124	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 04:04	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 04:04	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 04:04	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	243	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Bicarbonate (CaCO3)	243	mg/L	10.0	10.0	1		10/11/23 22:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 22:22		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	996	mg/L	20.0	20.0	1		10/16/23 11:53		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		10/20/23 16:49		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R3
 Pace Project No.: 50356001

Sample: MW-10D		Lab ID: 50356001002		Collected: 10/10/23 11:50	Received: 10/10/23 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/17/23 16:05	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/11/23 23:03	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:03	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 12:02			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.0	mg/L	1.0	0.24	1		10/17/23 22:35	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.2	mg/L	1.0	0.24	1		10/16/23 23:34			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch:	757745	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3472609 Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/19/23 16:51	
Fluoride	mg/L	ND	0.10	0.017	10/19/23 16:51	
Sulfate	mg/L	ND	0.25	0.19	10/19/23 16:51	

LABORATORY CONTROL SAMPLE: 3472610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472611 3472612

Parameter	Units	50356097003		3472611		3472612		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	0.89	2.5	2.5	3.1	3.1	89	89	80-120	0	15		
Fluoride	mg/L	ND	1	1	0.91	0.91	91	91	80-120	0	15		
Sulfate	mg/L	26.6	5	5	31.0	31.0	87	89	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3
Pace Project No.: 50356001

QC Batch: 756653 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3467658 Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/13/23 11:19	
Boron	ug/L	ND	100	11.4	10/13/23 11:19	
Calcium	ug/L	ND	1000	56.7	10/13/23 11:19	
Iron	ug/L	ND	100	18.1	10/13/23 11:19	
Lithium	ug/L	ND	20.0	5.1	10/13/23 11:19	
Magnesium	ug/L	ND	1000	32.8	10/13/23 11:19	
Manganese	ug/L	ND	10.0	1.1	10/13/23 11:19	
Molybdenum	ug/L	ND	10.0	1.1	10/13/23 11:19	
Potassium	ug/L	ND	1000	120	10/13/23 11:19	
Silica	ug/L	ND	450		10/13/23 11:19	N2
Sodium	ug/L	ND	1000	48.2	10/13/23 11:19	

LABORATORY CONTROL SAMPLE: 3467659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10500	105	80-120	
Boron	ug/L	1000	998	100	80-120	
Calcium	ug/L	10000	10600	106	80-120	
Iron	ug/L	10000	10100	101	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	10200	102	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Molybdenum	ug/L	1000	1040	104	80-120	
Potassium	ug/L	10000	10300	103	80-120	
Silica	ug/L	10700	11100	103	80-120	N2
Sodium	ug/L	10000	10300	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467660 3467661

Parameter	Units	50355933004		3467660		3467661		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Aluminum	ug/L	ND	10000	10000	9990	10200	99	101	75-125	2	20		
Boron	ug/L	ND	1000	1000	1050	1070	97	99	75-125	2	20		
Calcium	ug/L	52.9 mg/L	10000	10000	60300	61600	74	87	75-125	2	20	P6	
Iron	ug/L	0.37 mg/L	10000	10000	10900	10200	105	98	75-125	7	20		
Lithium	ug/L	ND	1000	1000	956	963	95	96	75-125	1	20		
Magnesium	ug/L	19.1 mg/L	10000	10000	27800	28300	87	92	75-125	2	20		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467660 3467661											
Parameter	Units	50355933004 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Manganese	ug/L	0.20 mg/L	1000	1000	1140	1150	94	95	75-125	1	20
Molybdenum	ug/L	ND	1000	1000	993	1010	99	101	75-125	2	20
Potassium	ug/L	3.7 mg/L	10000	10000	12700	13000	91	93	75-125	2	20
Silica	ug/L	7.3 mg/L	10700	10700	17900	18200	99	102	75-125	2	20 N2
Sodium	ug/L	49.0 mg/L	10000	10000	56400	57400	74	84	75-125	2	20 P6

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch: 756874	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3468920 Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/20/23 16:03	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/20/23 16:03	

LABORATORY CONTROL SAMPLE: 3468921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1020	102	80-120	
Molybdenum, Dissolved	ug/L	1000	992	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468922 3468923

Parameter	Units	50355871001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	650	1000	1000	1610	1640	96	99	75-125	2	20	
Molybdenum, Dissolved	ug/L	41.5	1000	1000	1050	1060	100	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3
 Pace Project No.: 50356001

QC Batch: 756678 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3467765 Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	10/12/23 01:49	
Arsenic	ug/L	ND	1.0	0.064	10/12/23 01:49	
Barium	ug/L	ND	1.0	0.067	10/12/23 01:49	
Cobalt	ug/L	ND	1.0	0.024	10/12/23 01:49	
Selenium	ug/L	ND	1.0	0.23	10/12/23 01:49	

LABORATORY CONTROL SAMPLE: 3467766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.0	100	80-120	
Arsenic	ug/L	40	39.1	98	80-120	
Barium	ug/L	40	39.1	98	80-120	
Cobalt	ug/L	40	40.4	101	80-120	
Selenium	ug/L	40	39.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467767 3467768

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355989002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	42.7	42.0	107	105	75-125	2	20
Arsenic	ug/L	ND	40	40	39.5	40.2	98	100	75-125	2	20
Barium	ug/L	50.9	40	40	94.1	93.5	108	106	75-125	1	20
Cobalt	ug/L	ND	40	40	37.4	37.7	93	94	75-125	1	20
Selenium	ug/L	ND	40	40	38.7	39.0	97	97	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch:	756852	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3468736 Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/11/23 22:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/11/23 22:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/11/23 22:22	

LABORATORY CONTROL SAMPLE: 3468737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	90-110	

SAMPLE DUPLICATE: 3468738

Parameter	Units	50355891001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	252	257	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	252	257	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3468739

Parameter	Units	50355944001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	253000 ug/L	256	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	253000 ug/L	256	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch: 757503

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3471896

Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/16/23 11:52	

LABORATORY CONTROL SAMPLE: 3471897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 3471898

Parameter	Units	50356001001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1230	1230	0	10	

SAMPLE DUPLICATE: 3471899

Parameter	Units	50356058001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	11600	12800	10	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch: 758356

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

SAMPLE DUPLICATE: 3475506

Parameter	Units	50355885001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	2	H3

SAMPLE DUPLICATE: 3475507

Parameter	Units	50356016004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch:	756735	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3467948 Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/11/23 17:12	

LABORATORY CONTROL SAMPLE: 3467949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467950 3467951

Parameter	Units	50355989001		3467950		3467951		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS % Rec	MSD % Rec					
Sulfide	mg/L	ND	0.5	0.5	0.48	0.51	97	101	90-110	5	20	

MATRIX SPIKE SAMPLE: 3467952

Parameter	Units	50356001001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.46	92	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3
 Pace Project No.: 50356001

QC Batch: 757789 Analysis Method: HACH 8146
 QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3472804 Matrix: Water
 Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/17/23 15:43	H3,N2

LABORATORY CONTROL SAMPLE: 3472805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472806 3472807

Parameter	Units	50355295001		3472806		3472807		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Iron, Ferrous	mg/L	ND	1	1	1.1	1.1	104	107	90-110	3	20	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472808 3472809

Parameter	Units	50355430002		3472808		3472809		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result					
Iron, Ferrous	mg/L	ND	1	1	1.0	1.1	103	105	90-110	2	20	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch: 756875	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3468930 Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/11/23 22:40	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/11/23 22:40	

LABORATORY CONTROL SAMPLE: 3468931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	100	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 3468932

Parameter	Units	50356016007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.53	1	1.6	108	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	98	90-110	

MATRIX SPIKE SAMPLE: 3468933

Parameter	Units	50356191006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	7.9	5	12.6	94	90-110	
Nitrogen, Nitrite	mg/L	ND	5	5.0	99	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch:	757907	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001

METHOD BLANK: 3473299 Matrix: Water

Associated Lab Samples: 50356001001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/20/23 11:44	

LABORATORY CONTROL SAMPLE: 3473300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473307 3473308

Parameter	Units	50355891001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	1.7			1.6	1.6				0		

MATRIX SPIKE SAMPLE: 3473309

Parameter	Units	50355896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	0.22		1.6			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch: 757908

Analysis Method: EPA 365.1

QC Batch Method: EPA 365.1

Analysis Description: 365.1 Total Phosphorus

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001002

METHOD BLANK: 3473303

Matrix: Water

Associated Lab Samples: 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/20/23 12:01	

LABORATORY CONTROL SAMPLE: 3473304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473305 3473306

Parameter	Units	50356016001		3473306		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Phosphate as P04	mg/L	ND		1.6	1.6				0		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch: 757749	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Total Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3472653 Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/17/23 20:39	

LABORATORY CONTROL SAMPLE: 3472654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472655 3472656

Parameter	Units	3472655		3472656		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/L	1.7	10	10.5	10.4	88	87	80-120	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch:	757541	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356001001, 50356001002

METHOD BLANK: 3471990 Matrix: Water
 Associated Lab Samples: 50356001001, 50356001002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/16/23 18:56	

LABORATORY CONTROL SAMPLE: 3471991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471992 3471993

Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.4	10	10	10.7	10.7	93	93	80-120	0	20	

MATRIX SPIKE SAMPLE: 3471994

Parameter	Units	50355430003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	10	10.7	96	80-120	

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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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-101 Lab ID: 50356001001 Collected: 10/10/23 13:55 Received: 10/10/23 18:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.983 ± 0.701 (0.984) C:NA T:79%	pCi/L	10/27/23 15:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.889 ± 0.486 (0.894) C:79% T:79%	pCi/L	10/25/23 12:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.87 ± 1.19 (1.88)	pCi/L	10/30/23 11:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-10D Lab ID: 50356001002 Collected: 10/10/23 11:50 Received: 10/10/23 18:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0637 ± 0.572 (1.11) C:NA T:80%	pCi/L	10/27/23 15:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.24 ± 0.562 (0.962) C:77% T:78%	pCi/L	10/25/23 12:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.30 ± 1.13 (2.07)	pCi/L	10/30/23 11:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch: 622680

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: 50356001001, 50356001002

METHOD BLANK: 3035249

Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0937 ± 0.214 (0.345) C:NA T:88%	pCi/L	10/27/23 15:07	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

QC Batch: 622681

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: 50356001001, 50356001002

METHOD BLANK: 3035250

Matrix: Water

Associated Lab Samples: 50356001001, 50356001002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.406 ± 0.335 (0.650) C:75% T:79%	pCi/L	10/25/23 12:09	

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

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QUALIFIERS

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R3

Pace Project No.: 50356001

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356001001	MW-10I	EPA 9056	757745		
50356001002	MW-10D	EPA 9056	757745		
50356001001	MW-10I	EPA 3010	756653	EPA 6010	757219
50356001002	MW-10D	EPA 3010	756653	EPA 6010	757219
50356001001	MW-10I	EPA 3010	756874	EPA 6010	758446
50356001002	MW-10D	EPA 3010	756874	EPA 6010	758446
50356001001	MW-10I	EPA 200.2	756678	EPA 6020	756885
50356001002	MW-10D	EPA 200.2	756678	EPA 6020	756885
50356001001	MW-10I	EPA 903.1	622680		
50356001002	MW-10D	EPA 903.1	622680		
50356001001	MW-10I	EPA 904.0	622681		
50356001002	MW-10D	EPA 904.0	622681		
50356001001	MW-10I	Total Radium Calculation	625705		
50356001002	MW-10D	Total Radium Calculation	625705		
50356001001	MW-10I	SM 2320B	756852		
50356001002	MW-10D	SM 2320B	756852		
50356001001	MW-10I	SM 2540C	757503		
50356001002	MW-10D	SM 2540C	757503		
50356001001	MW-10I	SM 4500-H+B	758356		
50356001002	MW-10D	SM 4500-H+B	758356		
50356001001	MW-10I	SM 4500-S2-D	756735		
50356001002	MW-10D	SM 4500-S2-D	756735		
50356001001	MW-10I	HACH 8146	757789		
50356001002	MW-10D	HACH 8146	757789		
50356001001	MW-10I	EPA 353.2	756875		
50356001002	MW-10D	EPA 353.2	756875		
50356001001	MW-10I	EPA 365.1	757907	EPA 365.1	758405
50356001002	MW-10D	EPA 365.1	757908	EPA 365.1	758407
50356001001	MW-10I	SM 5310C	757749		
50356001002	MW-10D	SM 5310C	757749		
50356001001	MW-10I	SM 5310C	757541		
50356001002	MW-10D	SM 5310C	757541		

REPORT OF LABORATORY ANALYSIS

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WO#: 50356001



50356001

CHAIN-OF-CUSTODY / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:

Section C Invoice Information:

Page: 1 Of 1

Company: Atlas Indianapolis, Report To: Mark Breting, Attention: Accounts Payable - Paula Sedam, Address: 7988 Centerpoint Drive, Copy To: Company Name: Atlas Indianapolis, Suite 100, Indianapolis, IN 46256, Email: mark.breting@oneatlas.com, Purchase Order #: , Phone: 317-313-8306, Fax: , Project Name: Eagle Valley October 2023, Pace Project Manager: will.statz@pacelabs.com, Requested Due Date: Std, Project #: 170LF01502, Pace Profile #: 10498/46

Regulatory Agency, State / Location, IN

Table with columns: ITEM #, MATRIX CODE, SAMPLE TYPE, COLLECTED (START/END), PRESERVATIVES, ANALYSES TEST, REQUESTED ANALYSIS FILTERED (Y/N), Residual Chlorine (Y/N). Includes handwritten data for items 1 and 2.

Table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS. Includes handwritten signatures and dates.

SAMPLER NAME AND SIGNATURE, PRINT Name of SAMPLER: Erika Valerio, SIGNATURE of SAMPLER: [Signature], DATE Signed: 10/10/2023, TEMP in C, Received on Ice (Y/N), Custody Sealed Cooler (Y/N), Samples Intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

10/10/23 1840 LL

Date/Time and Initials of person examining contents:

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes) Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

4. Cooler Temperature(s):
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	/		
Short Hold Time Analysis (48 hours or less)? Analysis: NO ₂ / NO ₃	/		Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab		Time: <i>walked in 1900</i>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			/

COMMENTS:

Sample Container Count

** Place a RED dot on containers

that are out of conformance **

COC Line Item	WGKU BG1U	MeOH (only) SBS DI	R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS						PLASTIC						OTHER			Syringe Kit	Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc			
								AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B			BP3Z	CG3H	CG3F	Red	Yellow	Green	Black
																												HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																							WA	↘	✓	✓		✓			
2																								↘	✓	✓		✓			
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass	
DG9H	40mL HCl amber voa vial
DG9P	40mL TSP amber vial
DG9S	40mL H2SO4 amber vial
DG9T	40mL Na Thio amber vial
DG9U	40mL unpreserved amber vial
VG9H	40mL HCl clear vial
VG9T	40mL Na Thio. clear vial
VG9U	40mL unpreserved clear vial
I	40mL w/hexane wipe vial
WGKU	8oz unpreserved clear jar
WGFU	4oz clear soil jar
JGFU	4oz unpreserved amber wide
CG3H	250mL clear glass HCl
CG3F	250mL clear glass HCl, Field Filter
BG1H	1L HCl clear glass
BG1S	1L H2SO4 clear glass

Plastic	
BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP3R	250mL Unpres. FF SO4/OH buffer

Miscellaneous	
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
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



January 26, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356016

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356016

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50356016001	MW-6I	Water	10/10/23 12:50	10/10/23 18:00
50356016002	MW-6D	Water	10/10/23 10:35	10/10/23 18:00
50356016003	MW-2S	Water	10/10/23 10:45	10/10/23 18:00
50356016004	MW-2I	Water	10/10/23 13:50	10/10/23 18:00
50356016005	MW-2D	Water	10/10/23 12:30	10/10/23 18:00
50356016006	MW-3D	Water	10/10/23 16:20	10/10/23 18:00
50356016007	DUP-4	Water	10/10/23 08:00	10/10/23 18:00

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356016

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356016001	MW-6I	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50356016002	MW-6D	EPA 9056	ADM
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	DMT			5	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	AEL			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50356016003	MW-2S			EPA 9056	ADM
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356016004	MW-2I	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
SM 4500-H+B	LHZ	1	PASI-I		
SM 4500-S2-D	AEL	1	PASI-I		
HACH 8146	STS	1	PASI-I		
EPA 353.2	DAW	2	PASI-I		
EPA 365.1	YAM	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
50356016005	MW-2D	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50356016006	MW-3D	SM 4500-S2-D	AEL	1	PASI-I		
		HACH 8146	STS	1	PASI-I		
		EPA 353.2	DAW	2	PASI-I		
		EPA 365.1	YAM	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		EPA 9056	ADM	3	PASI-I		
		EPA 6010	MTM	11	PASI-I		
		EPA 6010	MTM	2	PASI-I		
		EPA 6020	DMT	5	PASI-I		
		EPA 903.1	LL1	1	PASI-PA		
		EPA 904.0	JJS1	1	PASI-PA		
		Total Radium Calculation	JAL	1	PASI-PA		
		SM 2320B	DAW	3	PASI-I		
		SM 2540C	IRH	1	PASI-I		
		SM 4500-H+B	LHZ	1	PASI-I		
		SM 4500-S2-D	AEL	1	PASI-I		
		HACH 8146	STS	1	PASI-I		
		50356016007	DUP-4	EPA 353.2	DAW	2	PASI-I
				EPA 365.1	YAM	1	PASI-I
SM 5310C	ATS			1	PASI-I		
SM 5310C	ATS			1	PASI-I		
EPA 9056	ADM			3	PASI-I		
EPA 6010	MTM			11	PASI-I		
EPA 6010	MTM			2	PASI-I		
EPA 6020	DMT			5	PASI-I		
EPA 903.1	LL1			1	PASI-PA		
EPA 904.0	JJS1			1	PASI-PA		
Total Radium Calculation	JAL			1	PASI-PA		
SM 2320B	DAW			3	PASI-I		
SM 2540C	IRH			1	PASI-I		
SM 4500-H+B	LHZ			1	PASI-I		
SM 4500-S2-D	AEL			1	PASI-I		
HACH 8146	STS			1	PASI-I		
EPA 353.2	DAW			2	PASI-I		
EPA 365.1	YAM			1	PASI-I		
SM 5310C	ATS			1	PASI-I		

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356016

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356016001	MW-6I					
EPA 9056	Chloride	73.6	mg/L	2.5	10/19/23 16:39	
EPA 9056	Fluoride	0.29	mg/L	0.10	10/19/23 16:21	
EPA 9056	Sulfate	172	mg/L	2.5	10/19/23 16:39	
EPA 6010	Boron	2020	ug/L	100	10/25/23 11:42	
EPA 6010	Calcium	117000	ug/L	1000	10/25/23 11:42	
EPA 6010	Lithium	100	ug/L	20.0	10/25/23 11:42	
EPA 6010	Magnesium	24500	ug/L	1000	10/25/23 11:42	
EPA 6010	Manganese	78.4	ug/L	10.0	10/25/23 11:42	
EPA 6010	Molybdenum	160	ug/L	10.0	10/25/23 11:42	
EPA 6010	Potassium	14100	ug/L	1000	10/25/23 11:42	
EPA 6010	Silica	10900	ug/L	450	10/25/23 11:42	N2
EPA 6010	Sodium	81300	ug/L	1000	10/25/23 11:42	
EPA 6010	Manganese, Dissolved	70.8	ug/L	10.0	10/20/23 16:38	
EPA 6010	Molybdenum, Dissolved	165	ug/L	10.0	10/20/23 16:38	
EPA 6020	Barium	76.4	ug/L	1.0	10/12/23 04:07	
EPA 903.1	Radium-226	1.03 ± 0.505 (0.562)	pCi/L		11/01/23 12:01	
EPA 904.0	Radium-228	C:NA T:76% 0.682 ± 0.463 (0.903)	pCi/L		10/24/23 12:26	
		C:83% T:76%				
Total Radium Calculation	Total Radium	1.71 ± 0.968 (1.47)	pCi/L		11/02/23 11:28	
SM 2320B	Alkalinity, Total as CaCO3	302	mg/L	10.0	10/11/23 19:43	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	302	mg/L	10.0	10/11/23 19:43	
SM 2540C	Total Dissolved Solids	677	mg/L	10.0	10/16/23 11:53	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/20/23 16:49	H3
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	10/14/23 05:59	
SM 5310C	Dissolved Organic Carbon	2.2	mg/L	1.0	10/14/23 10:45	
50356016002	MW-6D					
EPA 9056	Chloride	81.7	mg/L	2.5	10/19/23 17:30	
EPA 9056	Fluoride	0.17	mg/L	0.10	10/19/23 17:13	
EPA 9056	Sulfate	76.1	mg/L	2.5	10/19/23 17:30	
EPA 6010	Boron	1840	ug/L	100	10/25/23 11:44	
EPA 6010	Calcium	76800	ug/L	1000	10/25/23 11:44	
EPA 6010	Iron	113	ug/L	100	10/25/23 11:44	
EPA 6010	Lithium	71.1	ug/L	20.0	10/25/23 11:44	
EPA 6010	Magnesium	14500	ug/L	1000	10/25/23 11:44	
EPA 6010	Manganese	332	ug/L	10.0	10/25/23 11:44	
EPA 6010	Molybdenum	203	ug/L	10.0	10/25/23 11:44	
EPA 6010	Potassium	5730	ug/L	1000	10/25/23 11:44	
EPA 6010	Silica	11600	ug/L	450	10/25/23 11:44	N2
EPA 6010	Sodium	76600	ug/L	1000	10/25/23 11:44	
EPA 6010	Manganese, Dissolved	298	ug/L	10.0	10/20/23 16:40	
EPA 6010	Molybdenum, Dissolved	204	ug/L	10.0	10/20/23 16:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356016002	MW-6D					
EPA 6020	Barium	62.0	ug/L	1.0	10/12/23 04:17	
EPA 903.1	Radium-226	0.128 ± 0.346 (0.641) C:NA T:83%	pCi/L		11/01/23 12:13	
EPA 904.0	Radium-228	0.749 ± 0.466 (0.894) C:82% T:83%	pCi/L		10/24/23 12:26	
Total Radium Calculation	Total Radium	0.877 ± 0.812 (1.54)	pCi/L		11/02/23 11:28	
SM 2320B	Alkalinity, Total as CaCO3	223	mg/L	10.0	10/11/23 19:43	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	223	mg/L	10.0	10/11/23 19:43	
SM 2540C	Total Dissolved Solids	497	mg/L	10.0	10/16/23 11:53	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/20/23 16:50	H3
SM 5310C	Total Organic Carbon	1.1	mg/L	1.0	10/14/23 20:49	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/14/23 10:55	
50356016003	MW-2S					
EPA 9056	Chloride	75.8	mg/L	2.5	10/19/23 18:56	
EPA 9056	Fluoride	0.16	mg/L	0.10	10/19/23 18:39	
EPA 9056	Sulfate	70.5	mg/L	2.5	10/19/23 18:56	
EPA 6010	Boron	550	ug/L	100	10/25/23 11:45	
EPA 6010	Calcium	124000	ug/L	1000	10/25/23 11:45	
EPA 6010	Lithium	35.7	ug/L	20.0	10/25/23 11:45	
EPA 6010	Magnesium	27000	ug/L	1000	10/25/23 11:45	
EPA 6010	Manganese	33.4	ug/L	10.0	10/25/23 11:45	
EPA 6010	Potassium	5570	ug/L	1000	10/25/23 11:45	
EPA 6010	Silica	14100	ug/L	450	10/25/23 11:45	N2
EPA 6010	Sodium	69400	ug/L	1000	10/25/23 11:45	
EPA 6020	Arsenic	5.9	ug/L	1.0	10/12/23 04:21	
EPA 6020	Barium	107	ug/L	1.0	10/12/23 04:21	
EPA 6020	Selenium	4.5	ug/L	1.0	10/12/23 04:21	
EPA 903.1	Radium-226	0.279 ± 0.260 (0.342) C:NA T:75%	pCi/L		11/01/23 12:13	
EPA 904.0	Radium-228	0.472 ± 0.405 (0.818) C:80% T:75%	pCi/L		10/24/23 12:26	
Total Radium Calculation	Total Radium	0.751 ± 0.665 (1.16)	pCi/L		11/02/23 11:28	
SM 2320B	Alkalinity, Total as CaCO3	391	mg/L	10.0	10/11/23 19:43	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	391	mg/L	10.0	10/11/23 19:43	
SM 2540C	Total Dissolved Solids	605	mg/L	10.0	10/16/23 11:54	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/20/23 16:50	H3

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356016003	MW-2S					
EPA 353.2	Nitrogen, Nitrate	0.54	mg/L	0.10	10/11/23 22:51	
EPA 365.1	Phosphate as P04	0.23	mg/L	0.15	10/20/23 12:06	
SM 5310C	Total Organic Carbon	1.2	mg/L	1.0	10/14/23 21:15	
SM 5310C	Dissolved Organic Carbon	2.9	mg/L	1.0	10/14/23 11:05	
50356016004	MW-2I					
EPA 9056	Chloride	96.5	mg/L	2.5	10/19/23 19:47	
EPA 9056	Fluoride	0.27	mg/L	0.10	10/19/23 19:30	
EPA 9056	Sulfate	88.5	mg/L	2.5	10/19/23 19:47	
EPA 6010	Boron	204	ug/L	100	10/25/23 11:47	
EPA 6010	Calcium	74200	ug/L	1000	10/25/23 11:47	
EPA 6010	Iron	124	ug/L	100	10/25/23 11:47	
EPA 6010	Lithium	32.9	ug/L	20.0	10/25/23 11:47	
EPA 6010	Magnesium	22100	ug/L	1000	10/25/23 11:47	
EPA 6010	Manganese	174	ug/L	10.0	10/25/23 11:47	
EPA 6010	Molybdenum	76.7	ug/L	10.0	10/25/23 11:47	
EPA 6010	Potassium	7940	ug/L	1000	10/25/23 11:47	
EPA 6010	Silica	11700	ug/L	450	10/25/23 11:47	N2
EPA 6010	Sodium	85100	ug/L	1000	10/25/23 11:47	
EPA 6010	Manganese, Dissolved	120	ug/L	10.0	10/20/23 16:43	
EPA 6010	Molybdenum, Dissolved	78.6	ug/L	10.0	10/20/23 16:43	
EPA 6020	Barium	75.1	ug/L	1.0	10/12/23 04:24	
EPA 903.1	Radium-226	0.928 ± 0.517 (0.672)	pCi/L		11/01/23 12:13	
EPA 904.0	Radium-228	C:NA T:83% 0.621 ± 0.362 (0.657)	pCi/L		10/24/23 12:26	
		C:80% T:83%				
Total Radium Calculation	Total Radium	1.55 ± 0.879 (1.33)	pCi/L		11/02/23 11:28	
SM 2320B	Alkalinity, Total as CaCO3	246	mg/L	10.0	10/11/23 19:43	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	246	mg/L	10.0	10/11/23 19:43	
SM 2540C	Total Dissolved Solids	527	mg/L	10.0	10/16/23 11:54	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/20/23 16:52	H3
SM 5310C	Dissolved Organic Carbon	3.1	mg/L	1.0	10/14/23 11:16	
50356016005	MW-2D					
EPA 9056	Chloride	74.5	mg/L	2.5	10/19/23 20:39	
EPA 9056	Fluoride	0.31	mg/L	0.10	10/19/23 20:22	
EPA 9056	Sulfate	65.9	mg/L	2.5	10/19/23 20:39	
EPA 6010	Boron	138	ug/L	100	10/25/23 11:48	
EPA 6010	Calcium	67500	ug/L	1000	10/25/23 11:48	
EPA 6010	Iron	889	ug/L	100	10/25/23 11:48	
EPA 6010	Lithium	34.7	ug/L	20.0	10/25/23 11:48	
EPA 6010	Magnesium	16300	ug/L	1000	10/25/23 11:48	
EPA 6010	Manganese	193	ug/L	10.0	10/25/23 11:48	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356016005	MW-2D					
EPA 6010	Molybdenum	47.8	ug/L	10.0	10/25/23 11:48	
EPA 6010	Potassium	7480	ug/L	1000	10/25/23 11:48	
EPA 6010	Silica	10900	ug/L	450	10/25/23 11:48	N2
EPA 6010	Sodium	72300	ug/L	1000	10/25/23 11:48	
EPA 6010	Manganese, Dissolved	185	ug/L	10.0	10/20/23 16:44	
EPA 6010	Molybdenum, Dissolved	48.8	ug/L	10.0	10/20/23 16:44	
EPA 6020	Arsenic	4.7	ug/L	1.0	10/12/23 04:27	
EPA 6020	Barium	61.8	ug/L	1.0	10/12/23 04:27	
EPA 903.1	Radium-226	0.709 ± 0.366 (0.307)	pCi/L		11/01/23 12:13	
EPA 904.0	Radium-228	0.992 ± 0.436 (0.698)	pCi/L		10/24/23 12:26	
		C:NA T:78%				
		C:78% T:78%				
Total Radium Calculation	Total Radium	1.70 ± 0.802 (1.01)	pCi/L		11/02/23 11:28	
SM 2320B	Alkalinity, Total as CaCO3	226	mg/L	10.0	10/11/23 19:43	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	226	mg/L	10.0	10/11/23 19:43	
SM 2540C	Total Dissolved Solids	440	mg/L	10.0	10/16/23 11:54	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/24/23 11:51	H3
EPA 365.1	Phosphate as P04	0.16	mg/L	0.15	10/20/23 12:08	
SM 5310C	Dissolved Organic Carbon	3.0	mg/L	1.0	10/14/23 11:26	
50356016006	MW-3D					
EPA 9056	Chloride	64.1	mg/L	2.5	10/19/23 22:05	
EPA 9056	Fluoride	0.21	mg/L	0.10	10/19/23 21:48	
EPA 9056	Sulfate	42.6	mg/L	2.5	10/19/23 22:05	
EPA 6010	Boron	140	ug/L	100	10/25/23 11:50	
EPA 6010	Calcium	94000	ug/L	1000	10/25/23 11:50	
EPA 6010	Iron	1590	ug/L	100	10/25/23 11:50	
EPA 6010	Magnesium	29300	ug/L	1000	10/25/23 11:50	
EPA 6010	Manganese	232	ug/L	10.0	10/25/23 11:50	
EPA 6010	Molybdenum	14.1	ug/L	10.0	10/25/23 11:50	
EPA 6010	Potassium	4980	ug/L	1000	10/25/23 11:50	
EPA 6010	Silica	12400	ug/L	450	10/25/23 11:50	N2
EPA 6010	Sodium	43000	ug/L	1000	10/25/23 11:50	
EPA 6010	Manganese, Dissolved	221	ug/L	10.0	10/20/23 16:46	
EPA 6010	Molybdenum, Dissolved	15.3	ug/L	10.0	10/20/23 16:46	
EPA 6020	Arsenic	5.9	ug/L	1.0	10/12/23 04:37	
EPA 6020	Barium	83.7	ug/L	1.0	10/12/23 04:37	
EPA 903.1	Radium-226	0.360 ± 0.452 (0.752)	pCi/L		11/01/23 12:13	
		C:NA T:82%				

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356016

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356016006	MW-3D					
EPA 904.0	Radium-228	0.833 ± 0.398 (0.671) C:82% T:82%	pCi/L		10/24/23 12:27	
Total Radium Calculation	Total Radium	1.19 ± 0.850 (1.42)	pCi/L		11/02/23 11:28	
SM 2320B	Alkalinity, Total as CaCO3	302	mg/L	10.0	10/11/23 19:43	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	302	mg/L	10.0	10/11/23 19:43	
SM 2540C	Total Dissolved Solids	452	mg/L	10.0	10/16/23 11:54	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	10/24/23 11:52	H3
HACH 8146	Iron, Ferrous	0.54	mg/L	0.20	10/18/23 14:29	H3,N2
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	10/17/23 22:45	
SM 5310C	Dissolved Organic Carbon	3.1	mg/L	1.0	10/16/23 23:45	
50356016007	DUP-4					
EPA 9056	Chloride	73.2	mg/L	2.5	10/19/23 22:56	
EPA 9056	Fluoride	0.16	mg/L	0.10	10/19/23 22:39	
EPA 9056	Sulfate	69.1	mg/L	2.5	10/19/23 22:56	
EPA 6010	Boron	536	ug/L	100	10/25/23 11:51	
EPA 6010	Calcium	121000	ug/L	1000	10/25/23 11:51	
EPA 6010	Lithium	33.8	ug/L	20.0	10/25/23 11:51	
EPA 6010	Magnesium	26600	ug/L	1000	10/25/23 11:51	
EPA 6010	Manganese	35.1	ug/L	10.0	10/25/23 11:51	
EPA 6010	Potassium	5430	ug/L	1000	10/25/23 11:51	
EPA 6010	Silica	13800	ug/L	450	10/25/23 11:51	N2
EPA 6010	Sodium	67700	ug/L	1000	10/25/23 11:51	
EPA 6020	Arsenic	5.9	ug/L	1.0	10/12/23 04:40	
EPA 6020	Barium	109	ug/L	1.0	10/12/23 04:40	
EPA 6020	Selenium	4.5	ug/L	1.0	10/12/23 04:40	
EPA 903.1	Radium-226	0.126 ± 0.377 (0.699) C:NA T:79%	pCi/L		11/01/23 12:13	
EPA 904.0	Radium-228	0.678 ± 0.387 (0.704) C:82% T:79%	pCi/L		10/24/23 12:27	
Total Radium Calculation	Total Radium	0.804 ± 0.764 (1.40)	pCi/L		11/02/23 11:28	
SM 2320B	Alkalinity, Total as CaCO3	392	mg/L	10.0	10/11/23 19:43	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	392	mg/L	10.0	10/11/23 19:43	
SM 2540C	Total Dissolved Solids	628	mg/L	10.0	10/16/23 11:54	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/24/23 11:52	H3
EPA 353.2	Nitrogen, Nitrate	0.53	mg/L	0.10	10/11/23 22:44	
EPA 365.1	Phosphate as P04	0.30	mg/L	0.15	10/20/23 12:09	
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	10/17/23 22:55	
SM 5310C	Dissolved Organic Carbon	5.2	mg/L	1.0	10/16/23 23:55	

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-6I **Lab ID: 50356016001** Collected: 10/10/23 12:50 Received: 10/10/23 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	73.6	mg/L	2.5	0.67	10		10/19/23 16:39	16887-00-6	
Fluoride	0.29	mg/L	0.10	0.017	1		10/19/23 16:21	16984-48-8	
Sulfate	172	mg/L	2.5	1.9	10		10/19/23 16:39	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/13/23 08:12	10/25/23 11:42	7429-90-5	
Boron	2020	ug/L	100	11.4	1	10/13/23 08:12	10/25/23 11:42	7440-42-8	
Calcium	117000	ug/L	1000	56.7	1	10/13/23 08:12	10/25/23 11:42	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/13/23 08:12	10/25/23 11:42	7439-89-6	
Lithium	100	ug/L	20.0	5.1	1	10/13/23 08:12	10/25/23 11:42	7439-93-2	
Magnesium	24500	ug/L	1000	32.8	1	10/13/23 08:12	10/25/23 11:42	7439-95-4	
Manganese	78.4	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:42	7439-96-5	
Molybdenum	160	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:42	7439-98-7	
Potassium	14100	ug/L	1000	120	1	10/13/23 08:12	10/25/23 11:42	7440-09-7	
Silica	10900	ug/L	450		1	10/13/23 08:12	10/25/23 11:42	7631-86-9	N2
Sodium	81300	ug/L	1000	48.2	1	10/13/23 08:12	10/25/23 11:42	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	70.8	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:38	7439-96-5	
Molybdenum, Dissolved	165	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:38	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 04:07	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 04:07	7440-38-2	
Barium	76.4	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 04:07	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 04:07	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 04:07	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	302	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Bicarbonate (CaCO3)	302	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 19:43		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	677	mg/L	10.0	10.0	1		10/16/23 11:53		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		10/20/23 16:49		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-6I Lab ID: 50356016001 Collected: 10/10/23 12:50 Received: 10/10/23 18:00 Matrix: Water									
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:28	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/11/23 23:06	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:06	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 12:03		
5310C TOC									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Total Organic Carbon	1.6	mg/L	1.0	0.24	1		10/14/23 05:59	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	2.2	mg/L	1.0	0.24	1		10/14/23 10:45		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-6D		Lab ID: 50356016002		Collected: 10/10/23 10:35		Received: 10/10/23 18:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	81.7	mg/L	2.5	0.67	10		10/19/23 17:30	16887-00-6	
Fluoride	0.17	mg/L	0.10	0.017	1		10/19/23 17:13	16984-48-8	
Sulfate	76.1	mg/L	2.5	1.9	10		10/19/23 17:30	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/13/23 08:12	10/25/23 11:44	7429-90-5	
Boron	1840	ug/L	100	11.4	1	10/13/23 08:12	10/25/23 11:44	7440-42-8	
Calcium	76800	ug/L	1000	56.7	1	10/13/23 08:12	10/25/23 11:44	7440-70-2	
Iron	113	ug/L	100	18.1	1	10/13/23 08:12	10/25/23 11:44	7439-89-6	
Lithium	71.1	ug/L	20.0	5.1	1	10/13/23 08:12	10/25/23 11:44	7439-93-2	
Magnesium	14500	ug/L	1000	32.8	1	10/13/23 08:12	10/25/23 11:44	7439-95-4	
Manganese	332	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:44	7439-96-5	
Molybdenum	203	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:44	7439-98-7	
Potassium	5730	ug/L	1000	120	1	10/13/23 08:12	10/25/23 11:44	7440-09-7	
Silica	11600	ug/L	450		1	10/13/23 08:12	10/25/23 11:44	7631-86-9	N2
Sodium	76600	ug/L	1000	48.2	1	10/13/23 08:12	10/25/23 11:44	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	298	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:40	7439-96-5	
Molybdenum, Dissolved	204	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:40	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 04:17	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 04:17	7440-38-2	
Barium	62.0	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 04:17	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 04:17	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 04:17	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	223	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Bicarbonate (CaCO3)	223	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 19:43		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	497	mg/L	10.0	10.0	1		10/16/23 11:53		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/20/23 16:50		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-6D		Lab ID: 50356016002		Collected: 10/10/23 10:35	Received: 10/10/23 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:27	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/11/23 23:56	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:56	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 12:05			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.1	mg/L	1.0	0.24	1		10/14/23 20:49	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/14/23 10:55			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356016

Sample: MW-2S **Lab ID: 50356016003** Collected: 10/10/23 10:45 Received: 10/10/23 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	75.8	mg/L	2.5	0.67	10		10/19/23 18:56	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.017	1		10/19/23 18:39	16984-48-8	
Sulfate	70.5	mg/L	2.5	1.9	10		10/19/23 18:56	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/13/23 08:12	10/25/23 11:45	7429-90-5	
Boron	550	ug/L	100	11.4	1	10/13/23 08:12	10/25/23 11:45	7440-42-8	
Calcium	124000	ug/L	1000	56.7	1	10/13/23 08:12	10/25/23 11:45	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/13/23 08:12	10/25/23 11:45	7439-89-6	
Lithium	35.7	ug/L	20.0	5.1	1	10/13/23 08:12	10/25/23 11:45	7439-93-2	
Magnesium	27000	ug/L	1000	32.8	1	10/13/23 08:12	10/25/23 11:45	7439-95-4	
Manganese	33.4	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:45	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:45	7439-98-7	
Potassium	5570	ug/L	1000	120	1	10/13/23 08:12	10/25/23 11:45	7440-09-7	
Silica	14100	ug/L	450		1	10/13/23 08:12	10/25/23 11:45	7631-86-9	N2
Sodium	69400	ug/L	1000	48.2	1	10/13/23 08:12	10/25/23 11:45	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:41	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:41	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 04:21	7440-36-0	
Arsenic	5.9	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 04:21	7440-38-2	
Barium	107	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 04:21	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 04:21	7440-48-4	
Selenium	4.5	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 04:21	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	391	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Bicarbonate (CaCO3)	391	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 19:43		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	605	mg/L	10.0	10.0	1		10/16/23 11:54		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		10/20/23 16:50		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-2S		Lab ID: 50356016003		Collected: 10/10/23 10:45	Received: 10/10/23 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:28	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.54	mg/L	0.10	0.011	1		10/11/23 22:51	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 22:51	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.23	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 12:06		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.2	mg/L	1.0	0.24	1		10/14/23 21:15	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.9	mg/L	1.0	0.24	1		10/14/23 11:05		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-2I		Lab ID: 50356016004		Collected: 10/10/23 13:50		Received: 10/10/23 18:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	96.5	mg/L	2.5	0.67	10		10/19/23 19:47	16887-00-6	
Fluoride	0.27	mg/L	0.10	0.017	1		10/19/23 19:30	16984-48-8	
Sulfate	88.5	mg/L	2.5	1.9	10		10/19/23 19:47	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/13/23 08:12	10/25/23 11:47	7429-90-5	
Boron	204	ug/L	100	11.4	1	10/13/23 08:12	10/25/23 11:47	7440-42-8	
Calcium	74200	ug/L	1000	56.7	1	10/13/23 08:12	10/25/23 11:47	7440-70-2	
Iron	124	ug/L	100	18.1	1	10/13/23 08:12	10/25/23 11:47	7439-89-6	
Lithium	32.9	ug/L	20.0	5.1	1	10/13/23 08:12	10/25/23 11:47	7439-93-2	
Magnesium	22100	ug/L	1000	32.8	1	10/13/23 08:12	10/25/23 11:47	7439-95-4	
Manganese	174	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:47	7439-96-5	
Molybdenum	76.7	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:47	7439-98-7	
Potassium	7940	ug/L	1000	120	1	10/13/23 08:12	10/25/23 11:47	7440-09-7	
Silica	11700	ug/L	450		1	10/13/23 08:12	10/25/23 11:47	7631-86-9	N2
Sodium	85100	ug/L	1000	48.2	1	10/13/23 08:12	10/25/23 11:47	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	120	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:43	7439-96-5	
Molybdenum, Dissolved	78.6	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:43	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 04:24	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 04:24	7440-38-2	
Barium	75.1	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 04:24	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 04:24	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 04:24	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	246	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Bicarbonate (CaCO3)	246	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 19:43		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	527	mg/L	10.0	10.0	1		10/16/23 11:54		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/20/23 16:52		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-2I		Lab ID: 50356016004		Collected: 10/10/23 13:50	Received: 10/10/23 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:28	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/11/23 23:12	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:12	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 12:07			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	4.0	0.94	4		10/16/23 13:13	7440-44-0	D3	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.1	mg/L	1.0	0.24	1		10/14/23 11:16			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356016

Sample: MW-2D		Lab ID: 50356016005		Collected: 10/10/23 12:30		Received: 10/10/23 18:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	74.5	mg/L	2.5	0.67	10		10/19/23 20:39	16887-00-6	
Fluoride	0.31	mg/L	0.10	0.017	1		10/19/23 20:22	16984-48-8	
Sulfate	65.9	mg/L	2.5	1.9	10		10/19/23 20:39	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/13/23 08:12	10/25/23 11:48	7429-90-5	
Boron	138	ug/L	100	11.4	1	10/13/23 08:12	10/25/23 11:48	7440-42-8	
Calcium	67500	ug/L	1000	56.7	1	10/13/23 08:12	10/25/23 11:48	7440-70-2	
Iron	889	ug/L	100	18.1	1	10/13/23 08:12	10/25/23 11:48	7439-89-6	
Lithium	34.7	ug/L	20.0	5.1	1	10/13/23 08:12	10/25/23 11:48	7439-93-2	
Magnesium	16300	ug/L	1000	32.8	1	10/13/23 08:12	10/25/23 11:48	7439-95-4	
Manganese	193	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:48	7439-96-5	
Molybdenum	47.8	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:48	7439-98-7	
Potassium	7480	ug/L	1000	120	1	10/13/23 08:12	10/25/23 11:48	7440-09-7	
Silica	10900	ug/L	450		1	10/13/23 08:12	10/25/23 11:48	7631-86-9	N2
Sodium	72300	ug/L	1000	48.2	1	10/13/23 08:12	10/25/23 11:48	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	185	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:44	7439-96-5	
Molybdenum, Dissolved	48.8	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:44	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 04:27	7440-36-0	
Arsenic	4.7	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 04:27	7440-38-2	
Barium	61.8	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 04:27	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 04:27	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 04:27	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	226	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Bicarbonate (CaCO3)	226	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 19:43		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	440	mg/L	10.0	10.0	1		10/16/23 11:54		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/24/23 11:51		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-2D		Lab ID: 50356016005		Collected: 10/10/23 12:30	Received: 10/10/23 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:28	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/11/23 23:04	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:04	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.16	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 12:08			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	4.0	0.94	4		10/16/23 13:32	7440-44-0	D3	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.0	mg/L	1.0	0.24	1		10/14/23 11:26			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-3D		Lab ID: 50356016006		Collected: 10/10/23 16:20		Received: 10/10/23 18:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	64.1	mg/L	2.5	0.67	10		10/19/23 22:05	16887-00-6	
Fluoride	0.21	mg/L	0.10	0.017	1		10/19/23 21:48	16984-48-8	
Sulfate	42.6	mg/L	2.5	1.9	10		10/19/23 22:05	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/13/23 08:12	10/25/23 11:50	7429-90-5	
Boron	140	ug/L	100	11.4	1	10/13/23 08:12	10/25/23 11:50	7440-42-8	
Calcium	94000	ug/L	1000	56.7	1	10/13/23 08:12	10/25/23 11:50	7440-70-2	
Iron	1590	ug/L	100	18.1	1	10/13/23 08:12	10/25/23 11:50	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/13/23 08:12	10/25/23 11:50	7439-93-2	
Magnesium	29300	ug/L	1000	32.8	1	10/13/23 08:12	10/25/23 11:50	7439-95-4	
Manganese	232	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:50	7439-96-5	
Molybdenum	14.1	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:50	7439-98-7	
Potassium	4980	ug/L	1000	120	1	10/13/23 08:12	10/25/23 11:50	7440-09-7	
Silica	12400	ug/L	450		1	10/13/23 08:12	10/25/23 11:50	7631-86-9	N2
Sodium	43000	ug/L	1000	48.2	1	10/13/23 08:12	10/25/23 11:50	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	221	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:46	7439-96-5	
Molybdenum, Dissolved	15.3	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:46	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 04:37	7440-36-0	
Arsenic	5.9	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 04:37	7440-38-2	
Barium	83.7	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 04:37	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 04:37	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 04:37	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	302	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Bicarbonate (CaCO3)	302	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 19:43		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	452	mg/L	10.0	10.0	1		10/16/23 11:54		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		10/24/23 11:52		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-3D		Lab ID: 50356016006		Collected: 10/10/23 16:20	Received: 10/10/23 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	0.54	mg/L	0.20	0.035	1		10/18/23 14:29	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/11/23 23:16	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:16	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 12:08		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	1.7	mg/L	1.0	0.24	1		10/17/23 22:45	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	3.1	mg/L	1.0	0.24	1		10/16/23 23:45		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: DUP-4 **Lab ID: 50356016007** Collected: 10/10/23 08:00 Received: 10/10/23 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	73.2	mg/L	2.5	0.67	10		10/19/23 22:56	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.017	1		10/19/23 22:39	16984-48-8	
Sulfate	69.1	mg/L	2.5	1.9	10		10/19/23 22:56	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/13/23 08:12	10/25/23 11:51	7429-90-5	
Boron	536	ug/L	100	11.4	1	10/13/23 08:12	10/25/23 11:51	7440-42-8	
Calcium	121000	ug/L	1000	56.7	1	10/13/23 08:12	10/25/23 11:51	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/13/23 08:12	10/25/23 11:51	7439-89-6	
Lithium	33.8	ug/L	20.0	5.1	1	10/13/23 08:12	10/25/23 11:51	7439-93-2	
Magnesium	26600	ug/L	1000	32.8	1	10/13/23 08:12	10/25/23 11:51	7439-95-4	
Manganese	35.1	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:51	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/13/23 08:12	10/25/23 11:51	7439-98-7	
Potassium	5430	ug/L	1000	120	1	10/13/23 08:12	10/25/23 11:51	7440-09-7	
Silica	13800	ug/L	450		1	10/13/23 08:12	10/25/23 11:51	7631-86-9	N2
Sodium	67700	ug/L	1000	48.2	1	10/13/23 08:12	10/25/23 11:51	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:47	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/12/23 15:56	10/20/23 16:47	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	10/11/23 15:14	10/12/23 04:40	7440-36-0	
Arsenic	5.9	ug/L	1.0	0.064	1	10/11/23 15:14	10/12/23 04:40	7440-38-2	
Barium	109	ug/L	1.0	0.067	1	10/11/23 15:14	10/12/23 04:40	7440-39-3	
Cobalt	ND	ug/L	1.0	0.024	1	10/11/23 15:14	10/12/23 04:40	7440-48-4	
Selenium	4.5	ug/L	1.0	0.23	1	10/11/23 15:14	10/12/23 04:40	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	392	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Bicarbonate (CaCO3)	392	mg/L	10.0	10.0	1		10/11/23 19:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/11/23 19:43		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	628	mg/L	10.0	10.0	1		10/16/23 11:54		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/24/23 11:52		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: DUP-4		Lab ID: 50356016007		Collected: 10/10/23 08:00	Received: 10/10/23 18:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 17:12	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:27	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.53	mg/L	0.10	0.011	1		10/11/23 22:44	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 22:44	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.30	mg/L	0.15	0.15	1	10/18/23 11:30	10/20/23 12:09		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.6	mg/L	1.0	0.24	1		10/17/23 22:55	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	5.2	mg/L	1.0	0.24	1		10/16/23 23:55		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	757748	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007		

METHOD BLANK: 3472649 Matrix: Water
 Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/19/23 11:21	
Fluoride	mg/L	ND	0.10	0.017	10/19/23 11:21	
Sulfate	mg/L	ND	0.25	0.19	10/19/23 11:21	

LABORATORY CONTROL SAMPLE: 3472650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	91	80-120	
Fluoride	mg/L	1	0.98	98	80-120	
Sulfate	mg/L	5	4.6	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472651 3472652

Parameter	Units	50356176004		3472651		3472652		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	252	250	250	469	468	87	87	80-120	0	15		
Fluoride	mg/L	ND	1	1	1.1	1.1	96	97	80-120	1	15		
Sulfate	mg/L	102	50	50	146	146	88	88	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.

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356016

QC Batch: 756858 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

METHOD BLANK: 3468789 Matrix: Water
Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/25/23 11:41	
Boron	ug/L	ND	100	11.4	10/25/23 11:41	
Calcium	ug/L	ND	1000	56.7	10/25/23 11:41	
Iron	ug/L	ND	100	18.1	10/25/23 11:41	
Lithium	ug/L	ND	20.0	5.1	10/25/23 11:41	
Magnesium	ug/L	ND	1000	32.8	10/25/23 11:41	
Manganese	ug/L	ND	10.0	1.1	10/25/23 11:41	
Molybdenum	ug/L	ND	10.0	1.1	10/25/23 11:41	
Potassium	ug/L	ND	1000	120	10/25/23 11:41	
Silica	ug/L	ND	450		10/25/23 11:41	N2
Sodium	ug/L	ND	1000	48.2	10/25/23 11:41	

LABORATORY CONTROL SAMPLE: 3468790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	80-120	
Boron	ug/L	1000	971	97	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Iron	ug/L	10000	9590	96	80-120	
Lithium	ug/L	1000	1000	100	80-120	
Magnesium	ug/L	10000	9820	98	80-120	
Manganese	ug/L	1000	1040	104	80-120	
Molybdenum	ug/L	1000	990	99	80-120	
Potassium	ug/L	10000	9850	98	80-120	
Silica	ug/L	10700	10600	99	80-120	N2
Sodium	ug/L	10000	9900	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468791 3468792

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50356116005 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	<200	10000	10000	10200	10400	101	103	75-125	1	20	
Boron	ug/L	<100	1000	1000	1010	1020	100	101	75-125	1	20	
Calcium	ug/L	63400	10000	10000	69600	69900	62	65	75-125	0	20	P6
Iron	ug/L	107	10000	10000	9840	9930	97	98	75-125	1	20	
Lithium	ug/L	<20.0	1000	1000	1020	1020	102	102	75-125	0	20	
Magnesium	ug/L	19300	10000	10000	27900	28100	86	88	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468791 3468792											
Parameter	Units	50356116005 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Manganese	ug/L	<20.0	1000	1000	1050	1060	104	106	75-125	1	20
Molybdenum	ug/L	<10.0	1000	1000	1010	1020	101	101	75-125	0	20
Potassium	ug/L	1080	10000	10000	11200	11200	101	101	75-125	0	20
Silica	ug/L	10300	10700	10700	20600	20800	97	98	75-125	1	20 N2
Sodium	ug/L	3720	10000	10000	13500	13600	98	99	75-125	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch: 756874 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

METHOD BLANK: 3468920 Matrix: Water
 Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/20/23 16:03	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/20/23 16:03	

LABORATORY CONTROL SAMPLE: 3468921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1020	102	80-120	
Molybdenum, Dissolved	ug/L	1000	992	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468922 3468923

Parameter	Units	50355871001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	650	1000	1000	1610	1640	96	99	75-125	2	20	
Molybdenum, Dissolved	ug/L	41.5	1000	1000	1050	1060	100	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356016

QC Batch: 756678 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

METHOD BLANK: 3467765 Matrix: Water
Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	10/12/23 01:49	
Arsenic	ug/L	ND	1.0	0.064	10/12/23 01:49	
Barium	ug/L	ND	1.0	0.067	10/12/23 01:49	
Cobalt	ug/L	ND	1.0	0.024	10/12/23 01:49	
Selenium	ug/L	ND	1.0	0.23	10/12/23 01:49	

LABORATORY CONTROL SAMPLE: 3467766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.0	100	80-120	
Arsenic	ug/L	40	39.1	98	80-120	
Barium	ug/L	40	39.1	98	80-120	
Cobalt	ug/L	40	40.4	101	80-120	
Selenium	ug/L	40	39.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467767 3467768

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355989002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	42.7	42.0	107	105	75-125	2	20
Arsenic	ug/L	ND	40	40	39.5	40.2	98	100	75-125	2	20
Barium	ug/L	50.9	40	40	94.1	93.5	108	106	75-125	1	20
Cobalt	ug/L	ND	40	40	37.4	37.7	93	94	75-125	1	20
Selenium	ug/L	ND	40	40	38.7	39.0	97	97	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	756853	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

METHOD BLANK: 3468740 Matrix: Water

Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/11/23 19:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/11/23 19:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/11/23 19:43	

LABORATORY CONTROL SAMPLE: 3468741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.3	99	90-110	

SAMPLE DUPLICATE: 3468742

Parameter	Units	50356016001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	302	309	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	302	309	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	757503	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007		

METHOD BLANK:	3471896	Matrix:	Water
Associated Lab Samples:	50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/16/23 11:52	

LABORATORY CONTROL SAMPLE: 3471897						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 3471898						
Parameter	Units	50356001001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1230	1230	0	10	

SAMPLE DUPLICATE: 3471899						
Parameter	Units	50356058001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	11600	12800	10	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch: 758356

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004

SAMPLE DUPLICATE: 3475506

Parameter	Units	50355885001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	2	H3

SAMPLE DUPLICATE: 3475507

Parameter	Units	50356016004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch: 758818

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356016005, 50356016006, 50356016007

SAMPLE DUPLICATE: 3477531

Parameter	Units	50355871005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	1	2	H3

SAMPLE DUPLICATE: 3477532

Parameter	Units	50356097003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.6	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	756735	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007		

METHOD BLANK:	3467948	Matrix:	Water
Associated Lab Samples:	50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/11/23 17:12	

LABORATORY CONTROL SAMPLE: 3467949						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467950												3467951	
Parameter	Units	50355989001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Sulfide	mg/L	ND	0.5	0.5	0.48	0.51	97	101	90-110	5	20		

MATRIX SPIKE SAMPLE: 3467952											
Parameter	Units	50356001001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Sulfide	mg/L	ND	0.5	0.46	92	90-110					

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch: 757930 Analysis Method: HACH 8146
 QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

METHOD BLANK: 3473375 Matrix: Water
 Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 14:27	H3,N2

LABORATORY CONTROL SAMPLE: 3473376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	100	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473377 3473378

Parameter	Units	50356191006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	ND	1	1	0.99	1.0	99	101	90-110	3	20	H3,N2

MATRIX SPIKE SAMPLE: 3473379

Parameter	Units	50356303001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	101	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	756875	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007		

METHOD BLANK: 3468930 Matrix: Water
 Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/11/23 22:40	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/11/23 22:40	

LABORATORY CONTROL SAMPLE: 3468931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	100	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 3468932

Parameter	Units	50356016007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.53	1	1.6	108	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	98	90-110	

MATRIX SPIKE SAMPLE: 3468933

Parameter	Units	50356191006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	7.9	5	12.6	94	90-110	
Nitrogen, Nitrite	mg/L	ND	5	5.0	99	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356016

QC Batch: 757908 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

METHOD BLANK: 3473303 Matrix: Water
 Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/20/23 12:01	

LABORATORY CONTROL SAMPLE: 3473304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473305 3473306

Parameter	Units	50356016001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.6	1.6				0		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch: 757257	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Total Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356016001

METHOD BLANK: 3470587 Matrix: Water

Associated Lab Samples: 50356016001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/14/23 00:10	

LABORATORY CONTROL SAMPLE: 3470588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470589 3470590

Parameter	Units	50355754007		3470589		3470590		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Total Organic Carbon	mg/L	1.8	10	10	10	11.2	11.4	95	96	80-120	1	20

MATRIX SPIKE SAMPLE: 3470591

Parameter	Units	50355754011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	13.3	94	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	757266	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356016002, 50356016003, 50356016004, 50356016005

METHOD BLANK: 3470652 Matrix: Water
 Associated Lab Samples: 50356016002, 50356016003, 50356016004, 50356016005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/14/23 18:56	

LABORATORY CONTROL SAMPLE: 3470653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470654 3470655

Parameter	Units	50355592009		3470655		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/L	4.4	10	10	14.2	14.5	98	101	80-120	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch: 757749	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Total Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356016006, 50356016007

METHOD BLANK: 3472653 Matrix: Water

Associated Lab Samples: 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/17/23 20:39	

LABORATORY CONTROL SAMPLE: 3472654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472655 3472656

Parameter	Units	50355989001		3472656		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/L	1.7	10	10.5	10.4	88	87	80-120	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	757259	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356016001, 50356016002, 50356016003, 50356016004, 50356016005		

METHOD BLANK: 3470598 Matrix: Water
 Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/14/23 06:19	

LABORATORY CONTROL SAMPLE: 3470599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470600 3470601

Parameter	Units	50355592009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	4.5	10	10	14.8	14.8	103	103	80-120	0	20	

MATRIX SPIKE SAMPLE: 3470602

Parameter	Units	50355592010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	3.4	10	14.0	106	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	757541	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356016006, 50356016007

METHOD BLANK: 3471990 Matrix: Water

Associated Lab Samples: 50356016006, 50356016007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/16/23 18:56	

LABORATORY CONTROL SAMPLE: 3471991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471992 3471993

Parameter	Units	50355430002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.4	10	10	10.7	10.7	93	93	80-120	0	20	

MATRIX SPIKE SAMPLE: 3471994

Parameter	Units	50355430003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	10	10.7	96	80-120	

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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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-6I **Lab ID: 50356016001** Collected: 10/10/23 12:50 Received: 10/10/23 18:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.03 ± 0.505 (0.562) C:NA T:76%	pCi/L	11/01/23 12:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.682 ± 0.463 (0.903) C:83% T:76%	pCi/L	10/24/23 12:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.71 ± 0.968 (1.47)	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-6D **Lab ID: 50356016002** Collected: 10/10/23 10:35 Received: 10/10/23 18:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.128 ± 0.346 (0.641) C:NA T:83%	pCi/L	11/01/23 12:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.749 ± 0.466 (0.894) C:82% T:83%	pCi/L	10/24/23 12:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.877 ± 0.812 (1.54)	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-2S **Lab ID: 50356016003** Collected: 10/10/23 10:45 Received: 10/10/23 18:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.279 ± 0.260 (0.342) C:NA T:75%	pCi/L	11/01/23 12:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.472 ± 0.405 (0.818) C:80% T:75%	pCi/L	10/24/23 12:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.751 ± 0.665 (1.16)	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-2I **Lab ID: 50356016004** Collected: 10/10/23 13:50 Received: 10/10/23 18:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.928 ± 0.517 (0.672) C:NA T:83%	pCi/L	11/01/23 12:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.621 ± 0.362 (0.657) C:80% T:83%	pCi/L	10/24/23 12:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.55 ± 0.879 (1.33)	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-2D Lab ID: 50356016005 Collected: 10/10/23 12:30 Received: 10/10/23 18:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.709 ± 0.366 (0.307) C:NA T:78%	pCi/L	11/01/23 12:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.992 ± 0.436 (0.698) C:78% T:78%	pCi/L	10/24/23 12:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.70 ± 0.802 (1.01)	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: MW-3D **Lab ID: 50356016006** Collected: 10/10/23 16:20 Received: 10/10/23 18:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.360 ± 0.452 (0.752) C:NA T:82%	pCi/L	11/01/23 12:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.833 ± 0.398 (0.671) C:82% T:82%	pCi/L	10/24/23 12:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.19 ± 0.850 (1.42)	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Sample: DUP-4 **Lab ID: 50356016007** Collected: 10/10/23 08:00 Received: 10/10/23 18:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.126 ± 0.377 (0.699) C:NA T:79%	pCi/L	11/01/23 12:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.678 ± 0.387 (0.704) C:82% T:79%	pCi/L	10/24/23 12:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.804 ± 0.764 (1.40)	pCi/L	11/02/23 11:28	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	622684	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: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

METHOD BLANK:	3035258	Matrix:	Water
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Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.470 ± 0.337 (0.642) C:73% T:84%	pCi/L	10/24/23 12:21	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

QC Batch:	622683	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: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

METHOD BLANK: 3035256 Matrix: Water

Associated Lab Samples: 50356016001, 50356016002, 50356016003, 50356016004, 50356016005, 50356016006, 50356016007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.185 (0.376) C:NA T:84%	pCi/L	11/01/23 12:01	

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

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QUALIFIERS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

H3 Sample was received or analysis requested beyond the recognized method holding time.

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356016001	MW-6I	EPA 9056	757748		
50356016002	MW-6D	EPA 9056	757748		
50356016003	MW-2S	EPA 9056	757748		
50356016004	MW-2I	EPA 9056	757748		
50356016005	MW-2D	EPA 9056	757748		
50356016006	MW-3D	EPA 9056	757748		
50356016007	DUP-4	EPA 9056	757748		
50356016001	MW-6I	EPA 3010	756858	EPA 6010	759024
50356016002	MW-6D	EPA 3010	756858	EPA 6010	759024
50356016003	MW-2S	EPA 3010	756858	EPA 6010	759024
50356016004	MW-2I	EPA 3010	756858	EPA 6010	759024
50356016005	MW-2D	EPA 3010	756858	EPA 6010	759024
50356016006	MW-3D	EPA 3010	756858	EPA 6010	759024
50356016007	DUP-4	EPA 3010	756858	EPA 6010	759024
50356016001	MW-6I	EPA 3010	756874	EPA 6010	758446
50356016002	MW-6D	EPA 3010	756874	EPA 6010	758446
50356016003	MW-2S	EPA 3010	756874	EPA 6010	758446
50356016004	MW-2I	EPA 3010	756874	EPA 6010	758446
50356016005	MW-2D	EPA 3010	756874	EPA 6010	758446
50356016006	MW-3D	EPA 3010	756874	EPA 6010	758446
50356016007	DUP-4	EPA 3010	756874	EPA 6010	758446
50356016001	MW-6I	EPA 200.2	756678	EPA 6020	756885
50356016002	MW-6D	EPA 200.2	756678	EPA 6020	756885
50356016003	MW-2S	EPA 200.2	756678	EPA 6020	756885
50356016004	MW-2I	EPA 200.2	756678	EPA 6020	756885
50356016005	MW-2D	EPA 200.2	756678	EPA 6020	756885
50356016006	MW-3D	EPA 200.2	756678	EPA 6020	756885
50356016007	DUP-4	EPA 200.2	756678	EPA 6020	756885
50356016001	MW-6I	EPA 903.1	622683		
50356016002	MW-6D	EPA 903.1	622683		
50356016003	MW-2S	EPA 903.1	622683		
50356016004	MW-2I	EPA 903.1	622683		
50356016005	MW-2D	EPA 903.1	622683		
50356016006	MW-3D	EPA 903.1	622683		
50356016007	DUP-4	EPA 903.1	622683		
50356016001	MW-6I	EPA 904.0	622684		
50356016002	MW-6D	EPA 904.0	622684		
50356016003	MW-2S	EPA 904.0	622684		
50356016004	MW-2I	EPA 904.0	622684		
50356016005	MW-2D	EPA 904.0	622684		
50356016006	MW-3D	EPA 904.0	622684		
50356016007	DUP-4	EPA 904.0	622684		
50356016001	MW-6I	Total Radium Calculation	626736		
50356016002	MW-6D	Total Radium Calculation	626736		
50356016003	MW-2S	Total Radium Calculation	626736		
50356016004	MW-2I	Total Radium Calculation	626736		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356016005	MW-2D	Total Radium Calculation	626736		
50356016006	MW-3D	Total Radium Calculation	626736		
50356016007	DUP-4	Total Radium Calculation	626736		
50356016001	MW-6I	SM 2320B	756853		
50356016002	MW-6D	SM 2320B	756853		
50356016003	MW-2S	SM 2320B	756853		
50356016004	MW-2I	SM 2320B	756853		
50356016005	MW-2D	SM 2320B	756853		
50356016006	MW-3D	SM 2320B	756853		
50356016007	DUP-4	SM 2320B	756853		
50356016001	MW-6I	SM 2540C	757503		
50356016002	MW-6D	SM 2540C	757503		
50356016003	MW-2S	SM 2540C	757503		
50356016004	MW-2I	SM 2540C	757503		
50356016005	MW-2D	SM 2540C	757503		
50356016006	MW-3D	SM 2540C	757503		
50356016007	DUP-4	SM 2540C	757503		
50356016001	MW-6I	SM 4500-H+B	758356		
50356016002	MW-6D	SM 4500-H+B	758356		
50356016003	MW-2S	SM 4500-H+B	758356		
50356016004	MW-2I	SM 4500-H+B	758356		
50356016005	MW-2D	SM 4500-H+B	758818		
50356016006	MW-3D	SM 4500-H+B	758818		
50356016007	DUP-4	SM 4500-H+B	758818		
50356016001	MW-6I	SM 4500-S2-D	756735		
50356016002	MW-6D	SM 4500-S2-D	756735		
50356016003	MW-2S	SM 4500-S2-D	756735		
50356016004	MW-2I	SM 4500-S2-D	756735		
50356016005	MW-2D	SM 4500-S2-D	756735		
50356016006	MW-3D	SM 4500-S2-D	756735		
50356016007	DUP-4	SM 4500-S2-D	756735		
50356016001	MW-6I	HACH 8146	757930		
50356016002	MW-6D	HACH 8146	757930		
50356016003	MW-2S	HACH 8146	757930		
50356016004	MW-2I	HACH 8146	757930		
50356016005	MW-2D	HACH 8146	757930		
50356016006	MW-3D	HACH 8146	757930		
50356016007	DUP-4	HACH 8146	757930		
50356016001	MW-6I	EPA 353.2	756875		
50356016002	MW-6D	EPA 353.2	756875		
50356016003	MW-2S	EPA 353.2	756875		
50356016004	MW-2I	EPA 353.2	756875		
50356016005	MW-2D	EPA 353.2	756875		
50356016006	MW-3D	EPA 353.2	756875		
50356016007	DUP-4	EPA 353.2	756875		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356016

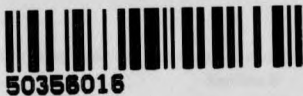
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356016001	MW-6I	EPA 365.1	757908	EPA 365.1	758407
50356016002	MW-6D	EPA 365.1	757908	EPA 365.1	758407
50356016003	MW-2S	EPA 365.1	757908	EPA 365.1	758407
50356016004	MW-2I	EPA 365.1	757908	EPA 365.1	758407
50356016005	MW-2D	EPA 365.1	757908	EPA 365.1	758407
50356016006	MW-3D	EPA 365.1	757908	EPA 365.1	758407
50356016007	DUP-4	EPA 365.1	757908	EPA 365.1	758407
50356016001	MW-6I	SM 5310C	757257		
50356016002	MW-6D	SM 5310C	757266		
50356016003	MW-2S	SM 5310C	757266		
50356016004	MW-2I	SM 5310C	757266		
50356016005	MW-2D	SM 5310C	757266		
50356016006	MW-3D	SM 5310C	757749		
50356016007	DUP-4	SM 5310C	757749		
50356016001	MW-6I	SM 5310C	757259		
50356016002	MW-6D	SM 5310C	757259		
50356016003	MW-2S	SM 5310C	757259		
50356016004	MW-2I	SM 5310C	757259		
50356016005	MW-2D	SM 5310C	757259		
50356016006	MW-3D	SM 5310C	757541		
50356016007	DUP-4	SM 5310C	757541		

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WO#: 50356016



CHAIN-OF-CUSTODY / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A

Required Client Information:

Company: Atlas Indianapolis, Address: 7988 Centerpoint Drive, Suite 100, Indianapolis, IN 46256, Email: mark.breting@oneatlas.com, Project Name: Eagle Valley October 2023, Project #: 170LF01507

Section C

Invoice Information:

Attention: Accounts Payable - Paula Sedam, Company Name: Atlas Indianapolis, Address: [blank], Invoice #: 10498/46, Date: 10/10/2023

Main data table with columns: ITEM #, SAMPLE ID, MATRIX CODE, COLLECTED (START/END), PRESERVATIVES, ANALYSES TEST, REQUESTED ANALYSIS FILTERED (Y/N), and Residual Chlorine (Y/N). Rows 1-7 contain sample data.

Table with 4 columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS. Includes handwritten notes and signatures.

SAMPLER NAME AND SIGNATURE section with fields for PRINT Name of SAMPLER, SIGNATURE of SAMPLER, and DATE Signed.

10 4 2 4



SAMPLE CONDITION UPON RECEIPT FORM

10/10/23 1840 LL

Date/Time and Initials of person examining contents:

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

4. Cooler Temperature(s): [] [] [] []
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	/		
Short Hold Time Analysis (48 hours or less)? Analysis: NO ₂ / NO ₃	/		Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab			Time: placed in walk-in 1900	Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Custody Signatures Present?	/		Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Containers Intact?:	/		Headspace Wisconsin Sulfide?			/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?		/	
			Trip Blank Custody Seals?:			/

COMMENTS:



January 26, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356191

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356191

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50356191001	MW-1S	Water	10/11/23 12:15	10/11/23 16:30
50356191002	MW-1I	Water	10/11/23 11:00	10/11/23 16:30
50356191003	MW-1D	Water	10/11/23 13:50	10/11/23 16:30
50356191004	MW-12S	Water	10/11/23 11:05	10/11/23 16:30
50356191005	MW-12I	Water	10/11/23 14:00	10/11/23 16:30
50356191006	MW-13S	Water	10/11/23 10:55	10/11/23 16:30
50356191007	MW-13S MS	Water	10/11/23 10:55	10/11/23 16:30
50356191008	MW-13S MSD	Water	10/11/23 10:55	10/11/23 16:30
50356191009	MW-13I	Water	10/11/23 12:10	10/11/23 16:30
50356191010	MW-13D	Water	10/11/23 13:45	10/11/23 16:30
50356191011	DUP 2	Water	10/11/23 08:00	10/11/23 16:30
50356193001	FB-4	Water	10/11/23 10:00	10/11/23 16:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356191001	MW-1S	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50356191002	MW-1I	EPA 9056	KBB
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	DMT			5	PASI-I
EPA 903.1	MAR1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	BEP			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50356191003	MW-1D			EPA 9056	KBB
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356191004	MW-12S	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
SM 4500-H+B	LHZ	1	PASI-I		
SM 4500-S2-D	BEP	1	PASI-I		
HACH 8146	STS	1	PASI-I		
EPA 353.2	DAW	2	PASI-I		
EPA 365.1	YAM	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
50356191005	MW-12I	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356191006	MW-13S	SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
SM 5310C	ATS	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
50356191007	MW-13S MS	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
50356191008	MW-13S MSD	EPA 904.0	ZPC	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
50356191009	MW-13I	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
SM 4500-S2-D	BEP	1	PASI-I		

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356191010	MW-13D	HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
SM 5310C	ATS	1	PASI-I		
50356191011	DUP 2	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356193001	FB-4	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356191

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356191001	MW-1S					
EPA 9056	Sulfate	104	mg/L	2.5	10/20/23 13:56	
EPA 6010	Boron	856	ug/L	100	10/25/23 15:55	
EPA 6010	Calcium	137000	ug/L	1000	10/25/23 15:55	
EPA 6010	Iron	197	ug/L	100	10/25/23 15:55	
EPA 6010	Lithium	77.8	ug/L	20.0	10/25/23 15:55	
EPA 6010	Magnesium	34000	ug/L	1000	10/25/23 15:55	
EPA 6010	Manganese	15.7	ug/L	10.0	10/25/23 15:55	
EPA 6010	Molybdenum	32.5	ug/L	10.0	10/25/23 15:55	
EPA 6010	Potassium	8190	ug/L	1000	10/25/23 15:55	
EPA 6010	Silica	15000	ug/L	450	10/25/23 15:55	N2
EPA 6010	Sodium	71700	ug/L	1000	10/25/23 15:55	
EPA 6010	Molybdenum, Dissolved	32.3	ug/L	10.0	10/25/23 16:15	
EPA 6020	Antimony	1.9	ug/L	1.0	10/13/23 06:48	
EPA 6020	Arsenic	4.2	ug/L	1.0	10/13/23 06:48	
EPA 6020	Barium	83.7	ug/L	1.0	10/13/23 06:48	
EPA 6020	Selenium	16.0	ug/L	1.0	10/13/23 06:48	
EPA 903.1	Radium-226	-0.310 ± 0.353 (0.861)	pCi/L		11/01/23 13:38	
EPA 904.0	Radium-228	C:NA T:78% 0.737 ± 0.425 (0.773)	pCi/L		10/25/23 12:10	
		C:74% T:78%				
Total Radium Calculation	Total Radium	0.737 ± 0.778 (1.63)	pCi/L		11/03/23 10:57	
SM 2320B	Alkalinity, Total as CaCO3	400	mg/L	10.0	10/12/23 20:27	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	400	mg/L	10.0	10/12/23 20:27	
SM 2540C	Total Dissolved Solids	708	mg/L	10.0	10/17/23 11:38	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/24/23 12:03	H3
EPA 353.2	Nitrogen, Nitrate	0.79	mg/L	0.10	10/11/23 23:40	
EPA 365.1	Phosphate as P04	0.21	mg/L	0.15	10/20/23 12:20	
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	10/18/23 18:58	
SM 5310C	Dissolved Organic Carbon	4.7	mg/L	1.0	10/18/23 23:28	
50356191002	MW-1I					
EPA 9056	Chloride	114	mg/L	2.5	10/20/23 14:30	
EPA 9056	Fluoride	0.26	mg/L	0.10	10/20/23 14:13	
EPA 9056	Sulfate	89.7	mg/L	2.5	10/20/23 14:30	
EPA 6010	Boron	452	ug/L	100	10/25/23 15:56	
EPA 6010	Calcium	79900	ug/L	1000	10/25/23 15:56	
EPA 6010	Lithium	86.9	ug/L	20.0	10/25/23 15:56	
EPA 6010	Magnesium	25000	ug/L	1000	10/25/23 15:56	
EPA 6010	Manganese	281	ug/L	10.0	10/25/23 15:56	
EPA 6010	Molybdenum	81.5	ug/L	10.0	10/25/23 15:56	
EPA 6010	Potassium	8720	ug/L	1000	10/25/23 15:56	
EPA 6010	Silica	9810	ug/L	450	10/25/23 15:56	N2
EPA 6010	Sodium	81900	ug/L	1000	10/25/23 15:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356191

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356191002	MW-1I					
EPA 6010	Manganese, Dissolved	286	ug/L	10.0	10/25/23 16:16	
EPA 6010	Molybdenum, Dissolved	88.1	ug/L	10.0	10/25/23 16:16	
EPA 6020	Barium	63.4	ug/L	1.0	10/13/23 06:51	
EPA 903.1	Radium-226	1.06 ± 0.597 (0.756)	pCi/L		11/01/23 13:38	
EPA 904.0	Radium-228	C:NA T:79% 0.596 ± 0.373 (0.684)	pCi/L		10/25/23 12:10	
Total Radium Calculation	Total Radium	C:74% T:79% 1.66 ± 0.970 (1.44)	pCi/L		11/03/23 10:57	
SM 2320B	Alkalinity, Total as CaCO3	235	mg/L	10.0	10/12/23 20:27	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	235	mg/L	10.0	10/12/23 20:27	
SM 2540C	Total Dissolved Solids	557	mg/L	10.0	10/17/23 11:38	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	10/24/23 12:05	H3
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	10/18/23 19:09	
SM 5310C	Dissolved Organic Carbon	2.9	mg/L	1.0	10/18/23 23:38	
50356191003	MW-1D					
EPA 9056	Chloride	85.4	mg/L	2.5	10/20/23 15:04	
EPA 9056	Fluoride	0.32	mg/L	0.10	10/20/23 14:47	
EPA 9056	Sulfate	70.8	mg/L	2.5	10/20/23 15:04	
EPA 6010	Boron	417	ug/L	100	10/25/23 15:58	
EPA 6010	Calcium	72400	ug/L	1000	10/25/23 15:58	
EPA 6010	Iron	1050	ug/L	100	10/25/23 15:58	
EPA 6010	Lithium	83.3	ug/L	20.0	10/25/23 15:58	
EPA 6010	Magnesium	21500	ug/L	1000	10/25/23 15:58	
EPA 6010	Manganese	374	ug/L	10.0	10/25/23 15:58	
EPA 6010	Molybdenum	92.1	ug/L	10.0	10/25/23 15:58	
EPA 6010	Potassium	7590	ug/L	1000	10/25/23 15:58	
EPA 6010	Silica	10100	ug/L	450	10/25/23 15:58	N2
EPA 6010	Sodium	66800	ug/L	1000	10/25/23 15:58	
EPA 6010	Manganese, Dissolved	364	ug/L	10.0	10/25/23 16:18	
EPA 6010	Molybdenum, Dissolved	96.8	ug/L	10.0	10/25/23 16:18	
EPA 6020	Arsenic	2.7	ug/L	1.0	10/13/23 06:54	
EPA 6020	Barium	59.2	ug/L	1.0	10/13/23 06:54	
EPA 903.1	Radium-226	0.727 ± 0.416 (0.382)	pCi/L		11/01/23 13:38	
EPA 904.0	Radium-228	C:NA T:81% 0.798 ± 0.398 (0.684)	pCi/L		10/25/23 12:10	
		C:78% T:81%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356191003	MW-1D					
Total Radium Calculation	Total Radium	1.53 ± 0.814 (1.07)	pCi/L		11/03/23 10:57	
SM 2320B	Alkalinity, Total as CaCO3	225	mg/L	10.0	10/12/23 20:27	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	225	mg/L	10.0	10/12/23 20:27	
SM 2540C	Total Dissolved Solids	463	mg/L	10.0	10/17/23 11:39	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/24/23 12:06	H3
HACH 8146	Iron, Ferrous	0.25	mg/L	0.20	10/18/23 14:45	H3,N2
EPA 353.2	Nitrogen, Nitrate	0.91	mg/L	0.10	10/11/23 23:51	
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	10/18/23 19:19	
SM 5310C	Dissolved Organic Carbon	3.3	mg/L	1.0	10/18/23 23:49	
50356191004	MW-12S					
EPA 9056	Chloride	38.4	mg/L	2.5	10/20/23 15:38	
EPA 9056	Fluoride	0.20	mg/L	0.10	10/20/23 15:21	
EPA 9056	Sulfate	175	mg/L	2.5	10/20/23 15:38	
EPA 6010	Boron	6950	ug/L	100	10/25/23 15:59	
EPA 6010	Calcium	135000	ug/L	1000	10/25/23 15:59	
EPA 6010	Lithium	129	ug/L	20.0	10/25/23 15:59	
EPA 6010	Magnesium	27600	ug/L	1000	10/25/23 15:59	
EPA 6010	Molybdenum	15.0	ug/L	10.0	10/25/23 15:59	
EPA 6010	Potassium	13300	ug/L	1000	10/25/23 15:59	
EPA 6010	Silica	11800	ug/L	450	10/25/23 15:59	N2
EPA 6010	Sodium	92700	ug/L	1000	10/25/23 15:59	
EPA 6010	Molybdenum, Dissolved	16.0	ug/L	10.0	10/25/23 16:19	
EPA 6020	Antimony	1.8	ug/L	1.0	10/13/23 06:58	
EPA 6020	Barium	136	ug/L	1.0	10/13/23 06:58	
EPA 6020	Selenium	23.7	ug/L	1.0	10/13/23 06:58	
EPA 903.1	Radium-226	-0.0518 ± 0.393 (0.821)	pCi/L		11/01/23 13:38	
EPA 904.0	Radium-228	0.600 ± 0.542 (1.11) C:60% T:77%	pCi/L		10/25/23 12:10	
Total Radium Calculation	Total Radium	0.600 ± 0.935 (1.93)	pCi/L		11/03/23 10:57	
SM 2320B	Alkalinity, Total as CaCO3	432	mg/L	10.0	10/12/23 20:27	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	432	mg/L	10.0	10/12/23 20:27	
SM 2540C	Total Dissolved Solids	760	mg/L	20.0	10/17/23 11:45	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	10/24/23 16:33	H3
EPA 353.2	Nitrogen, Nitrate	3.8	mg/L	0.10	10/11/23 23:32	
SM 5310C	Total Organic Carbon	2.3	mg/L	1.0	10/18/23 19:29	
SM 5310C	Dissolved Organic Carbon	2.2	mg/L	1.0	10/19/23 00:00	
50356191005	MW-12I					
EPA 9056	Chloride	80.5	mg/L	2.5	10/20/23 19:00	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356191005	MW-12I					
EPA 9056	Fluoride	0.22	mg/L	0.10	10/20/23 18:44	
EPA 9056	Sulfate	198	mg/L	2.5	10/20/23 19:00	
EPA 6010	Boron	2450	ug/L	100	10/25/23 16:01	
EPA 6010	Calcium	139000	ug/L	1000	10/25/23 16:01	
EPA 6010	Iron	188	ug/L	100	10/25/23 16:01	
EPA 6010	Lithium	120	ug/L	20.0	10/25/23 16:01	
EPA 6010	Magnesium	32100	ug/L	1000	10/25/23 16:01	
EPA 6010	Manganese	323	ug/L	10.0	10/25/23 16:01	
EPA 6010	Molybdenum	157	ug/L	10.0	10/25/23 16:01	
EPA 6010	Potassium	12400	ug/L	1000	10/25/23 16:01	
EPA 6010	Silica	11200	ug/L	450	10/25/23 16:01	N2
EPA 6010	Sodium	82400	ug/L	1000	10/25/23 16:01	
EPA 6010	Manganese, Dissolved	325	ug/L	10.0	10/25/23 16:21	
EPA 6010	Molybdenum, Dissolved	160	ug/L	10.0	10/25/23 16:21	
EPA 6020	Barium	84.7	ug/L	1.0	10/13/23 07:01	
EPA 903.1	Radium-226	1.60 ± 0.679 (0.730)	pCi/L		11/01/23 13:38	
EPA 904.0	Radium-228	C:NA T:75% 1.19 ± 0.510 (0.836)	pCi/L		10/25/23 12:10	
		C:78% T:75%				
Total Radium Calculation	Total Radium	2.79 ± 1.19 (1.57)	pCi/L		11/03/23 10:57	
SM 2320B	Alkalinity, Total as CaCO3	342	mg/L	10.0	10/12/23 20:49	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	342	mg/L	10.0	10/12/23 20:49	
SM 2540C	Total Dissolved Solids	756	mg/L	20.0	10/17/23 11:46	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/24/23 16:34	H3
SM 5310C	Total Organic Carbon	2.1	mg/L	1.0	10/18/23 20:02	
SM 5310C	Dissolved Organic Carbon	2.7	mg/L	1.0	10/19/23 00:10	
50356191006	MW-13S					
EPA 9056	Chloride	32.0	mg/L	2.5	10/20/23 20:08	
EPA 9056	Sulfate	15.8	mg/L	0.25	10/20/23 19:51	
EPA 6010	Calcium	105000	ug/L	1000	10/25/23 15:38	
EPA 6010	Magnesium	26800	ug/L	1000	10/25/23 15:38	
EPA 6010	Potassium	3740	ug/L	1000	10/25/23 15:38	
EPA 6010	Silica	15100	ug/L	450	10/25/23 15:38	N2
EPA 6010	Sodium	50700	ug/L	1000	10/25/23 15:38	
EPA 6020	Barium	54.1	ug/L	1.0	10/13/23 07:11	
EPA 903.1	Radium-226	0.264 ± 0.403 (0.693)	pCi/L		11/01/23 13:38	
EPA 904.0	Radium-228	C:NA T:81% 0.697 ± 0.429 (0.807)	pCi/L		10/25/23 12:10	
		C:79% T:81%				

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356191006	MW-13S					
Total Radium Calculation	Total Radium	0.961 ± 0.832 (1.50)	pCi/L		11/03/23 10:57	
SM 2320B	Alkalinity, Total as CaCO3	380	mg/L	10.0	10/12/23 20:27	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	380	mg/L	10.0	10/12/23 20:27	
SM 2540C	Total Dissolved Solids	475	mg/L	10.0	10/17/23 11:46	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/24/23 16:34	H3
EPA 353.2	Nitrogen, Nitrate	7.9	mg/L	0.50	10/11/23 23:58	
EPA 365.1	Phosphate as P04	0.15	mg/L	0.15	10/20/23 12:22	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	10/18/23 20:12	
SM 5310C	Dissolved Organic Carbon	2.8	mg/L	1.0	10/19/23 00:20	
50356191007	MW-13S MS					
EPA 903.1	Radium-226	102.89 %REC ± NA (NA) C:NA T:NA	pCi/L		11/01/23 13:38	
EPA 904.0	Radium-228	76.12 %REC ± NA (NA) C:NA T:NA	pCi/L		10/25/23 12:10	
50356191008	MW-13S MSD					
EPA 903.1	Radium-226	101.97 %REC 0.90RPD ± NA (NA) C:NA T:NA	pCi/L		11/01/23 13:50	
EPA 904.0	Radium-228	73.40 %REC 3.63RPD ± NA (NA) C:NA T:NA	pCi/L		10/25/23 12:10	
50356191009	MW-13I					
EPA 9056	Chloride	32.8	mg/L	2.5	10/25/23 17:48	
EPA 9056	Sulfate	18.4	mg/L	0.25	10/24/23 20:18	
EPA 6010	Calcium	76200	ug/L	1000	10/25/23 16:02	
EPA 6010	Magnesium	21200	ug/L	1000	10/25/23 16:02	
EPA 6010	Potassium	2220	ug/L	1000	10/25/23 16:02	
EPA 6010	Silica	16000	ug/L	450	10/25/23 16:02	N2
EPA 6010	Sodium	30000	ug/L	1000	10/25/23 16:02	
EPA 6020	Barium	35.4	ug/L	1.0	10/13/23 07:35	
EPA 903.1	Radium-226	0.212 ± 0.243 (0.144) C:NA T:78%	pCi/L		11/01/23 13:50	
EPA 904.0	Radium-228	0.523 ± 0.391 (0.762) C:73% T:78%	pCi/L		10/25/23 12:10	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356191009	MW-13I					
Total Radium Calculation	Total Radium	0.735 ± 0.634 (0.906)	pCi/L		11/03/23 10:57	
SM 2320B	Alkalinity, Total as CaCO3	266	mg/L	10.0	10/12/23 20:27	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	266	mg/L	10.0	10/12/23 20:27	
SM 2540C	Total Dissolved Solids	354	mg/L	10.0	10/17/23 11:46	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/24/23 16:36	H3
EPA 353.2	Nitrogen, Nitrate	4.2	mg/L	0.10	10/11/23 23:38	
SM 5310C	Total Organic Carbon	1.5	mg/L	1.0	10/18/23 21:06	
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	10/19/23 00:52	
50356191010	MW-13D					
EPA 9056	Chloride	25.4	mg/L	2.5	10/24/23 21:08	
EPA 9056	Sulfate	25.6	mg/L	0.25	10/24/23 20:51	
EPA 6010	Calcium	71000	ug/L	1000	10/25/23 16:04	
EPA 6010	Magnesium	20400	ug/L	1000	10/25/23 16:04	
EPA 6010	Manganese	11.8	ug/L	10.0	10/25/23 16:04	
EPA 6010	Potassium	1760	ug/L	1000	10/25/23 16:04	
EPA 6010	Silica	14900	ug/L	450	10/25/23 16:04	N2
EPA 6010	Sodium	30000	ug/L	1000	10/25/23 16:04	
EPA 6010	Manganese, Dissolved	13.5	ug/L	10.0	10/25/23 16:34	
EPA 6020	Barium	57.4	ug/L	1.0	10/13/23 07:38	
EPA 903.1	Radium-226	0.0448 ± 0.264 (0.538) C:NA T:81%	pCi/L		11/01/23 13:50	
EPA 904.0	Radium-228	1.37 ± 0.529 (0.806) C:72% T:81%	pCi/L		10/25/23 12:10	
Total Radium Calculation	Total Radium	1.41 ± 0.793 (1.34)	pCi/L		11/03/23 10:57	
SM 2320B	Alkalinity, Total as CaCO3	257	mg/L	10.0	10/12/23 20:27	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	257	mg/L	10.0	10/12/23 20:27	
SM 2540C	Total Dissolved Solids	331	mg/L	10.0	10/17/23 11:46	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/24/23 16:36	H3
EPA 353.2	Nitrogen, Nitrate	0.78	mg/L	0.10	10/11/23 23:42	
EPA 365.1	Phosphate as P04	0.16	mg/L	0.15	10/20/23 12:25	
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	10/18/23 21:16	
SM 5310C	Dissolved Organic Carbon	1.5	mg/L	1.0	10/19/23 01:32	
50356191011	DUP 2					
EPA 9056	Chloride	38.5	mg/L	2.5	10/24/23 21:42	
EPA 9056	Fluoride	0.16	mg/L	0.10	10/24/23 21:25	
EPA 9056	Sulfate	175	mg/L	2.5	10/24/23 21:42	
EPA 6010	Boron	7000	ug/L	100	10/25/23 16:05	
EPA 6010	Calcium	136000	ug/L	1000	10/25/23 16:05	
EPA 6010	Lithium	130	ug/L	20.0	10/25/23 16:05	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356191011	DUP 2					
EPA 6010	Magnesium	27600	ug/L	1000	10/25/23 16:05	
EPA 6010	Molybdenum	15.7	ug/L	10.0	10/25/23 16:05	
EPA 6010	Potassium	13400	ug/L	1000	10/25/23 16:05	
EPA 6010	Silica	11800	ug/L	450	10/25/23 16:05	N2
EPA 6010	Sodium	92900	ug/L	1000	10/25/23 16:05	
EPA 6010	Molybdenum, Dissolved	15.7	ug/L	10.0	10/25/23 16:36	
EPA 6020	Antimony	1.8	ug/L	1.0	10/13/23 07:42	
EPA 6020	Barium	135	ug/L	1.0	10/13/23 07:42	
EPA 6020	Selenium	23.8	ug/L	1.0	10/13/23 07:42	
EPA 903.1	Radium-226	0.129 ± 0.326 (0.605) C:NA T:84%	pCi/L		11/01/23 13:50	
EPA 904.0	Radium-228	0.123 ± 0.405 (0.912) C:72% T:84%	pCi/L		10/25/23 15:22	
Total Radium Calculation	Total Radium	0.252 ± 0.731 (1.52)	pCi/L		11/03/23 10:57	
SM 2320B	Alkalinity, Total as CaCO3	431	mg/L	10.0	10/12/23 20:27	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	431	mg/L	10.0	10/12/23 20:27	
SM 2540C	Total Dissolved Solids	770	mg/L	20.0	10/17/23 11:46	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/24/23 16:38	H3
EPA 353.2	Nitrogen, Nitrate	0.33	mg/L	0.10	10/11/23 23:17	
SM 5310C	Total Organic Carbon	2.7	mg/L	1.0	10/18/23 21:26	
SM 5310C	Dissolved Organic Carbon	2.9	mg/L	1.0	10/19/23 01:41	
50356193001	FB-4					
EPA 9056	Chloride	0.38	mg/L	0.25	10/24/23 21:59	
EPA 9056	Sulfate	96.5	mg/L	2.5	10/24/23 22:16	
EPA 903.1	Radium-226	0.000 ± 0.256 (0.556) C:NA T:78%	pCi/L		11/01/23 13:50	
EPA 904.0	Radium-228	0.555 ± 0.443 (0.882) C:76% T:78%	pCi/L		10/25/23 15:22	
Total Radium Calculation	Total Radium	0.555 ± 0.699 (1.44)	pCi/L		11/03/23 10:57	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	10/24/23 16:39	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

Sample: MW-1S	Lab ID: 50356191001		Collected: 10/11/23 12:15	Received: 10/11/23 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	ND	mg/L	0.25	0.067	1		10/20/23 13:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/20/23 13:39	16984-48-8	
Sulfate	104	mg/L	2.5	1.9	10		10/20/23 13:56	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 15:55	7429-90-5	
Boron	856	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 15:55	7440-42-8	
Calcium	137000	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 15:55	7440-70-2	
Iron	197	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 15:55	7439-89-6	
Lithium	77.8	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 15:55	7439-93-2	
Magnesium	34000	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 15:55	7439-95-4	
Manganese	15.7	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:55	7439-96-5	
Molybdenum	32.5	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:55	7439-98-7	
Potassium	8190	ug/L	1000	120	1	10/15/23 14:55	10/25/23 15:55	7440-09-7	
Silica	15000	ug/L	450		1	10/15/23 14:55	10/25/23 15:55	7631-86-9	N2
Sodium	71700	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 15:55	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:15	7439-96-5	
Molybdenum, Dissolved	32.3	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:15	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	1.9	ug/L	1.0	0.080	1	10/12/23 16:56	10/13/23 06:48	7440-36-0	
Arsenic	4.2	ug/L	1.0	0.12	1	10/12/23 16:56	10/13/23 06:48	7440-38-2	
Barium	83.7	ug/L	1.0	0.065	1	10/12/23 16:56	10/13/23 06:48	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/13/23 06:48	7440-48-4	
Selenium	16.0	ug/L	1.0	0.19	1	10/12/23 16:56	10/13/23 06:48	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	400	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Bicarbonate (CaCO3)	400	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:27		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	708	mg/L	10.0	10.0	1		10/17/23 11:38		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/24/23 12:03		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-1S		Lab ID: 50356191001		Collected: 10/11/23 12:15	Received: 10/11/23 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:44	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.79	mg/L	0.10	0.011	1		10/11/23 23:40	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:40	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.21	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:20		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.7	mg/L	1.0	0.24	1		10/18/23 18:58	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	4.7	mg/L	1.0	0.24	1		10/18/23 23:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-11 **Lab ID: 50356191002** Collected: 10/11/23 11:00 Received: 10/11/23 16:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	114	mg/L	2.5	0.67	10		10/20/23 14:30	16887-00-6	
Fluoride	0.26	mg/L	0.10	0.017	1		10/20/23 14:13	16984-48-8	
Sulfate	89.7	mg/L	2.5	1.9	10		10/20/23 14:30	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 15:56	7429-90-5	
Boron	452	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 15:56	7440-42-8	
Calcium	79900	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 15:56	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 15:56	7439-89-6	
Lithium	86.9	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 15:56	7439-93-2	
Magnesium	25000	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 15:56	7439-95-4	
Manganese	281	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:56	7439-96-5	
Molybdenum	81.5	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:56	7439-98-7	
Potassium	8720	ug/L	1000	120	1	10/15/23 14:55	10/25/23 15:56	7440-09-7	
Silica	9810	ug/L	450		1	10/15/23 14:55	10/25/23 15:56	7631-86-9	N2
Sodium	81900	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 15:56	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	286	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:16	7439-96-5	
Molybdenum, Dissolved	88.1	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:16	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/12/23 16:56	10/13/23 06:51	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/12/23 16:56	10/13/23 06:51	7440-38-2	
Barium	63.4	ug/L	1.0	0.065	1	10/12/23 16:56	10/13/23 06:51	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/13/23 06:51	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/12/23 16:56	10/13/23 06:51	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	235	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Bicarbonate (CaCO3)	235	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:27		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	557	mg/L	10.0	10.0	1		10/17/23 11:38		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	0.10	1		10/24/23 12:05		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-11		Lab ID: 50356191002		Collected: 10/11/23 11:00	Received: 10/11/23 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:43	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/12/23 00:04	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/12/23 00:04	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:20		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.4	mg/L	1.0	0.24	1		10/18/23 19:09	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.9	mg/L	1.0	0.24	1		10/18/23 23:38		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-1D **Lab ID: 50356191003** Collected: 10/11/23 13:50 Received: 10/11/23 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	85.4	mg/L	2.5	0.67	10		10/20/23 15:04	16887-00-6	
Fluoride	0.32	mg/L	0.10	0.017	1		10/20/23 14:47	16984-48-8	
Sulfate	70.8	mg/L	2.5	1.9	10		10/20/23 15:04	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 15:58	7429-90-5	
Boron	417	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 15:58	7440-42-8	
Calcium	72400	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 15:58	7440-70-2	
Iron	1050	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 15:58	7439-89-6	
Lithium	83.3	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 15:58	7439-93-2	
Magnesium	21500	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 15:58	7439-95-4	
Manganese	374	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:58	7439-96-5	
Molybdenum	92.1	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:58	7439-98-7	
Potassium	7590	ug/L	1000	120	1	10/15/23 14:55	10/25/23 15:58	7440-09-7	
Silica	10100	ug/L	450		1	10/15/23 14:55	10/25/23 15:58	7631-86-9	N2
Sodium	66800	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 15:58	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	364	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:18	7439-96-5	
Molybdenum, Dissolved	96.8	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:18	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/12/23 16:56	10/13/23 06:54	7440-36-0	
Arsenic	2.7	ug/L	1.0	0.12	1	10/12/23 16:56	10/13/23 06:54	7440-38-2	
Barium	59.2	ug/L	1.0	0.065	1	10/12/23 16:56	10/13/23 06:54	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/13/23 06:54	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/12/23 16:56	10/13/23 06:54	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	225	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Bicarbonate (CaCO3)	225	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:27		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	463	mg/L	10.0	10.0	1		10/17/23 11:39		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		10/24/23 12:06		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-1D		Lab ID: 50356191003		Collected: 10/11/23 13:50	Received: 10/11/23 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	0.25	mg/L	0.20	0.035	1		10/18/23 14:45	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	0.91	mg/L	0.10	0.011	1		10/11/23 23:51	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:51	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:21			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.8	mg/L	1.0	0.24	1		10/18/23 19:19	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.3	mg/L	1.0	0.24	1		10/18/23 23:49			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

Sample: MW-12S **Lab ID: 50356191004** Collected: 10/11/23 11:05 Received: 10/11/23 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	38.4	mg/L	2.5	0.67	10		10/20/23 15:38	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.017	1		10/20/23 15:21	16984-48-8	
Sulfate	175	mg/L	2.5	1.9	10		10/20/23 15:38	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 15:59	7429-90-5	
Boron	6950	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 15:59	7440-42-8	
Calcium	135000	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 15:59	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 15:59	7439-89-6	
Lithium	129	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 15:59	7439-93-2	
Magnesium	27600	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 15:59	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:59	7439-96-5	
Molybdenum	15.0	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:59	7439-98-7	
Potassium	13300	ug/L	1000	120	1	10/15/23 14:55	10/25/23 15:59	7440-09-7	
Silica	11800	ug/L	450		1	10/15/23 14:55	10/25/23 15:59	7631-86-9	N2
Sodium	92700	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 15:59	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:19	7439-96-5	
Molybdenum, Dissolved	16.0	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:19	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	1.8	ug/L	1.0	0.080	1	10/12/23 16:56	10/13/23 06:58	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/12/23 16:56	10/13/23 06:58	7440-38-2	
Barium	136	ug/L	1.0	0.065	1	10/12/23 16:56	10/13/23 06:58	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/13/23 06:58	7440-48-4	
Selenium	23.7	ug/L	1.0	0.19	1	10/12/23 16:56	10/13/23 06:58	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	432	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Bicarbonate (CaCO3)	432	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:27		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	760	mg/L	20.0	20.0	1		10/17/23 11:45		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	0.10	1		10/24/23 16:33		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-12S		Lab ID: 50356191004		Collected: 10/11/23 11:05	Received: 10/11/23 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:44	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	3.8	mg/L	0.10	0.011	1		10/11/23 23:32	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:32	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:21		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	2.3	mg/L	1.0	0.24	1		10/18/23 19:29	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	2.2	mg/L	1.0	0.24	1		10/19/23 00:00		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

Sample: MW-12I **Lab ID: 50356191005** Collected: 10/11/23 14:00 Received: 10/11/23 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Chloride	80.5	mg/L	2.5	0.67	10		10/20/23 19:00	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.017	1		10/20/23 18:44	16984-48-8	
Sulfate	198	mg/L	2.5	1.9	10		10/20/23 19:00	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 16:01	7429-90-5	
Boron	2450	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 16:01	7440-42-8	
Calcium	139000	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 16:01	7440-70-2	
Iron	188	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 16:01	7439-89-6	
Lithium	120	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 16:01	7439-93-2	
Magnesium	32100	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 16:01	7439-95-4	
Manganese	323	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:01	7439-96-5	
Molybdenum	157	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:01	7439-98-7	
Potassium	12400	ug/L	1000	120	1	10/15/23 14:55	10/25/23 16:01	7440-09-7	
Silica	11200	ug/L	450		1	10/15/23 14:55	10/25/23 16:01	7631-86-9	N2
Sodium	82400	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 16:01	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Manganese, Dissolved	325	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:21	7439-96-5	
Molybdenum, Dissolved	160	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:21	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/12/23 16:56	10/13/23 07:01	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/12/23 16:56	10/13/23 07:01	7440-38-2	
Barium	84.7	ug/L	1.0	0.065	1	10/12/23 16:56	10/13/23 07:01	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/13/23 07:01	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/12/23 16:56	10/13/23 07:01	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	342	mg/L	10.0	10.0	1		10/12/23 20:49		
Alkalinity,Bicarbonate (CaCO3)	342	mg/L	10.0	10.0	1		10/12/23 20:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:49		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	756	mg/L	20.0	20.0	1		10/17/23 11:46		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		10/24/23 16:34		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-12I		Lab ID: 50356191005		Collected: 10/11/23 14:00	Received: 10/11/23 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:51	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/11/23 23:53	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:53	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:22			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.1	mg/L	1.0	0.24	1		10/18/23 20:02	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.7	mg/L	1.0	0.24	1		10/19/23 00:10			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-13S **Lab ID: 50356191006** Collected: 10/11/23 10:55 Received: 10/11/23 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	32.0	mg/L	2.5	0.67	10		10/20/23 20:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/20/23 19:51	16984-48-8	
Sulfate	15.8	mg/L	0.25	0.19	1		10/20/23 19:51	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 15:38	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 15:38	7440-42-8	
Calcium	105000	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 15:38	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 15:38	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 15:38	7439-93-2	
Magnesium	26800	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 15:38	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:38	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 15:38	7439-98-7	
Potassium	3740	ug/L	1000	120	1	10/15/23 14:55	10/25/23 15:38	7440-09-7	
Silica	15100	ug/L	450		1	10/15/23 14:55	10/25/23 15:38	7631-86-9	N2
Sodium	50700	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 15:38	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:22	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:22	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/12/23 16:56	10/13/23 07:11	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/12/23 16:56	10/13/23 07:11	7440-38-2	
Barium	54.1	ug/L	1.0	0.065	1	10/12/23 16:56	10/13/23 07:11	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/13/23 07:11	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/12/23 16:56	10/13/23 07:11	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	380	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Bicarbonate (CaCO3)	380	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:27		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	475	mg/L	10.0	10.0	1		10/17/23 11:46		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/24/23 16:34		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-13S		Lab ID: 50356191006		Collected: 10/11/23 10:55	Received: 10/11/23 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:43	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	7.9	mg/L	0.50	0.055	5		10/11/23 23:58	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.50	0.020	5		10/11/23 23:58	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	0.15	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:22		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.4	mg/L	1.0	0.24	1		10/18/23 20:12	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.8	mg/L	1.0	0.24	1		10/19/23 00:20		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

Sample: MW-13I **Lab ID: 50356191009** Collected: 10/11/23 12:10 Received: 10/11/23 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	32.8	mg/L	2.5	0.67	10		10/25/23 17:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/24/23 20:18	16984-48-8	
Sulfate	18.4	mg/L	0.25	0.19	1		10/24/23 20:18	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 16:02	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 16:02	7440-42-8	
Calcium	76200	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 16:02	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 16:02	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 16:02	7439-93-2	
Magnesium	21200	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 16:02	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:02	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:02	7439-98-7	
Potassium	2220	ug/L	1000	120	1	10/15/23 14:55	10/25/23 16:02	7440-09-7	
Silica	16000	ug/L	450		1	10/15/23 14:55	10/25/23 16:02	7631-86-9	N2
Sodium	30000	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 16:02	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:33	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:33	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/12/23 16:56	10/13/23 07:35	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/12/23 16:56	10/13/23 07:35	7440-38-2	
Barium	35.4	ug/L	1.0	0.065	1	10/12/23 16:56	10/13/23 07:35	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/13/23 07:35	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/12/23 16:56	10/13/23 07:35	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	266	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Bicarbonate (CaCO3)	266	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:27		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	354	mg/L	10.0	10.0	1		10/17/23 11:46		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		10/24/23 16:36		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-13I		Lab ID: 50356191009		Collected: 10/11/23 12:10	Received: 10/11/23 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:44	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	4.2	mg/L	0.10	0.011	1		10/11/23 23:38	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:38	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:24		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.5	mg/L	1.0	0.24	1		10/18/23 21:06	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.6	mg/L	1.0	0.24	1		10/19/23 00:52		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

Sample: MW-13D **Lab ID: 50356191010** Collected: 10/11/23 13:45 Received: 10/11/23 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	25.4	mg/L	2.5	0.67	10		10/24/23 21:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/24/23 20:51	16984-48-8	
Sulfate	25.6	mg/L	0.25	0.19	1		10/24/23 20:51	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 16:04	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 16:04	7440-42-8	
Calcium	71000	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 16:04	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 16:04	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 16:04	7439-93-2	
Magnesium	20400	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 16:04	7439-95-4	
Manganese	11.8	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:04	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:04	7439-98-7	
Potassium	1760	ug/L	1000	120	1	10/15/23 14:55	10/25/23 16:04	7440-09-7	
Silica	14900	ug/L	450		1	10/15/23 14:55	10/25/23 16:04	7631-86-9	N2
Sodium	30000	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 16:04	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	13.5	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:34	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:34	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/12/23 16:56	10/13/23 07:38	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/12/23 16:56	10/13/23 07:38	7440-38-2	
Barium	57.4	ug/L	1.0	0.065	1	10/12/23 16:56	10/13/23 07:38	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/13/23 07:38	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/12/23 16:56	10/13/23 07:38	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	257	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Bicarbonate (CaCO3)	257	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:27		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	331	mg/L	10.0	10.0	1		10/17/23 11:46		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		10/24/23 16:36		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-13D		Lab ID: 50356191010		Collected: 10/11/23 13:45	Received: 10/11/23 16:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:45	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	0.78	mg/L	0.10	0.011	1		10/11/23 23:42	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:42	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.16	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:25			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.7	mg/L	1.0	0.24	1		10/18/23 21:16	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.5	mg/L	1.0	0.24	1		10/19/23 01:32			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

Sample: DUP 2 **Lab ID: 50356191011** Collected: 10/11/23 08:00 Received: 10/11/23 16:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	38.5	mg/L	2.5	0.67	10		10/24/23 21:42	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.017	1		10/24/23 21:25	16984-48-8	
Sulfate	175	mg/L	2.5	1.9	10		10/24/23 21:42	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 16:05	7429-90-5	
Boron	7000	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 16:05	7440-42-8	
Calcium	136000	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 16:05	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 16:05	7439-89-6	
Lithium	130	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 16:05	7439-93-2	
Magnesium	27600	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 16:05	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:05	7439-96-5	
Molybdenum	15.7	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:05	7439-98-7	
Potassium	13400	ug/L	1000	120	1	10/15/23 14:55	10/25/23 16:05	7440-09-7	
Silica	11800	ug/L	450		1	10/15/23 14:55	10/25/23 16:05	7631-86-9	N2
Sodium	92900	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 16:05	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:36	7439-96-5	
Molybdenum, Dissolved	15.7	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:36	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	1.8	ug/L	1.0	0.080	1	10/12/23 16:56	10/13/23 07:42	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/12/23 16:56	10/13/23 07:42	7440-38-2	
Barium	135	ug/L	1.0	0.065	1	10/12/23 16:56	10/13/23 07:42	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/13/23 07:42	7440-48-4	
Selenium	23.8	ug/L	1.0	0.19	1	10/12/23 16:56	10/13/23 07:42	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	431	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Bicarbonate (CaCO3)	431	mg/L	10.0	10.0	1		10/12/23 20:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:27		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	770	mg/L	20.0	20.0	1		10/17/23 11:46		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/24/23 16:38		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: DUP 2		Lab ID: 50356191011		Collected: 10/11/23 08:00	Received: 10/11/23 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:29	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	0.33	mg/L	0.10	0.011	1		10/11/23 23:17	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:17	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:27		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	2.7	mg/L	1.0	0.24	1		10/18/23 21:26	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	2.9	mg/L	1.0	0.24	1		10/19/23 01:41		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

Sample: FB-4		Lab ID: 50356193001		Collected: 10/11/23 10:00	Received: 10/11/23 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	0.38	mg/L	0.25	0.067	1		10/24/23 21:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/24/23 21:59	16984-48-8	
Sulfate	96.5	mg/L	2.5	1.9	10		10/24/23 22:16	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/15/23 14:55	10/25/23 16:07	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/15/23 14:55	10/25/23 16:07	7440-42-8	
Calcium	ND	ug/L	1000	56.7	1	10/15/23 14:55	10/25/23 16:07	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/15/23 14:55	10/25/23 16:07	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/15/23 14:55	10/25/23 16:07	7439-93-2	
Magnesium	ND	ug/L	1000	32.8	1	10/15/23 14:55	10/25/23 16:07	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:07	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/15/23 14:55	10/25/23 16:07	7439-98-7	
Potassium	ND	ug/L	1000	120	1	10/15/23 14:55	10/25/23 16:07	7440-09-7	
Silica	ND	ug/L	450		1	10/15/23 14:55	10/25/23 16:07	7631-86-9	N2
Sodium	ND	ug/L	1000	48.2	1	10/15/23 14:55	10/25/23 16:07	7440-23-5	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.080	1	10/12/23 16:56	10/16/23 06:13	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/12/23 16:56	10/16/23 06:13	7440-38-2	
Barium	ND	ug/L	1.0	0.065	1	10/12/23 16:56	10/16/23 06:13	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/12/23 16:56	10/16/23 06:13	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/12/23 16:56	10/16/23 06:13	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	ND	mg/L	10.0	10.0	1		10/12/23 20:49		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/12/23 20:49		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/17/23 11:47		PL
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.7	Std. Units	0.10	0.10	1		10/24/23 16:39		H3
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8	

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: FB-4		Lab ID: 50356193001		Collected: 10/11/23 10:00	Received: 10/11/23 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:42	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/11/23 23:19	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/11/23 23:19	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/18/23 13:00	10/20/23 12:54		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/18/23 21:39	7440-44-0	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

QC Batch: 758028 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001

METHOD BLANK: 3473743 Matrix: Water
 Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/20/23 10:47	
Fluoride	mg/L	ND	0.10	0.017	10/20/23 10:47	
Sulfate	mg/L	ND	0.25	0.19	10/20/23 10:47	

LABORATORY CONTROL SAMPLE: 3473744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473745 3473746

Parameter	Units	50356191006		3473746		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	32.0	25	25	55.2	55.2	93	93	80-120	0	15
Fluoride	mg/L	ND	1	1	0.98	0.98	94	94	80-120	0	15
Sulfate	mg/L	15.8	5	5	20.1	20.0	86	85	80-120	0	15

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	756870	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

METHOD BLANK:	3468900	Matrix:	Water
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/25/23 15:35	
Boron	ug/L	ND	100	11.4	10/25/23 15:35	
Calcium	ug/L	ND	1000	56.7	10/25/23 15:35	
Iron	ug/L	ND	100	18.1	10/25/23 15:35	
Lithium	ug/L	ND	20.0	5.1	10/25/23 15:35	
Magnesium	ug/L	ND	1000	32.8	10/25/23 15:35	
Manganese	ug/L	ND	10.0	1.1	10/25/23 15:35	
Molybdenum	ug/L	ND	10.0	1.1	10/25/23 15:35	
Potassium	ug/L	ND	1000	120	10/25/23 15:35	
Silica	ug/L	ND	450		10/25/23 15:35	N2
Sodium	ug/L	ND	1000	48.2	10/25/23 15:35	

LABORATORY CONTROL SAMPLE: 3468901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	80-120	
Boron	ug/L	1000	962	96	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Iron	ug/L	10000	9620	96	80-120	
Lithium	ug/L	1000	998	100	80-120	
Magnesium	ug/L	10000	9900	99	80-120	
Manganese	ug/L	1000	1040	104	80-120	
Molybdenum	ug/L	1000	986	99	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10500	99	80-120	N2
Sodium	ug/L	10000	9910	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468902 3468903

Parameter	Units	50356191006 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Aluminum	ug/L	ND	10000	10000	9680	9780	97	98	75-125	1	20	
Boron	ug/L	ND	1000	1000	1030	1040	96	97	75-125	1	20	
Calcium	ug/L	105000	10000	10000	111000	112000	56	69	75-125	1	20	P6
Iron	ug/L	ND	10000	10000	9360	9380	94	94	75-125	0	20	
Lithium	ug/L	ND	1000	1000	975	977	97	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468902 3468903													
Parameter	Units	50356191006		MS		MSD		3468903		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Magnesium	ug/L	26800	10000	10000	35100	35600	84	88	75-125	1	20		
Manganese	ug/L	ND	1000	1000	999	1010	100	100	75-125	1	20		
Molybdenum	ug/L	ND	1000	1000	976	979	98	98	75-125	0	20		
Potassium	ug/L	3740	10000	10000	13400	13300	96	95	75-125	1	20		
Silica	ug/L	15100	10700	10700	25100	25400	93	96	75-125	1	20	N2	
Sodium	ug/L	50700	10000	10000	57900	58400	72	77	75-125	1	20	P6	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	757412	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011		

METHOD BLANK:	3471680	Matrix:	Water
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/25/23 16:13	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/25/23 16:13	

LABORATORY CONTROL SAMPLE: 3471681						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1010	101	80-120	
Molybdenum, Dissolved	ug/L	1000	979	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471682												3471683	
Parameter	Units	50356191006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Manganese, Dissolved	ug/L	ND	1000	1000	1010	1030	101	103	75-125	2	20		
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	1030	101	103	75-125	2	20		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	756904	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

METHOD BLANK:	3469010	Matrix:	Water
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.080	10/13/23 06:03	
Arsenic	ug/L	ND	1.0	0.12	10/13/23 06:03	
Barium	ug/L	ND	1.0	0.065	10/13/23 06:03	
Cobalt	ug/L	ND	1.0	0.071	10/13/23 06:03	
Selenium	ug/L	ND	1.0	0.19	10/13/23 06:03	

LABORATORY CONTROL SAMPLE: 3469011						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.6	102	80-120	
Arsenic	ug/L	40	37.9	95	80-120	
Barium	ug/L	40	38.8	97	80-120	
Cobalt	ug/L	40	40.8	102	80-120	
Selenium	ug/L	40	39.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469012												3469013	
Parameter	Units	50356191006 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Antimony	ug/L	ND	40	40	40.5	40.7	101	102	75-125	1	20		
Arsenic	ug/L	ND	40	40	37.1	37.2	92	92	75-125	0	20		
Barium	ug/L	54.1	40	40	93.6	93.7	99	99	75-125	0	20		
Cobalt	ug/L	ND	40	40	37.6	37.5	94	93	75-125	0	20		
Selenium	ug/L	ND	40	40	38.4	38.8	94	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch: 757096

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356191005, 50356193001

METHOD BLANK: 3469783

Matrix: Water

Associated Lab Samples: 50356191005, 50356193001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/12/23 20:49	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/12/23 20:49	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/12/23 20:49	

LABORATORY CONTROL SAMPLE: 3469784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.6	97	90-110	

SAMPLE DUPLICATE: 3469785

Parameter	Units	50356208001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	166	169	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	154	156	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	12.0	13.2	10	20	

SAMPLE DUPLICATE: 3469786

Parameter	Units	50356208010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	317	323	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	317	296	7	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	27.2		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	757097	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191006, 50356191009, 50356191010, 50356191011		

METHOD BLANK:	3469788	Matrix:	Water
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191006, 50356191009, 50356191010, 50356191011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/12/23 20:27	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/12/23 20:27	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/12/23 20:27	

LABORATORY CONTROL SAMPLE: 3469789						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.4	99	90-110	

SAMPLE DUPLICATE: 3469790						
Parameter	Units	50356057002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	1930	1970	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	1930	1970	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3469791						
Parameter	Units	50356191006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	380	387	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	380	387	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	757684	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

METHOD BLANK:	3472376	Matrix:	Water
Associated Lab Samples:	50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/17/23 11:45	

LABORATORY CONTROL SAMPLE: 3472377						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3472378						
Parameter	Units	50356191006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	475	459	3	10	

SAMPLE DUPLICATE: 3472379						
Parameter	Units	50356208010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	382	366	4	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	757703	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356191001, 50356191002, 50356191003

METHOD BLANK: 3472435 Matrix: Water

Associated Lab Samples: 50356191001, 50356191002, 50356191003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/17/23 11:34	

LABORATORY CONTROL SAMPLE: 3472436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	275	92	80-120	

SAMPLE DUPLICATE: 3472437

Parameter	Units	50356176004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	986	986	0	10	

SAMPLE DUPLICATE: 3472438

Parameter	Units	50356188004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	706000 ug/L	740	5	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch: 758818

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356191001, 50356191002, 50356191003

SAMPLE DUPLICATE: 3477531

Parameter	Units	50355871005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	1	2	H3

SAMPLE DUPLICATE: 3477532

Parameter	Units	50356097003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.6	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch: 758916

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001

SAMPLE DUPLICATE: 3477993

Parameter	Units	50356191006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.2	1	2	H3

SAMPLE DUPLICATE: 3477994

Parameter	Units	50356305004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	757533	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

METHOD BLANK:	3471950	Matrix:	Water
Associated Lab Samples:	50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/16/23 14:38	

LABORATORY CONTROL SAMPLE: 3471951						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.55	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471952												3471953	
Parameter	Units	50356191006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Sulfide	mg/L	ND	0.5	0.5	0.51	0.54	101	107	90-110	6	20		

MATRIX SPIKE SAMPLE: 3471954											
Parameter	Units	50356314003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Sulfide	mg/L		ND	0.5	0.54	108	90-110				

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

QC Batch: 757930 Analysis Method: HACH 8146
 QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001

METHOD BLANK: 3473375 Matrix: Water
 Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 14:27	H3,N2

LABORATORY CONTROL SAMPLE: 3473376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	100	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473377 3473378

Parameter	Units	50356191006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	ND	1	1	0.99	1.0	99	101	90-110	3	20	H3,N2

MATRIX SPIKE SAMPLE: 3473379

Parameter	Units	50356303001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	101	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	756875	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356191002, 50356191004, 50356191006, 50356191011, 50356193001		

METHOD BLANK: 3468930 Matrix: Water
 Associated Lab Samples: 50356191002, 50356191004, 50356191006, 50356191011, 50356193001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/11/23 22:40	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/11/23 22:40	

LABORATORY CONTROL SAMPLE: 3468931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	100	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 3468932

Parameter	Units	50356016007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.53	1	1.6	108	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	98	90-110	

MATRIX SPIKE SAMPLE: 3468933

Parameter	Units	50356191006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	7.9	5	12.6	94	90-110	
Nitrogen, Nitrite	mg/L	ND	5	5.0	99	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	756876	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356191001, 50356191003, 50356191005, 50356191009, 50356191010		

METHOD BLANK: 3468935 Matrix: Water
 Associated Lab Samples: 50356191001, 50356191003, 50356191005, 50356191009, 50356191010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/11/23 23:34	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/11/23 23:34	

LABORATORY CONTROL SAMPLE: 3468936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	
Nitrogen, Nitrite	mg/L	1	1.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468937 3468938

Parameter	Units	50356191010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.78	1	1	1.8	1.8	103	104	90-110	0	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.0	1.0	100	100	90-110	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

QC Batch: 757911 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001

METHOD BLANK: 3473310 Matrix: Water
 Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/20/23 12:10	

LABORATORY CONTROL SAMPLE: 3473311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473312 3473313

Parameter	Units	50356191006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	0.15			1.6	1.6					1	

MATRIX SPIKE SAMPLE: 3473314

Parameter	Units	50356191010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		0.16		1.5		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356191

QC Batch: 757957 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004

METHOD BLANK: 3473485 Matrix: Water
 Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/18/23 14:19	

LABORATORY CONTROL SAMPLE: 3473486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473487 3473488

Parameter	Units	50356188004		50356188005		50356188006		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Total Organic Carbon	mg/L	14600 ug/L		40	40	49.1	48.3	86	84	80-120	2	20

MATRIX SPIKE SAMPLE: 3473489

Parameter	Units	50356188005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10700 ug/L	10	16.8	60	80-120	M0

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	757961	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

METHOD BLANK:	3473490	Matrix:	Water
Associated Lab Samples:	50356191005, 50356191006, 50356191009, 50356191010, 50356191011, 50356193001		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/18/23 19:42	

LABORATORY CONTROL SAMPLE: 3473491						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473492												3473493	
Parameter	Units	50356191006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Total Organic Carbon	mg/L	1.4	10	10	10.7	10.6	92	91	80-120	1	20		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	757962	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011

METHOD BLANK: 3473502 Matrix: Water

Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191009, 50356191010, 50356191011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/18/23 22:43	

LABORATORY CONTROL SAMPLE: 3473503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473504 3473505

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356191006 Result	Spike Conc.	Spike Conc.	Result						
Dissolved Organic Carbon	mg/L	2.8	10	10	11.1	10.9	83	81	80-120	2	20

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-1S **Lab ID: 50356191001** Collected: 10/11/23 12:15 Received: 10/11/23 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.310 ± 0.353 (0.861) C:NA T:78%	pCi/L	11/01/23 13:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.737 ± 0.425 (0.773) C:74% T:78%	pCi/L	10/25/23 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.737 ± 0.778 (1.63)	pCi/L	11/03/23 10:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.06 ± 0.597 (0.756) C:NA T:79%	pCi/L	11/01/23 13:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.596 ± 0.373 (0.684) C:74% T:79%	pCi/L	10/25/23 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.66 ± 0.970 (1.44)	pCi/L	11/03/23 10:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-1D **Lab ID: 50356191003** Collected: 10/11/23 13:50 Received: 10/11/23 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.727 ± 0.416 (0.382) C:NA T:81%	pCi/L	11/01/23 13:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.798 ± 0.398 (0.684) C:78% T:81%	pCi/L	10/25/23 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.53 ± 0.814 (1.07)	pCi/L	11/03/23 10:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0518 ± 0.393 (0.821) C:NA T:77%	pCi/L	11/01/23 13:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.600 ± 0.542 (1.11) C:60% T:77%	pCi/L	10/25/23 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.600 ± 0.935 (1.93)	pCi/L	11/03/23 10:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.60 ± 0.679 (0.730) C:NA T:75%	pCi/L	11/01/23 13:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.19 ± 0.510 (0.836) C:78% T:75%	pCi/L	10/25/23 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.79 ± 1.19 (1.57)	pCi/L	11/03/23 10:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-13S Lab ID: 50356191006 Collected: 10/11/23 10:55 Received: 10/11/23 16:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.264 ± 0.403 (0.693) C:NA T:81%	pCi/L	11/01/23 13:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.697 ± 0.429 (0.807) C:79% T:81%	pCi/L	10/25/23 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.961 ± 0.832 (1.50)	pCi/L	11/03/23 10:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-13S MS Lab ID: 50356191007 Collected: 10/11/23 10:55 Received: 10/11/23 16:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	102.89 %REC ± NA (NA) C:NA T:NA	pCi/L	11/01/23 13:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	76.12 %REC ± NA (NA) C:NA T:NA	pCi/L	10/25/23 12:10	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-13S MSD	Lab ID: 50356191008	Collected: 10/11/23 10:55	Received: 10/11/23 16:30	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	101.97 %REC 0.90RPD ± NA (NA) C:NA T:NA	pCi/L	11/01/23 13:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	73.40 %REC 3.63RPD ± NA (NA) C:NA T:NA	pCi/L	10/25/23 12:10	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: MW-131 **Lab ID: 50356191009** Collected: 10/11/23 12:10 Received: 10/11/23 16:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.212 ± 0.243 (0.144) C:NA T:78%	pCi/L	11/01/23 13:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.523 ± 0.391 (0.762) C:73% T:78%	pCi/L	10/25/23 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.735 ± 0.634 (0.906)	pCi/L	11/03/23 10:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-13D Lab ID: 50356191010 Collected: 10/11/23 13:45 Received: 10/11/23 16:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0448 ± 0.264 (0.538) C:NA T:81%	pCi/L	11/01/23 13:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.37 ± 0.529 (0.806) C:72% T:81%	pCi/L	10/25/23 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.41 ± 0.793 (1.34)	pCi/L	11/03/23 10:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: DUP 2 **Lab ID: 50356191011** Collected: 10/11/23 08:00 Received: 10/11/23 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.129 ± 0.326 (0.605) C:NA T:84%	pCi/L	11/01/23 13:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.123 ± 0.405 (0.912) C:72% T:84%	pCi/L	10/25/23 15:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.252 ± 0.731 (1.52)	pCi/L	11/03/23 10:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Sample: FB-4 **Lab ID: 50356193001** Collected: 10/11/23 10:00 Received: 10/11/23 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.256 (0.556) C:NA T:78%	pCi/L	11/01/23 13:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.555 ± 0.443 (0.882) C:76% T:78%	pCi/L	10/25/23 15:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.555 ± 0.699 (1.44)	pCi/L	11/03/23 10:57	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	622847	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: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191007, 50356191008, 50356191009, 50356191010, 50356191011, 50356193001

METHOD BLANK:	3035995	Matrix:	Water
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Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191007, 50356191008, 50356191009, 50356191010, 50356191011, 50356193001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0468 ± 0.214 (0.435) C:NA T:84%	pCi/L	11/01/23 13:38	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

QC Batch:	622848	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: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191007, 50356191008, 50356191009, 50356191010, 50356191011, 50356193001

METHOD BLANK:	3035997	Matrix:	Water
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Associated Lab Samples: 50356191001, 50356191002, 50356191003, 50356191004, 50356191005, 50356191006, 50356191007, 50356191008, 50356191009, 50356191010, 50356191011, 50356193001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0184 ± 0.289 (0.674) C:79% T:84%	pCi/L	10/25/23 12:09	

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

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QUALIFIERS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356191001	MW-1S	EPA 9056	758028		
50356191002	MW-1I	EPA 9056	758028		
50356191003	MW-1D	EPA 9056	758028		
50356191004	MW-12S	EPA 9056	758028		
50356191005	MW-12I	EPA 9056	758028		
50356191006	MW-13S	EPA 9056	758028		
50356191009	MW-13I	EPA 9056	758028		
50356191010	MW-13D	EPA 9056	758028		
50356191011	DUP 2	EPA 9056	758028		
50356193001	FB-4	EPA 9056	758028		
50356191001	MW-1S	EPA 3010	756870	EPA 6010	759097
50356191002	MW-1I	EPA 3010	756870	EPA 6010	759097
50356191003	MW-1D	EPA 3010	756870	EPA 6010	759097
50356191004	MW-12S	EPA 3010	756870	EPA 6010	759097
50356191005	MW-12I	EPA 3010	756870	EPA 6010	759097
50356191006	MW-13S	EPA 3010	756870	EPA 6010	759097
50356191009	MW-13I	EPA 3010	756870	EPA 6010	759097
50356191010	MW-13D	EPA 3010	756870	EPA 6010	759097
50356191011	DUP 2	EPA 3010	756870	EPA 6010	759097
50356193001	FB-4	EPA 3010	756870	EPA 6010	759097
50356191001	MW-1S	EPA 3010	757412	EPA 6010	759126
50356191002	MW-1I	EPA 3010	757412	EPA 6010	759126
50356191003	MW-1D	EPA 3010	757412	EPA 6010	759126
50356191004	MW-12S	EPA 3010	757412	EPA 6010	759126
50356191005	MW-12I	EPA 3010	757412	EPA 6010	759126
50356191006	MW-13S	EPA 3010	757412	EPA 6010	759126
50356191009	MW-13I	EPA 3010	757412	EPA 6010	759126
50356191010	MW-13D	EPA 3010	757412	EPA 6010	759126
50356191011	DUP 2	EPA 3010	757412	EPA 6010	759126
50356191001	MW-1S	EPA 200.2	756904	EPA 6020	757126
50356191002	MW-1I	EPA 200.2	756904	EPA 6020	757126
50356191003	MW-1D	EPA 200.2	756904	EPA 6020	757126
50356191004	MW-12S	EPA 200.2	756904	EPA 6020	757126
50356191005	MW-12I	EPA 200.2	756904	EPA 6020	757126
50356191006	MW-13S	EPA 200.2	756904	EPA 6020	757126
50356191009	MW-13I	EPA 200.2	756904	EPA 6020	757126
50356191010	MW-13D	EPA 200.2	756904	EPA 6020	757126
50356191011	DUP 2	EPA 200.2	756904	EPA 6020	757126
50356193001	FB-4	EPA 200.2	756904	EPA 6020	757126
50356191001	MW-1S	EPA 903.1	622847		
50356191002	MW-1I	EPA 903.1	622847		
50356191003	MW-1D	EPA 903.1	622847		
50356191004	MW-12S	EPA 903.1	622847		
50356191005	MW-12I	EPA 903.1	622847		
50356191006	MW-13S	EPA 903.1	622847		
50356191007	MW-13S MS	EPA 903.1	622847		
50356191008	MW-13S MSD	EPA 903.1	622847		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356191009	MW-13I	EPA 903.1	622847		
50356191010	MW-13D	EPA 903.1	622847		
50356191011	DUP 2	EPA 903.1	622847		
50356193001	FB-4	EPA 903.1	622847		
50356191001	MW-1S	EPA 904.0	622848		
50356191002	MW-1I	EPA 904.0	622848		
50356191003	MW-1D	EPA 904.0	622848		
50356191004	MW-12S	EPA 904.0	622848		
50356191005	MW-12I	EPA 904.0	622848		
50356191006	MW-13S	EPA 904.0	622848		
50356191007	MW-13S MS	EPA 904.0	622848		
50356191008	MW-13S MSD	EPA 904.0	622848		
50356191009	MW-13I	EPA 904.0	622848		
50356191010	MW-13D	EPA 904.0	622848		
50356191011	DUP 2	EPA 904.0	622848		
50356193001	FB-4	EPA 904.0	622848		
50356191001	MW-1S	Total Radium Calculation	627078		
50356191002	MW-1I	Total Radium Calculation	627078		
50356191003	MW-1D	Total Radium Calculation	627078		
50356191004	MW-12S	Total Radium Calculation	627078		
50356191005	MW-12I	Total Radium Calculation	627078		
50356191006	MW-13S	Total Radium Calculation	627078		
50356191009	MW-13I	Total Radium Calculation	627078		
50356191010	MW-13D	Total Radium Calculation	627078		
50356191011	DUP 2	Total Radium Calculation	627078		
50356193001	FB-4	Total Radium Calculation	627078		
50356191001	MW-1S	SM 2320B	757097		
50356191002	MW-1I	SM 2320B	757097		
50356191003	MW-1D	SM 2320B	757097		
50356191004	MW-12S	SM 2320B	757097		
50356191005	MW-12I	SM 2320B	757096		
50356191006	MW-13S	SM 2320B	757097		
50356191009	MW-13I	SM 2320B	757097		
50356191010	MW-13D	SM 2320B	757097		
50356191011	DUP 2	SM 2320B	757097		
50356193001	FB-4	SM 2320B	757096		
50356191001	MW-1S	SM 2540C	757703		
50356191002	MW-1I	SM 2540C	757703		
50356191003	MW-1D	SM 2540C	757703		
50356191004	MW-12S	SM 2540C	757684		
50356191005	MW-12I	SM 2540C	757684		
50356191006	MW-13S	SM 2540C	757684		
50356191009	MW-13I	SM 2540C	757684		
50356191010	MW-13D	SM 2540C	757684		
50356191011	DUP 2	SM 2540C	757684		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356193001	FB-4	SM 2540C	757684		
50356191001	MW-1S	SM 4500-H+B	758818		
50356191002	MW-1I	SM 4500-H+B	758818		
50356191003	MW-1D	SM 4500-H+B	758818		
50356191004	MW-12S	SM 4500-H+B	758916		
50356191005	MW-12I	SM 4500-H+B	758916		
50356191006	MW-13S	SM 4500-H+B	758916		
50356191009	MW-13I	SM 4500-H+B	758916		
50356191010	MW-13D	SM 4500-H+B	758916		
50356191011	DUP 2	SM 4500-H+B	758916		
50356193001	FB-4	SM 4500-H+B	758916		
50356191001	MW-1S	SM 4500-S2-D	757533		
50356191002	MW-1I	SM 4500-S2-D	757533		
50356191003	MW-1D	SM 4500-S2-D	757533		
50356191004	MW-12S	SM 4500-S2-D	757533		
50356191005	MW-12I	SM 4500-S2-D	757533		
50356191006	MW-13S	SM 4500-S2-D	757533		
50356191009	MW-13I	SM 4500-S2-D	757533		
50356191010	MW-13D	SM 4500-S2-D	757533		
50356191011	DUP 2	SM 4500-S2-D	757533		
50356193001	FB-4	SM 4500-S2-D	757533		
50356191001	MW-1S	HACH 8146	757930		
50356191002	MW-1I	HACH 8146	757930		
50356191003	MW-1D	HACH 8146	757930		
50356191004	MW-12S	HACH 8146	757930		
50356191005	MW-12I	HACH 8146	757930		
50356191006	MW-13S	HACH 8146	757930		
50356191009	MW-13I	HACH 8146	757930		
50356191010	MW-13D	HACH 8146	757930		
50356191011	DUP 2	HACH 8146	757930		
50356193001	FB-4	HACH 8146	757930		
50356191001	MW-1S	EPA 353.2	756876		
50356191002	MW-1I	EPA 353.2	756875		
50356191003	MW-1D	EPA 353.2	756876		
50356191004	MW-12S	EPA 353.2	756875		
50356191005	MW-12I	EPA 353.2	756876		
50356191006	MW-13S	EPA 353.2	756875		
50356191009	MW-13I	EPA 353.2	756876		
50356191010	MW-13D	EPA 353.2	756876		
50356191011	DUP 2	EPA 353.2	756875		
50356193001	FB-4	EPA 353.2	756875		
50356191001	MW-1S	EPA 365.1	757911	EPA 365.1	758408

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356191

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356191002	MW-1I	EPA 365.1	757911	EPA 365.1	758408
50356191003	MW-1D	EPA 365.1	757911	EPA 365.1	758408
50356191004	MW-12S	EPA 365.1	757911	EPA 365.1	758408
50356191005	MW-12I	EPA 365.1	757911	EPA 365.1	758408
50356191006	MW-13S	EPA 365.1	757911	EPA 365.1	758408
50356191009	MW-13I	EPA 365.1	757911	EPA 365.1	758408
50356191010	MW-13D	EPA 365.1	757911	EPA 365.1	758408
50356191011	DUP 2	EPA 365.1	757911	EPA 365.1	758408
50356193001	FB-4	EPA 365.1	757911	EPA 365.1	758408
50356191001	MW-1S	SM 5310C	757957		
50356191002	MW-1I	SM 5310C	757957		
50356191003	MW-1D	SM 5310C	757957		
50356191004	MW-12S	SM 5310C	757957		
50356191005	MW-12I	SM 5310C	757961		
50356191006	MW-13S	SM 5310C	757961		
50356191009	MW-13I	SM 5310C	757961		
50356191010	MW-13D	SM 5310C	757961		
50356191011	DUP 2	SM 5310C	757961		
50356193001	FB-4	SM 5310C	757961		
50356191001	MW-1S	SM 5310C	757962		
50356191002	MW-1I	SM 5310C	757962		
50356191003	MW-1D	SM 5310C	757962		
50356191004	MW-12S	SM 5310C	757962		
50356191005	MW-12I	SM 5310C	757962		
50356191006	MW-13S	SM 5310C	757962		
50356191009	MW-13I	SM 5310C	757962		
50356191010	MW-13D	SM 5310C	757962		
50356191011	DUP 2	SM 5310C	757962		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mu

WO#: 50356191

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pace>



50356191

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Atlas Indianapolis	Report To:	Mark Breting	Attention:	Accounts Payable - Paula Sedam
Address:	7988 Centerpoint Drive Suite 100, Indianapolis, IN 46256	Copy To:		Company Name:	Atlas Indianapolis
Email:	mark.breting@oneatlas.com	Purchase Order #:		Address:	
Phone:	317-313-8306	Project Name:	Eagle Valley October 2023	Pace Project Manager:	will.statz@pacelabs.com
Requested Due Date:	5nd	Project #:	170401502	Pace Profile #:	10498/46

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)											Regulatory Agency			State / Location																				
				DATE	TIME			DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N												Residual Chlorine (Y/N)																			
1	MW1S				10-11	1215		11	3	3	4										X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	01									
2	MW1I				10-11	1100																																				002								
3	MW1D				10-11	1350																																					003							
4	MW-10S				10/11	1105																																						004						
5	MW-121				10/11	1400																																						005						
6	MW-13S				10/11	1055																																							006					
7	MW-131				10/11	1210																																							007					
8	MW-13D				10/11	1345																																								008				
9	ms-2				10/11	1055																																												
10	msd-2				10/11	1055																																												
11																																																		
12																																																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours 6020 - Co, As, Se, Sb, Ba (5) 6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, sila (11) 6010 Dis - Mn, Mo (2)	Atlas	10/11/23	1630		10-11-23	16:30	see sur	y	n	y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples contact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
		DATE Signed:	10.11.23		



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 10-11-23 17:25

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

4. Cooler Temperature(s): see comments _____
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO₃</u>	✓		Circle: <u>HNO₃ (<2)</u> <u>H₂SO₄ (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	✓		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		✓	Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS: Temps: 0.1/0.1, 1.9/1.9, 0.4/0.4, 0.4/0.4, 0.1/0.1, 0.2/0.2 RC 10-11-23 DUP2 samples recvd
not on COC D: 10-11-23 RC 10-11-23



February 08, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356303

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356303

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50356303001	MW-4S	Water	10/12/23 10:38	10/12/23 16:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356303001	MW-4S	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356303001	MW-4S					
EPA 9056	Chloride	463	mg/L	25.0	10/24/23 12:42	
EPA 9056	Fluoride	0.25	mg/L	0.10	10/24/23 12:25	
EPA 9056	Sulfate	1490	mg/L	25.0	10/24/23 12:42	
EPA 6010	Boron	6090	ug/L	100	10/25/23 14:48	
EPA 6010	Calcium	495000	ug/L	5000	10/25/23 15:24	
EPA 6010	Lithium	156	ug/L	20.0	10/25/23 14:48	
EPA 6010	Magnesium	122000	ug/L	1000	10/25/23 14:48	
EPA 6010	Manganese	491	ug/L	10.0	10/25/23 14:48	
EPA 6010	Molybdenum	126	ug/L	10.0	10/25/23 14:48	
EPA 6010	Potassium	23900	ug/L	1000	10/25/23 14:48	
EPA 6010	Silica	30400	ug/L	450	10/25/23 14:48	N2
EPA 6010	Sodium	378000	ug/L	5000	10/25/23 15:24	
EPA 6010	Manganese, Dissolved	535	ug/L	10.0	10/25/23 16:37	
EPA 6010	Molybdenum, Dissolved	141	ug/L	10.0	10/25/23 16:37	
EPA 6020	Arsenic	4.7	ug/L	1.0	10/17/23 04:14	
EPA 6020	Barium	93.0	ug/L	1.0	10/17/23 04:14	
EPA 6020	Selenium	3.8	ug/L	1.0	10/17/23 04:14	
EPA 903.1	Radium-226	0.0448 ± 0.382 (0.746)	pCi/L		11/06/23 14:20	
EPA 904.0	Radium-228	C:NA T:81% 0.152 ± 0.336 (0.745)	pCi/L		10/25/23 14:35	
		C:84% T:81%				
Total Radium Calculation	Total Radium	0.197 ± 0.718 (1.49)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	246	mg/L	10.0	10/13/23 23:08	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	246	mg/L	10.0	10/13/23 23:08	
SM 2540C	Total Dissolved Solids	3640	mg/L	40.0	10/18/23 11:47	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/24/23 16:45	H3
EPA 353.2	Nitrogen, Nitrate	2.7	mg/L	0.10	10/12/23 23:29	
EPA 365.1	Phosphate as P04	1.5	mg/L	0.15	10/25/23 16:57	
SM 5310C	Total Organic Carbon	4.2	mg/L	4.0	10/19/23 10:49	
SM 5310C	Dissolved Organic Carbon	4.4	mg/L	4.0	10/19/23 11:15	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

Sample: MW-4S **Lab ID: 50356303001** Collected: 10/12/23 10:38 Received: 10/12/23 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	463	mg/L	25.0	6.7	100		10/24/23 12:42	16887-00-6	
Fluoride	0.25	mg/L	0.10	0.017	1		10/24/23 12:25	16984-48-8	
Sulfate	1490	mg/L	25.0	19.0	100		10/24/23 12:42	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 14:48	7429-90-5	
Boron	6090	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 14:48	7440-42-8	
Calcium	495000	ug/L	5000	284	5	10/16/23 15:24	10/25/23 15:24	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 14:48	7439-89-6	
Lithium	156	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 14:48	7439-93-2	
Magnesium	122000	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 14:48	7439-95-4	
Manganese	491	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 14:48	7439-96-5	
Molybdenum	126	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 14:48	7439-98-7	
Potassium	23900	ug/L	1000	120	1	10/16/23 15:24	10/25/23 14:48	7440-09-7	
Silica	30400	ug/L	450		1	10/16/23 15:24	10/25/23 14:48	7631-86-9	N2
Sodium	378000	ug/L	5000	241	5	10/16/23 15:24	10/25/23 15:24	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	535	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:37	7439-96-5	
Molybdenum, Dissolved	141	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:37	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:14	7440-36-0	
Arsenic	4.7	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:14	7440-38-2	
Barium	93.0	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:14	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:14	7440-48-4	
Selenium	3.8	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:14	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	246	mg/L	10.0	10.0	1		10/13/23 23:08		
Alkalinity,Bicarbonate (CaCO3)	246	mg/L	10.0	10.0	1		10/13/23 23:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 23:08		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	3640	mg/L	40.0	40.0	1		10/18/23 11:47		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		10/24/23 16:45		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

Sample: MW-4S		Lab ID: 50356303001		Collected: 10/12/23 10:38	Received: 10/12/23 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 14:38	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:52	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	2.7	mg/L	0.10	0.011	1		10/12/23 23:29	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/12/23 23:29	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	1.5	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 16:57			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	4.2	mg/L	4.0	0.94	4		10/19/23 10:49	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	4.4	mg/L	4.0	0.94	4		10/19/23 11:15			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch:	758627	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3476995 Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/24/23 18:36	
Fluoride	mg/L	ND	0.10	0.017	10/24/23 18:36	
Sulfate	mg/L	ND	0.25	0.19	10/24/23 18:36	

LABORATORY CONTROL SAMPLE: 3476996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	94	80-120	
Fluoride	mg/L	1	0.96	96	80-120	
Sulfate	mg/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3476997 3476998

Parameter	Units	50356461002		50356461004		3476997		3476998		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	5240	2500	2500	8010	8000	111	111	80-120	0	15		
Fluoride	mg/L	0.47J	10	10	9.2	9.3	88	88	80-120	1	15		
Sulfate	mg/L	436	5000	5000	4990	5080	91	93	80-120	2	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3476999 3477000

Parameter	Units	50356461004		50356461004		3476999		3477000		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	1160	250	250	1450	1450	115	115	80-120	0	15		
Fluoride	mg/L	0.32	10	10	9.6	9.5	93	92	80-120	1	15		
Sulfate	mg/L	57.6	50	50	98.3	97.9	81	81	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: Eagle Valley October 2023 P1R1
Pace Project No.: 50356303

QC Batch: 757116 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3469895 Matrix: Water
Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/25/23 14:21	
Boron	ug/L	ND	100	11.4	10/25/23 14:21	
Calcium	ug/L	ND	1000	56.7	10/25/23 14:21	
Iron	ug/L	ND	100	18.1	10/25/23 14:21	
Lithium	ug/L	ND	20.0	5.1	10/25/23 14:21	
Magnesium	ug/L	ND	1000	32.8	10/25/23 14:21	
Manganese	ug/L	ND	10.0	1.1	10/25/23 14:21	
Molybdenum	ug/L	ND	10.0	1.1	10/25/23 14:21	
Potassium	ug/L	ND	1000	120	10/25/23 14:21	
Silica	ug/L	ND	450		10/25/23 14:21	N2
Sodium	ug/L	ND	1000	48.2	10/25/23 14:21	

LABORATORY CONTROL SAMPLE: 3469896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	80-120	
Boron	ug/L	1000	969	97	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Iron	ug/L	10000	9680	97	80-120	
Lithium	ug/L	1000	1000	100	80-120	
Magnesium	ug/L	10000	9900	99	80-120	
Manganese	ug/L	1000	1040	104	80-120	
Molybdenum	ug/L	1000	983	98	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10600	99	80-120	N2
Sodium	ug/L	10000	9970	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469897 3469898

Parameter	Units	50356224004		3469897		3469898		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Aluminum	ug/L	<0.079 mg/L	10000	10000	9910	9870	99	98	99	98	75-125	0	20	
Boron	ug/L	0.69 mg/L	1000	1000	1700	1720	101	102	101	102	75-125	1	20	
Calcium	ug/L	37.6 mg/L	10000	10000	46800	47600	92	100	92	100	75-125	2	20	
Iron	ug/L	<0.018 mg/L	10000	10000	9720	9710	97	97	97	97	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

Parameter	Units	50356224004		3469897		3469898		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Lithium	ug/L	<0.0051 mg/L	1000	1000	986	989	98	99	75-125	0	20			
Magnesium	ug/L	21.1 mg/L	10000	10000	30400	30700	93	96	75-125	1	20			
Manganese	ug/L	0.0014J mg/L	1000	1000	1040	1040	104	104	75-125	0	20			
Molybdenum	ug/L	0.0034J mg/L	1000	1000	998	999	99	100	75-125	0	20			
Potassium	ug/L	0.73J mg/L	10000	10000	10700	10700	100	100	75-125	0	20			
Silica	ug/L	34.3 mg/L	10700	10700	44700	45400	97	103	75-125	1	20	N2		
Sodium	ug/L	294 mg/L	10000	10000	303000	310000	90	163	75-125	2	20	P6		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 757412	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3471680 Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/25/23 16:13	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/25/23 16:13	

LABORATORY CONTROL SAMPLE: 3471681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1010	101	80-120	
Molybdenum, Dissolved	ug/L	1000	979	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471682 3471683

Parameter	Units	50356191006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	ND	1000	1000	1010	1030	101	103	75-125	2	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	1030	101	103	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch:	757228	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3470412 Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.080	10/17/23 04:07	
Arsenic	ug/L	ND	1.0	0.12	10/17/23 04:07	
Barium	ug/L	ND	1.0	0.065	10/17/23 04:07	
Cobalt	ug/L	ND	1.0	0.071	10/17/23 04:07	
Selenium	ug/L	ND	1.0	0.19	10/17/23 04:07	

LABORATORY CONTROL SAMPLE: 3470413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.4	103	80-120	
Arsenic	ug/L	40	38.5	96	80-120	
Barium	ug/L	40	39.6	99	80-120	
Cobalt	ug/L	40	40.2	101	80-120	
Selenium	ug/L	40	38.1	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470414 3470415

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356314008 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	42.8	42.9	107	107	75-125	0	20
Arsenic	ug/L	ND	40	40	39.4	39.5	93	93	75-125	0	20
Barium	ug/L	222	40	40	261	263	96	102	75-125	1	20 E
Cobalt	ug/L	ND	40	40	37.5	37.4	93	93	75-125	0	20
Selenium	ug/L	ND	40	40	37.4	37.7	93	94	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 757339

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3471019

Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/13/23 23:08	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/13/23 23:08	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/13/23 23:08	

LABORATORY CONTROL SAMPLE: 3471020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.8	98	90-110	

SAMPLE DUPLICATE: 3471021

Parameter	Units	50356232001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	148	150	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	148	150	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3471022

Parameter	Units	50356322003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	353	358	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	353	358	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 757915

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3473327

Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/18/23 11:46	

LABORATORY CONTROL SAMPLE: 3473328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	295	98	80-120	

SAMPLE DUPLICATE: 3473329

Parameter	Units	50356278005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND			10 PL

SAMPLE DUPLICATE: 3473330

Parameter	Units	50356314008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	908	862	5	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 758916

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

SAMPLE DUPLICATE: 3477993

Parameter	Units	50356191006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.2	1	2	H3

SAMPLE DUPLICATE: 3477994

Parameter	Units	50356305004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 757533	Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D	Analysis Description: 4500S2D Sulfide Water
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3471950 Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/16/23 14:38	

LABORATORY CONTROL SAMPLE: 3471951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.55	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471952 3471953

Parameter	Units	50356191006		3471952		3471953		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfide	mg/L	ND	ND	0.5	0.5	0.51	0.54	101	107	90-110	6	20

MATRIX SPIKE SAMPLE: 3471954

Parameter	Units	50356314003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.54	108	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 757930	Analysis Method: HACH 8146
QC Batch Method: HACH 8146	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3473375 Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 14:27	H3,N2

LABORATORY CONTROL SAMPLE: 3473376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	100	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473377 3473378

Parameter	Units	50356191006		3473377		3473378		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Iron, Ferrous	mg/L	ND	ND	1	1	0.99	1.0	99	101	90-110	3 20	H3,N2

MATRIX SPIKE SAMPLE: 3473379

Parameter	Units	50356303001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	101	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch:	757118	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3469903 Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/12/23 22:43	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/12/23 22:43	

LABORATORY CONTROL SAMPLE: 3469904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.99	99	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 3469905

Parameter	Units	50356214003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	0.99	99	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 3469906

Parameter	Units	50356278002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.84	1	1.9	103	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	98	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch:	758971	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3478293 Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/25/23 16:56	

LABORATORY CONTROL SAMPLE: 3478294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3478295 3478296

Parameter	Units	50356303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	1.5			2.9	2.9				2		

MATRIX SPIKE SAMPLE: 3478297

Parameter	Units	50356305003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		ND	1.6			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 757961	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Total Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3473490 Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/18/23 19:42	

LABORATORY CONTROL SAMPLE: 3473491

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473492 3473493

Parameter	Units	50356191006		3473493		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/L	1.4	10	10.7	10.6	92	91	80-120	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 757962	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356303001

METHOD BLANK: 3473502 Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/18/23 22:43	

LABORATORY CONTROL SAMPLE: 3473503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473504 3473505

Parameter	Units	50356191006		3473505		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Dissolved Organic Carbon	mg/L	2.8	10	11.1	10.9	83	81	80-120	2	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

Sample: MW-4S **Lab ID: 50356303001** Collected: 10/12/23 10:38 Received: 10/12/23 16:40 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0448 ± 0.382 (0.746) C:NA T:81%	pCi/L	11/06/23 14:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.152 ± 0.336 (0.745) C:84% T:81%	pCi/L	10/25/23 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.197 ± 0.718 (1.49)	pCi/L	11/06/23 16:20	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 622866

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: 50356303001

METHOD BLANK: 3036041

Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.391 ± 0.328 (0.652) C:83% T:83%	pCi/L	10/25/23 11:31	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

QC Batch: 622864

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: 50356303001

METHOD BLANK: 3036039

Matrix: Water

Associated Lab Samples: 50356303001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0866 ± 0.240 (0.466) C:NA T:83%	pCi/L	11/06/23 14:04	

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QUALIFIERS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356303

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356303001	MW-4S	EPA 9056	758627		
50356303001	MW-4S	EPA 3010	757116	EPA 6010	759081
50356303001	MW-4S	EPA 3010	757412	EPA 6010	759126
50356303001	MW-4S	EPA 200.2	757228	EPA 6020	757433
50356303001	MW-4S	EPA 903.1	622864		
50356303001	MW-4S	EPA 904.0	622866		
50356303001	MW-4S	Total Radium Calculation	627629		
50356303001	MW-4S	SM 2320B	757339		
50356303001	MW-4S	SM 2540C	757915		
50356303001	MW-4S	SM 4500-H+B	758916		
50356303001	MW-4S	SM 4500-S2-D	757533		
50356303001	MW-4S	HACH 8146	757930		
50356303001	MW-4S	EPA 353.2	757118		
50356303001	MW-4S	EPA 365.1	758971	EPA 365.1	759186
50356303001	MW-4S	SM 5310C	757961		
50356303001	MW-4S	SM 5310C	757962		

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CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOCUMENT

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions.

W0# : 50356303
Barcode
50356303

ms.pdf.
/ Of /

Section A Required Client Information:
Section B Required Project Information:
Section C Invoice Information:
Company: Atlas Indianapolis
Report To: Mark Breting
Attention: Accounts Payable - Paula Sedam
Address: 7988 Centerpoint Drive
Copy To:
Company Name: Atlas Indianapolis
Suite 100, Indianapolis, IN 46256
Purchase Order #:
Address:
Email: mark.breting@oneatlas.com
Project Name: Eagle Valley October 2023
Pace Quote:
Phone: 317-313-8306 Fax
Project #: 1704E01507
Pace Project Manager: will.statz@pacelabs.com
Requested Due Date:
Pace Profile #: 10498/46

Table with columns: ITEM #, MATRIX CODE, COLLECTED (START/END), PRESERVATIVES, ANALYSES TEST, REQUESTED ANALYSIS FILTERED (Y/N), SAMPLE CONDITIONS. Row 1 contains handwritten data: MW-45, WG 10/12/23, 1038, 11 3 2 4 1, and various test results marked with X.

Profile 1 Report 1

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: B. G. Happer
SIGNATURE of SAMPLER: [Signature]
DATE Signed: 10-12-23



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/17/23 18:09 JG

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

4. Cooler Temperature(s): 2.0/1.9

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		—	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>Nitrate, Nitrite</u>	—		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	—		
Time 5035A TC placed in Freezer or Short Holds To Lab Time:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		—	Residual Chlorine Check (Total/Amenable/Free Cyanide)			—
Custody Signatures Present?	—		Headspace Wisconsin Sulfide?			—
Containers Intact?:	—		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	—		Trip Blank Present?		—	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			—

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFCU	WGKU	BG1U	MeOH (only)		VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS					PLASTIC					OTHER			Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ZnAc Black									
				SBS	DI					R	DG9H	VG9H	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U						BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit
				HNO3 <2	H2SO4 <2					NaOH >10	NaOH/Zn Ac >9																									
1														1	1												WT	✓	✓		✓					
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

Container Codes

Glass			
DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKL	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFL	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic			
BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic	Miscellaneous	
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic	Syringe Kit	LL Cr+6 sampling kit
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic	R	Terracore Kit
BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Sodium Thiosulfate
BP3B	250mL NaOH plastic	GN	General Container
BP3N	250mL HNO3 plastic	U	Summa Can (air sample)
BP3F	250mL HNO3 plastic-field filtered	WT	Water
BP3U	250mL unpreserved plastic	SL	Solid
BP3S	250mL H2SO4 plastic	OL	Oil
BP3Z	250mL NaOH, ZnAc plastic	NAL	Non-aqueous liquid
BP3R	250mL Unpres. FF SO4/OH buffer	WP	Wipe



January 26, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R2
Pace Project No.: 50356305

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

This revised report replaces the version generated on 11/6/23. Dissolved Metals data for samples -001 and -002 were switched. WHS 11/10/23

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50356305001	MW-15S	Water	10/12/23 11:05	10/12/23 16:40
50356305002	MW-15I	Water	10/12/23 13:00	10/12/23 16:40
50356305003	MW-15D	Water	10/12/23 14:35	10/12/23 16:40
50356305004	MW-16S	Water	10/12/23 11:10	10/12/23 16:40
50356305005	MW-16I	Water	10/12/23 12:30	10/12/23 16:40
50356305006	MW-25I	Water	10/12/23 13:40	10/12/23 16:40
50356305007	MW-25D	Water	10/12/23 11:35	10/12/23 16:40
50356305008	DUP-5	Water	10/12/23 08:00	10/12/23 16:40
50356305009	DUP-6	Water	10/12/23 08:00	10/12/23 16:40

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356305001	MW-15S	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50356305002	MW-15I	EPA 9056	ADM
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	DMT			5	PASI-I
EPA 903.1	MAR1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	BEP			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50356305003	MW-15D			EPA 9056	ADM
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356305004	MW-16S	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
SM 4500-H+B	LHZ	1	PASI-I		
SM 4500-S2-D	BEP	1	PASI-I		
HACH 8146	STS	1	PASI-I		
EPA 353.2	DAW	2	PASI-I		
EPA 365.1	YAM	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
SM 5310C	ATS	1	PASI-I		
50356305005	MW-16I	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50356305006	MW-25I	SM 4500-S2-D	BEP	1	PASI-I		
		HACH 8146	STS	1	PASI-I		
		EPA 353.2	DAW	2	PASI-I		
		EPA 365.1	YAM	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		SM 5310C	ATS	1	PASI-I		
		EPA 9056	ADM	3	PASI-I		
		EPA 6010	MTM	11	PASI-I		
		EPA 6010	MTM	2	PASI-I		
		EPA 6020	DMT	5	PASI-I		
		EPA 903.1	MAR1	1	PASI-PA		
		EPA 904.0	ZPC	1	PASI-PA		
		Total Radium Calculation	JAL	1	PASI-PA		
		SM 2320B	DAW	3	PASI-I		
		SM 2540C	IRH	1	PASI-I		
		SM 4500-H+B	LHZ	1	PASI-I		
		SM 4500-S2-D	BEP	1	PASI-I		
		HACH 8146	STS	1	PASI-I		
		50356305007	MW-25D	EPA 353.2	DAW	2	PASI-I
				EPA 365.1	YAM	1	PASI-I
SM 5310C	ATS			1	PASI-I		
SM 5310C	ATS			1	PASI-I		
EPA 9056	ADM			3	PASI-I		
EPA 6010	MTM			11	PASI-I		
EPA 6010	MTM			2	PASI-I		
EPA 6020	DMT			5	PASI-I		
EPA 903.1	MAR1			1	PASI-PA		
EPA 904.0	ZPC			1	PASI-PA		
Total Radium Calculation	JAL			1	PASI-PA		
SM 2320B	DAW			3	PASI-I		
SM 2540C	IRH			1	PASI-I		
SM 4500-H+B	RJP			1	PASI-I		
SM 4500-S2-D	BEP			1	PASI-I		
HACH 8146	STS			1	PASI-I		
EPA 353.2	DAW			2	PASI-I		
EPA 365.1	YAM			1	PASI-I		
SM 5310C	ATS			1	PASI-I		

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356305008	DUP-5	SM 5310C	ATS	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	DMT	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50356305009	DUP-6	SM 5310C	ATS
EPA 9056	ADM			3	PASI-I
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	DMT			5	PASI-I
EPA 903.1	MAR1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	RJP			1	PASI-I
SM 4500-S2-D	BEP			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis
 PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2
Pace Project No.: 50356305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356305001	MW-15S					
EPA 9056	Chloride	22.1	mg/L	0.25	10/19/23 23:51	
EPA 9056	Fluoride	0.31	mg/L	0.10	10/19/23 23:51	
EPA 9056	Sulfate	26.3	mg/L	0.25	10/19/23 23:51	
EPA 6010	Boron	1190	ug/L	100	10/25/23 14:50	
EPA 6010	Calcium	106000	ug/L	1000	10/25/23 14:50	
EPA 6010	Lithium	52.5	ug/L	20.0	10/25/23 14:50	
EPA 6010	Magnesium	26600	ug/L	1000	10/25/23 14:50	
EPA 6010	Molybdenum	67.7	ug/L	10.0	10/25/23 14:50	
EPA 6010	Potassium	5530	ug/L	1000	10/25/23 14:50	
EPA 6010	Silica	13000	ug/L	450	10/25/23 14:50	N2
EPA 6010	Sodium	17100	ug/L	1000	10/25/23 14:50	
EPA 6010	Molybdenum, Dissolved	72.6	ug/L	10.0	10/25/23 16:40	
EPA 6020	Barium	65.4	ug/L	1.0	10/17/23 04:17	
EPA 6020	Selenium	1.5	ug/L	1.0	10/17/23 04:17	
EPA 903.1	Radium-226	0.135 ± 0.234 (0.418)	pCi/L		11/06/23 14:04	
EPA 904.0	Radium-228	0.639 ± 0.390 (0.723)	pCi/L		10/25/23 11:26	
		C:NA T:81%				
		C:84%				
		T:81%				
Total Radium Calculation	Total Radium	0.774 ± 0.624 (1.14)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	326	mg/L	10.0	10/13/23 21:00	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	326	mg/L	10.0	10/13/23 21:00	
SM 2540C	Total Dissolved Solids	411	mg/L	10.0	10/18/23 11:48	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/24/23 16:46	H3
EPA 353.2	Nitrogen, Nitrate	6.6	mg/L	0.50	10/12/23 23:59	
EPA 365.1	Phosphate as P04	0.25	mg/L	0.15	10/25/23 16:59	
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	10/18/23 22:03	
SM 5310C	Dissolved Organic Carbon	3.8	mg/L	1.0	10/19/23 18:11	
50356305002	MW-15I					
EPA 9056	Chloride	62.9	mg/L	2.5	10/20/23 04:09	
EPA 9056	Fluoride	0.35	mg/L	0.10	10/20/23 03:52	
EPA 9056	Sulfate	223	mg/L	2.5	10/20/23 04:09	
EPA 6010	Boron	5980	ug/L	100	10/25/23 14:51	
EPA 6010	Calcium	97800	ug/L	1000	10/25/23 14:51	
EPA 6010	Lithium	103	ug/L	20.0	10/25/23 14:51	
EPA 6010	Magnesium	22400	ug/L	1000	10/25/23 14:51	
EPA 6010	Manganese	67.3	ug/L	10.0	10/25/23 14:51	
EPA 6010	Molybdenum	281	ug/L	10.0	10/25/23 14:51	
EPA 6010	Potassium	10200	ug/L	1000	10/25/23 14:51	
EPA 6010	Silica	11200	ug/L	450	10/25/23 14:51	N2
EPA 6010	Sodium	107000	ug/L	1000	10/25/23 14:51	
EPA 6010	Manganese, Dissolved	75.8	ug/L	10.0	10/25/23 16:39	
EPA 6010	Molybdenum, Dissolved	320	ug/L	10.0	10/25/23 16:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356305002	MW-15I					
EPA 6020	Barium	60.0	ug/L	1.0	10/17/23 04:20	
EPA 903.1	Radium-226	0.433 ± 0.543 (0.902) C:NA T:76%	pCi/L		11/06/23 14:04	
EPA 904.0	Radium-228	0.981 ± 0.539 (0.990) C:80% T:76%	pCi/L		10/25/23 11:26	
Total Radium Calculation	Total Radium	1.41 ± 1.08 (1.89)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	263	mg/L	10.0	10/13/23 21:00	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	263	mg/L	10.0	10/13/23 21:00	
SM 2540C	Total Dissolved Solids	686	mg/L	10.0	10/18/23 11:48	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/24/23 16:47	H3
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	10/18/23 22:13	
SM 5310C	Dissolved Organic Carbon	1.9	mg/L	1.0	10/19/23 18:52	
50356305003	MW-15D					
EPA 9056	Chloride	124	mg/L	2.5	10/20/23 04:43	
EPA 9056	Fluoride	0.21	mg/L	0.10	10/20/23 04:26	
EPA 9056	Sulfate	182	mg/L	2.5	10/20/23 04:43	
EPA 6010	Boron	4590	ug/L	100	10/25/23 14:59	
EPA 6010	Calcium	94700	ug/L	1000	10/25/23 14:59	
EPA 6010	Iron	185	ug/L	100	10/25/23 14:59	
EPA 6010	Lithium	77.4	ug/L	20.0	10/25/23 14:59	
EPA 6010	Magnesium	17800	ug/L	1000	10/25/23 14:59	
EPA 6010	Manganese	386	ug/L	10.0	10/25/23 14:59	
EPA 6010	Molybdenum	175	ug/L	10.0	10/25/23 14:59	
EPA 6010	Potassium	6370	ug/L	1000	10/25/23 14:59	
EPA 6010	Silica	11700	ug/L	450	10/25/23 14:59	N2
EPA 6010	Sodium	96900	ug/L	1000	10/25/23 14:59	
EPA 6010	Manganese, Dissolved	417	ug/L	10.0	10/25/23 16:42	
EPA 6010	Molybdenum, Dissolved	191	ug/L	10.0	10/25/23 16:42	
EPA 6020	Barium	49.6	ug/L	1.0	10/17/23 04:31	
EPA 903.1	Radium-226	0.191 ± 0.439 (0.794) C:NA T:77%	pCi/L		11/06/23 14:04	
EPA 904.0	Radium-228	0.894 ± 0.416 (0.688) C:84% T:77%	pCi/L		10/25/23 11:26	
Total Radium Calculation	Total Radium	1.09 ± 0.855 (1.48)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	187	mg/L	10.0	10/13/23 21:00	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	187	mg/L	10.0	10/13/23 21:00	
SM 2540C	Total Dissolved Solids	645	mg/L	10.0	10/18/23 11:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356305003	MW-15D					
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	10/24/23 16:48	H3
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	10/18/23 22:30	
SM 5310C	Dissolved Organic Carbon	1.7	mg/L	1.0	10/19/23 19:02	
50356305004	MW-16S					
EPA 9056	Chloride	110	mg/L	2.5	10/20/23 05:52	
EPA 9056	Fluoride	0.30	mg/L	0.10	10/20/23 05:35	
EPA 9056	Sulfate	94.3	mg/L	2.5	10/20/23 05:52	
EPA 6010	Boron	253	ug/L	100	10/25/23 15:01	
EPA 6010	Calcium	82700	ug/L	1000	10/25/23 15:01	
EPA 6010	Iron	135	ug/L	100	10/25/23 15:01	
EPA 6010	Lithium	43.8	ug/L	20.0	10/25/23 15:01	
EPA 6010	Magnesium	21900	ug/L	1000	10/25/23 15:01	
EPA 6010	Manganese	1760	ug/L	10.0	10/25/23 15:01	
EPA 6010	Molybdenum	67.9	ug/L	10.0	10/25/23 15:01	
EPA 6010	Potassium	7290	ug/L	1000	10/25/23 15:01	
EPA 6010	Silica	12000	ug/L	450	10/25/23 15:01	N2
EPA 6010	Sodium	89500	ug/L	1000	10/25/23 15:01	
EPA 6010	Manganese, Dissolved	402	ug/L	10.0	10/25/23 16:43	
EPA 6010	Molybdenum, Dissolved	60.8	ug/L	10.0	10/25/23 16:43	
EPA 6020	Barium	83.7	ug/L	1.0	10/17/23 04:34	
EPA 6020	Cobalt	1.0	ug/L	1.0	10/17/23 04:34	
EPA 903.1	Radium-226	0.440 ± 0.426 (0.667)	pCi/L		11/06/23 14:04	
EPA 904.0	Radium-228	C:NA T:89% 0.258 ± 0.329 (0.699)	pCi/L		10/25/23 11:27	
		C:77% T:89%				
Total Radium Calculation	Total Radium	0.698 ± 0.755 (1.37)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	254	mg/L	10.0	10/13/23 21:00	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	254	mg/L	10.0	10/13/23 21:00	
SM 2540C	Total Dissolved Solids	552	mg/L	10.0	10/18/23 11:48	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	10/24/23 16:49	H3
EPA 353.2	Nitrogen, Nitrate	0.32	mg/L	0.10	10/13/23 00:01	
SM 5310C	Total Organic Carbon	1.5	mg/L	1.0	10/21/23 02:07	
SM 5310C	Dissolved Organic Carbon	2.0	mg/L	1.0	10/19/23 19:12	
50356305005	MW-16I					
EPA 9056	Chloride	96.2	mg/L	2.5	10/20/23 06:26	
EPA 9056	Fluoride	0.32	mg/L	0.10	10/20/23 06:09	
EPA 9056	Sulfate	73.7	mg/L	2.5	10/20/23 06:26	
EPA 6010	Boron	185	ug/L	100	10/25/23 15:03	
EPA 6010	Calcium	72400	ug/L	1000	10/25/23 15:03	
EPA 6010	Lithium	54.7	ug/L	20.0	10/25/23 15:03	
EPA 6010	Magnesium	22700	ug/L	1000	10/25/23 15:03	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2
Pace Project No.: 50356305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356305005	MW-16I					
EPA 6010	Manganese	93.8	ug/L	10.0	10/25/23 15:03	
EPA 6010	Molybdenum	93.5	ug/L	10.0	10/25/23 15:03	
EPA 6010	Potassium	7250	ug/L	1000	10/25/23 15:03	
EPA 6010	Silica	10900	ug/L	450	10/25/23 15:03	N2
EPA 6010	Sodium	64100	ug/L	1000	10/25/23 15:03	
EPA 6010	Manganese, Dissolved	93.6	ug/L	10.0	10/25/23 16:45	
EPA 6010	Molybdenum, Dissolved	95.0	ug/L	10.0	10/25/23 16:45	
EPA 6020	Barium	65.3	ug/L	1.0	10/17/23 04:37	
EPA 903.1	Radium-226	0.245 ± 0.441 (0.777)	pCi/L		11/06/23 14:04	
EPA 904.0	Radium-228	C:NA T:79% 0.990 ± 0.438 (0.717)	pCi/L		10/25/23 11:27	
		C:86% T:79%				
Total Radium Calculation	Total Radium	1.24 ± 0.879 (1.49)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	211	mg/L	10.0	10/13/23 21:00	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	211	mg/L	10.0	10/13/23 21:00	
SM 2540C	Total Dissolved Solids	463	mg/L	10.0	10/18/23 11:48	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/24/23 16:51	H3
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	10/21/23 02:17	
SM 5310C	Dissolved Organic Carbon	3.2	mg/L	1.0	10/19/23 19:23	
50356305006	MW-25I					
EPA 9056	Chloride	95.1	mg/L	2.5	10/20/23 01:00	
EPA 9056	Fluoride	0.10	mg/L	0.10	10/20/23 00:43	
EPA 9056	Sulfate	83.5	mg/L	2.5	10/20/23 01:00	
EPA 6010	Boron	1020	ug/L	100	10/25/23 15:04	
EPA 6010	Calcium	75800	ug/L	1000	10/25/23 15:04	
EPA 6010	Iron	730	ug/L	100	10/25/23 15:04	
EPA 6010	Lithium	78.4	ug/L	20.0	10/25/23 15:04	
EPA 6010	Magnesium	19800	ug/L	1000	10/25/23 15:04	
EPA 6010	Manganese	198	ug/L	10.0	10/25/23 15:04	
EPA 6010	Molybdenum	134	ug/L	10.0	10/25/23 15:04	
EPA 6010	Potassium	6480	ug/L	1000	10/25/23 15:04	
EPA 6010	Silica	11200	ug/L	450	10/25/23 15:04	N2
EPA 6010	Sodium	75700	ug/L	1000	10/25/23 15:04	
EPA 6010	Manganese, Dissolved	203	ug/L	10.0	10/25/23 16:49	
EPA 6010	Molybdenum, Dissolved	138	ug/L	10.0	10/25/23 16:49	
EPA 6020	Arsenic	1.2	ug/L	1.0	10/17/23 04:41	
EPA 6020	Barium	76.6	ug/L	1.0	10/17/23 04:41	
EPA 903.1	Radium-226	0.251 ± 0.452 (0.796)	pCi/L		11/06/23 14:04	
		C:NA T:84%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356305006	MW-25I					
EPA 904.0	Radium-228	0.381 ± 0.312 (0.617) C:87% T:84%	pCi/L		10/25/23 11:27	
Total Radium Calculation	Total Radium	0.632 ± 0.764 (1.41)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	224	mg/L	10.0	10/13/23 21:00	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	224	mg/L	10.0	10/13/23 21:00	
SM 2540C	Total Dissolved Solids	498	mg/L	10.0	10/18/23 11:49	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/24/23 16:51	H3
SM 5310C	Total Organic Carbon	1.3	mg/L	1.0	10/21/23 02:48	
SM 5310C	Dissolved Organic Carbon	2.4	mg/L	1.0	10/19/23 19:34	
50356305007	MW-25D					
EPA 9056	Chloride	92.5	mg/L	2.5	10/20/23 07:01	
EPA 9056	Fluoride	0.11	mg/L	0.10	10/20/23 06:43	
EPA 9056	Sulfate	84.4	mg/L	2.5	10/20/23 07:01	
EPA 6010	Boron	1690	ug/L	100	10/25/23 15:05	
EPA 6010	Calcium	73400	ug/L	1000	10/25/23 15:05	
EPA 6010	Iron	1370	ug/L	100	10/25/23 15:05	
EPA 6010	Lithium	63.1	ug/L	20.0	10/25/23 15:05	
EPA 6010	Magnesium	15300	ug/L	1000	10/25/23 15:05	
EPA 6010	Manganese	111	ug/L	10.0	10/25/23 15:05	
EPA 6010	Molybdenum	178	ug/L	10.0	10/25/23 15:05	
EPA 6010	Potassium	3680	ug/L	1000	10/25/23 15:05	
EPA 6010	Silica	11900	ug/L	450	10/25/23 15:05	N2
EPA 6010	Sodium	84500	ug/L	1000	10/25/23 15:05	
EPA 6010	Manganese, Dissolved	108	ug/L	10.0	10/25/23 16:51	
EPA 6010	Molybdenum, Dissolved	174	ug/L	10.0	10/25/23 16:51	
EPA 6020	Barium	58.1	ug/L	1.0	10/17/23 04:44	
EPA 903.1	Radium-226	0.484 ± 0.467 (0.733)	pCi/L		11/06/23 14:04	
EPA 904.0	Radium-228	C:NA T:83% 0.216 ± 0.304 (0.652) C:84% T:83%	pCi/L		10/25/23 11:27	
Total Radium Calculation	Total Radium	0.700 ± 0.771 (1.39)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	216	mg/L	10.0	10/13/23 21:00	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	216	mg/L	10.0	10/13/23 21:00	
SM 2540C	Total Dissolved Solids	478	mg/L	10.0	10/18/23 11:49	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	10/25/23 16:24	H3
HACH 8146	Iron, Ferrous	0.25	mg/L	0.20	10/18/23 15:40	H3,N2
SM 5310C	Total Organic Carbon	1.5	mg/L	1.0	10/21/23 02:58	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	10/24/23 14:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356305008	DUP-5					
EPA 9056	Chloride	93.4	mg/L	2.5	10/20/23 07:35	
EPA 9056	Fluoride	0.11	mg/L	0.10	10/20/23 07:18	
EPA 9056	Sulfate	85.5	mg/L	2.5	10/20/23 07:35	
EPA 6010	Boron	1720	ug/L	100	10/25/23 15:07	
EPA 6010	Calcium	74500	ug/L	1000	10/25/23 15:07	
EPA 6010	Iron	1380	ug/L	100	10/25/23 15:07	
EPA 6010	Lithium	63.8	ug/L	20.0	10/25/23 15:07	
EPA 6010	Magnesium	15600	ug/L	1000	10/25/23 15:07	
EPA 6010	Manganese	113	ug/L	10.0	10/25/23 15:07	
EPA 6010	Molybdenum	183	ug/L	10.0	10/25/23 15:07	
EPA 6010	Potassium	3700	ug/L	1000	10/25/23 15:07	
EPA 6010	Silica	12100	ug/L	450	10/25/23 15:07	N2
EPA 6010	Sodium	85600	ug/L	1000	10/25/23 15:07	
EPA 6010	Manganese, Dissolved	108	ug/L	10.0	10/25/23 16:52	
EPA 6010	Molybdenum, Dissolved	176	ug/L	10.0	10/25/23 16:52	
EPA 6020	Barium	57.8	ug/L	1.0	10/17/23 04:54	
EPA 903.1	Radium-226	0.764 ± 0.482 (0.633)	pCi/L		11/06/23 14:20	
EPA 904.0	Radium-228	C:NA T:86% 1.11 ± 0.440 (0.660)	pCi/L		10/25/23 11:27	
		C:78% T:86%				
Total Radium Calculation	Total Radium	1.87 ± 0.922 (1.29)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	217	mg/L	10.0	10/13/23 21:00	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	217	mg/L	10.0	10/13/23 21:00	
SM 2540C	Total Dissolved Solids	484	mg/L	10.0	10/18/23 11:49	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/25/23 16:12	H3
SM 5310C	Total Organic Carbon	1.5	mg/L	1.0	10/21/23 03:08	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	10/24/23 15:03	
50356305009	DUP-6					
EPA 9056	Chloride	63.5	mg/L	2.5	10/20/23 09:01	
EPA 9056	Fluoride	0.35	mg/L	0.10	10/20/23 08:44	
EPA 9056	Sulfate	224	mg/L	2.5	10/20/23 09:01	
EPA 6010	Boron	6010	ug/L	100	10/25/23 15:08	
EPA 6010	Calcium	98200	ug/L	1000	10/25/23 15:08	
EPA 6010	Lithium	104	ug/L	20.0	10/25/23 15:08	
EPA 6010	Magnesium	22600	ug/L	1000	10/25/23 15:08	
EPA 6010	Manganese	67.9	ug/L	10.0	10/25/23 15:08	
EPA 6010	Molybdenum	282	ug/L	10.0	10/25/23 15:08	
EPA 6010	Potassium	10200	ug/L	1000	10/25/23 15:08	
EPA 6010	Silica	11200	ug/L	450	10/25/23 15:08	N2
EPA 6010	Sodium	107000	ug/L	1000	10/25/23 15:08	
EPA 6010	Manganese, Dissolved	63.7	ug/L	10.0	10/25/23 16:54	
EPA 6010	Molybdenum, Dissolved	268	ug/L	10.0	10/25/23 16:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356305009	DUP-6					
EPA 6020	Barium	59.0	ug/L	1.0	10/17/23 04:58	
EPA 903.1	Radium-226	1.02 ± 0.472 (0.358)	pCi/L		11/06/23 14:20	
EPA 904.0	Radium-228	C:NA T:82% 1.01 ± 0.504 (0.897)	pCi/L		10/25/23 11:27	
		C:80% T:82%				
Total Radium Calculation	Total Radium	2.03 ± 0.976 (1.26)	pCi/L		11/06/23 16:20	
SM 2320B	Alkalinity, Total as CaCO3	263	mg/L	10.0	10/13/23 21:00	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	263	mg/L	10.0	10/13/23 21:00	
SM 2540C	Total Dissolved Solids	694	mg/L	10.0	10/18/23 11:49	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/25/23 16:14	H3
SM 5310C	Total Organic Carbon	1.1	mg/L	1.0	10/21/23 03:18	
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	10/24/23 15:28	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-15S **Lab ID: 50356305001** Collected: 10/12/23 11:05 Received: 10/12/23 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	22.1	mg/L	0.25	0.067	1		10/19/23 23:51	16887-00-6	
Fluoride	0.31	mg/L	0.10	0.017	1		10/19/23 23:51	16984-48-8	
Sulfate	26.3	mg/L	0.25	0.19	1		10/19/23 23:51	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 14:50	7429-90-5	
Boron	1190	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 14:50	7440-42-8	
Calcium	106000	ug/L	1000	56.7	1	10/16/23 15:24	10/25/23 14:50	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 14:50	7439-89-6	
Lithium	52.5	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 14:50	7439-93-2	
Magnesium	26600	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 14:50	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 14:50	7439-96-5	
Molybdenum	67.7	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 14:50	7439-98-7	
Potassium	5530	ug/L	1000	120	1	10/16/23 15:24	10/25/23 14:50	7440-09-7	
Silica	13000	ug/L	450		1	10/16/23 15:24	10/25/23 14:50	7631-86-9	N2
Sodium	17100	ug/L	1000	48.2	1	10/16/23 15:24	10/25/23 14:50	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	ND	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:40	7439-96-5	
Molybdenum, Dissolved	72.6	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:40	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:17	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:17	7440-38-2	
Barium	65.4	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:17	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:17	7440-48-4	
Selenium	1.5	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:17	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	326	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Bicarbonate (CaCO3)	326	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 21:00		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	411	mg/L	10.0	10.0	1		10/18/23 11:48		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/24/23 16:46		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-15S		Lab ID: 50356305001		Collected: 10/12/23 11:05	Received: 10/12/23 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:52	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	6.6	mg/L	0.50	0.055	5		10/12/23 23:59	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.50	0.020	5		10/12/23 23:59	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.25	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 16:59			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.7	mg/L	1.0	0.24	1		10/18/23 22:03	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.8	mg/L	1.0	0.24	1		10/19/23 18:11			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-15I **Lab ID: 50356305002** Collected: 10/12/23 13:00 Received: 10/12/23 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	62.9	mg/L	2.5	0.67	10		10/20/23 04:09	16887-00-6	
Fluoride	0.35	mg/L	0.10	0.017	1		10/20/23 03:52	16984-48-8	
Sulfate	223	mg/L	2.5	1.9	10		10/20/23 04:09	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 14:51	7429-90-5	
Boron	5980	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 14:51	7440-42-8	
Calcium	97800	ug/L	1000	56.7	1	10/16/23 15:24	10/25/23 14:51	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 14:51	7439-89-6	
Lithium	103	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 14:51	7439-93-2	
Magnesium	22400	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 14:51	7439-95-4	
Manganese	67.3	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 14:51	7439-96-5	
Molybdenum	281	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 14:51	7439-98-7	
Potassium	10200	ug/L	1000	120	1	10/16/23 15:24	10/25/23 14:51	7440-09-7	
Silica	11200	ug/L	450		1	10/16/23 15:24	10/25/23 14:51	7631-86-9	N2
Sodium	107000	ug/L	1000	48.2	1	10/16/23 15:24	10/25/23 14:51	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	75.8	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:39	7439-96-5	
Molybdenum, Dissolved	320	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:39	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:20	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:20	7440-38-2	
Barium	60.0	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:20	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:20	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:20	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	263	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Bicarbonate (CaCO3)	263	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 21:00		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	686	mg/L	10.0	10.0	1		10/18/23 11:48		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		10/24/23 16:47		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-15I		Lab ID: 50356305002		Collected: 10/12/23 13:00	Received: 10/12/23 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 14:52	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/12/23 23:53	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/12/23 23:53	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 17:01			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.4	mg/L	1.0	0.24	1		10/18/23 22:13	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.9	mg/L	1.0	0.24	1		10/19/23 18:52			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-15D		Lab ID: 50356305003		Collected: 10/12/23 14:35	Received: 10/12/23 16:40	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	124	mg/L	2.5	0.67	10		10/20/23 04:43	16887-00-6	
Fluoride	0.21	mg/L	0.10	0.017	1		10/20/23 04:26	16984-48-8	
Sulfate	182	mg/L	2.5	1.9	10		10/20/23 04:43	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 14:59	7429-90-5	
Boron	4590	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 14:59	7440-42-8	
Calcium	94700	ug/L	1000	56.7	1	10/16/23 15:24	10/25/23 14:59	7440-70-2	
Iron	185	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 14:59	7439-89-6	
Lithium	77.4	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 14:59	7439-93-2	
Magnesium	17800	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 14:59	7439-95-4	
Manganese	386	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 14:59	7439-96-5	
Molybdenum	175	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 14:59	7439-98-7	
Potassium	6370	ug/L	1000	120	1	10/16/23 15:24	10/25/23 14:59	7440-09-7	
Silica	11700	ug/L	450		1	10/16/23 15:24	10/25/23 14:59	7631-86-9	N2
Sodium	96900	ug/L	1000	48.2	1	10/16/23 15:24	10/25/23 14:59	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	417	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:42	7439-96-5	
Molybdenum, Dissolved	191	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:42	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:31	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:31	7440-38-2	
Barium	49.6	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:31	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:31	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:31	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	187	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Bicarbonate (CaCO3)	187	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 21:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	645	mg/L	10.0	10.0	1		10/18/23 11:48		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		10/24/23 16:48		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-15D		Lab ID: 50356305003		Collected: 10/12/23 14:35	Received: 10/12/23 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:41	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/12/23 23:57	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/12/23 23:57	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 17:01			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.8	mg/L	1.0	0.24	1		10/18/23 22:30	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.7	mg/L	1.0	0.24	1		10/19/23 19:02			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-16S		Lab ID: 50356305004		Collected: 10/12/23 11:10		Received: 10/12/23 16:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	110	mg/L	2.5	0.67	10		10/20/23 05:52	16887-00-6	
Fluoride	0.30	mg/L	0.10	0.017	1		10/20/23 05:35	16984-48-8	
Sulfate	94.3	mg/L	2.5	1.9	10		10/20/23 05:52	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 15:01	7429-90-5	
Boron	253	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 15:01	7440-42-8	
Calcium	82700	ug/L	1000	56.7	1	10/16/23 15:24	10/25/23 15:01	7440-70-2	
Iron	135	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 15:01	7439-89-6	
Lithium	43.8	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 15:01	7439-93-2	
Magnesium	21900	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 15:01	7439-95-4	
Manganese	1760	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:01	7439-96-5	
Molybdenum	67.9	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:01	7439-98-7	
Potassium	7290	ug/L	1000	120	1	10/16/23 15:24	10/25/23 15:01	7440-09-7	
Silica	12000	ug/L	450		1	10/16/23 15:24	10/25/23 15:01	7631-86-9	N2
Sodium	89500	ug/L	1000	48.2	1	10/16/23 15:24	10/25/23 15:01	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	402	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:43	7439-96-5	
Molybdenum, Dissolved	60.8	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:43	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:34	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:34	7440-38-2	
Barium	83.7	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:34	7440-39-3	
Cobalt	1.0	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:34	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:34	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	254	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Bicarbonate (CaCO3)	254	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 21:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	552	mg/L	10.0	10.0	1		10/18/23 11:48		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		10/24/23 16:49		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-16S		Lab ID: 50356305004		Collected: 10/12/23 11:10	Received: 10/12/23 16:40	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:40	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.32	mg/L	0.10	0.011	1		10/13/23 00:01	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/13/23 00:01	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 17:02		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.5	mg/L	1.0	0.24	1		10/21/23 02:07	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.0	mg/L	1.0	0.24	1		10/19/23 19:12		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356305

Sample: MW-16I		Lab ID: 50356305005		Collected: 10/12/23 12:30		Received: 10/12/23 16:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	96.2	mg/L	2.5	0.67	10		10/20/23 06:26	16887-00-6	
Fluoride	0.32	mg/L	0.10	0.017	1		10/20/23 06:09	16984-48-8	
Sulfate	73.7	mg/L	2.5	1.9	10		10/20/23 06:26	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 15:03	7429-90-5	
Boron	185	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 15:03	7440-42-8	
Calcium	72400	ug/L	1000	56.7	1	10/16/23 15:24	10/25/23 15:03	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 15:03	7439-89-6	
Lithium	54.7	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 15:03	7439-93-2	
Magnesium	22700	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 15:03	7439-95-4	
Manganese	93.8	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:03	7439-96-5	
Molybdenum	93.5	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:03	7439-98-7	
Potassium	7250	ug/L	1000	120	1	10/16/23 15:24	10/25/23 15:03	7440-09-7	
Silica	10900	ug/L	450		1	10/16/23 15:24	10/25/23 15:03	7631-86-9	N2
Sodium	64100	ug/L	1000	48.2	1	10/16/23 15:24	10/25/23 15:03	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	93.6	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:45	7439-96-5	
Molybdenum, Dissolved	95.0	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:45	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:37	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:37	7440-38-2	
Barium	65.3	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:37	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:37	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:37	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	211	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Bicarbonate (CaCO3)	211	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 21:00		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	463	mg/L	10.0	10.0	1		10/18/23 11:48		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	0.10	1		10/24/23 16:51		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-16I		Lab ID: 50356305005		Collected: 10/12/23 12:30	Received: 10/12/23 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:41	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/12/23 23:52	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/12/23 23:52	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 17:03			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.6	mg/L	1.0	0.24	1		10/21/23 02:17	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	3.2	mg/L	1.0	0.24	1		10/19/23 19:23			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-25I		Lab ID: 50356305006		Collected: 10/12/23 13:40	Received: 10/12/23 16:40	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	95.1	mg/L	2.5	0.67	10		10/20/23 01:00	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.017	1		10/20/23 00:43	16984-48-8	
Sulfate	83.5	mg/L	2.5	1.9	10		10/20/23 01:00	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 15:04	7429-90-5	
Boron	1020	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 15:04	7440-42-8	
Calcium	75800	ug/L	1000	56.7	1	10/16/23 15:24	10/25/23 15:04	7440-70-2	
Iron	730	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 15:04	7439-89-6	
Lithium	78.4	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 15:04	7439-93-2	
Magnesium	19800	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 15:04	7439-95-4	
Manganese	198	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:04	7439-96-5	
Molybdenum	134	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:04	7439-98-7	
Potassium	6480	ug/L	1000	120	1	10/16/23 15:24	10/25/23 15:04	7440-09-7	
Silica	11200	ug/L	450		1	10/16/23 15:24	10/25/23 15:04	7631-86-9	N2
Sodium	75700	ug/L	1000	48.2	1	10/16/23 15:24	10/25/23 15:04	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	203	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:49	7439-96-5	
Molybdenum, Dissolved	138	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:49	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:41	7440-36-0	
Arsenic	1.2	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:41	7440-38-2	
Barium	76.6	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:41	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:41	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:41	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	224	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Bicarbonate (CaCO3)	224	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 21:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	498	mg/L	10.0	10.0	1		10/18/23 11:49		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/24/23 16:51		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-25I		Lab ID: 50356305006		Collected: 10/12/23 13:40	Received: 10/12/23 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:41	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/12/23 23:55	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/12/23 23:55	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 17:03			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.3	mg/L	1.0	0.24	1		10/21/23 02:48	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.4	mg/L	1.0	0.24	1		10/19/23 19:34			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356305

Sample: MW-25D Lab ID: 50356305007 Collected: 10/12/23 11:35 Received: 10/12/23 16:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Chloride	92.5	mg/L	2.5	0.67	10		10/20/23 07:01	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.017	1		10/20/23 06:43	16984-48-8	
Sulfate	84.4	mg/L	2.5	1.9	10		10/20/23 07:01	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 15:05	7429-90-5	
Boron	1690	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 15:05	7440-42-8	
Calcium	73400	ug/L	1000	56.7	1	10/16/23 15:24	10/25/23 15:05	7440-70-2	
Iron	1370	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 15:05	7439-89-6	
Lithium	63.1	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 15:05	7439-93-2	
Magnesium	15300	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 15:05	7439-95-4	
Manganese	111	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:05	7439-96-5	
Molybdenum	178	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:05	7439-98-7	
Potassium	3680	ug/L	1000	120	1	10/16/23 15:24	10/25/23 15:05	7440-09-7	
Silica	11900	ug/L	450		1	10/16/23 15:24	10/25/23 15:05	7631-86-9	N2
Sodium	84500	ug/L	1000	48.2	1	10/16/23 15:24	10/25/23 15:05	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Manganese, Dissolved	108	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:51	7439-96-5	
Molybdenum, Dissolved	174	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:51	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:44	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:44	7440-38-2	
Barium	58.1	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:44	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:44	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:44	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	216	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Bicarbonate (CaCO3)	216	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 21:00		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	478	mg/L	10.0	10.0	1		10/18/23 11:49		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		10/25/23 16:24		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-25D Lab ID: 50356305007 Collected: 10/12/23 11:35 Received: 10/12/23 16:40 Matrix: Water									
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis									
Iron, Ferrous	0.25	mg/L	0.20	0.035	1		10/18/23 15:40	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/12/23 23:50	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/12/23 23:50	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 17:04		
5310C TOC									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Total Organic Carbon	1.5	mg/L	1.0	0.24	1		10/21/23 02:58	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.3	mg/L	1.0	0.24	1		10/24/23 14:37		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: DUP-5		Lab ID: 50356305008		Collected: 10/12/23 08:00	Received: 10/12/23 16:40	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	93.4	mg/L	2.5	0.67	10		10/20/23 07:35	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.017	1		10/20/23 07:18	16984-48-8	
Sulfate	85.5	mg/L	2.5	1.9	10		10/20/23 07:35	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 15:07	7429-90-5	
Boron	1720	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 15:07	7440-42-8	
Calcium	74500	ug/L	1000	56.7	1	10/16/23 15:24	10/25/23 15:07	7440-70-2	
Iron	1380	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 15:07	7439-89-6	
Lithium	63.8	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 15:07	7439-93-2	
Magnesium	15600	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 15:07	7439-95-4	
Manganese	113	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:07	7439-96-5	
Molybdenum	183	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:07	7439-98-7	
Potassium	3700	ug/L	1000	120	1	10/16/23 15:24	10/25/23 15:07	7440-09-7	
Silica	12100	ug/L	450		1	10/16/23 15:24	10/25/23 15:07	7631-86-9	N2
Sodium	85600	ug/L	1000	48.2	1	10/16/23 15:24	10/25/23 15:07	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	108	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:52	7439-96-5	
Molybdenum, Dissolved	176	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:52	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:54	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:54	7440-38-2	
Barium	57.8	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:54	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:54	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:54	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	217	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Bicarbonate (CaCO3)	217	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 21:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	484	mg/L	10.0	10.0	1		10/18/23 11:49		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.1	Std. Units	0.10	0.10	1		10/25/23 16:12		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DUP-5									
Lab ID: 50356305008									
Collected: 10/12/23 08:00 Received: 10/12/23 16:40 Matrix: Water									
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:39	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/12/23 23:14	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/12/23 23:14	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 17:05		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	1.5	mg/L	1.0	0.24	1		10/21/23 03:08	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.3	mg/L	1.0	0.24	1		10/24/23 15:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: DUP-6 **Lab ID: 50356305009** Collected: 10/12/23 08:00 Received: 10/12/23 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	63.5	mg/L	2.5	0.67	10		10/20/23 09:01	16887-00-6	
Fluoride	0.35	mg/L	0.10	0.017	1		10/20/23 08:44	16984-48-8	
Sulfate	224	mg/L	2.5	1.9	10		10/20/23 09:01	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/16/23 15:24	10/25/23 15:08	7429-90-5	
Boron	6010	ug/L	100	11.4	1	10/16/23 15:24	10/25/23 15:08	7440-42-8	
Calcium	98200	ug/L	1000	56.7	1	10/16/23 15:24	10/25/23 15:08	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/16/23 15:24	10/25/23 15:08	7439-89-6	
Lithium	104	ug/L	20.0	5.1	1	10/16/23 15:24	10/25/23 15:08	7439-93-2	
Magnesium	22600	ug/L	1000	32.8	1	10/16/23 15:24	10/25/23 15:08	7439-95-4	
Manganese	67.9	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:08	7439-96-5	
Molybdenum	282	ug/L	10.0	1.1	1	10/16/23 15:24	10/25/23 15:08	7439-98-7	
Potassium	10200	ug/L	1000	120	1	10/16/23 15:24	10/25/23 15:08	7440-09-7	
Silica	11200	ug/L	450		1	10/16/23 15:24	10/25/23 15:08	7631-86-9	N2
Sodium	107000	ug/L	1000	48.2	1	10/16/23 15:24	10/25/23 15:08	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	63.7	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:54	7439-96-5	
Molybdenum, Dissolved	268	ug/L	10.0	1.1	1	10/16/23 15:22	10/25/23 16:54	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.080	1	10/14/23 15:22	10/17/23 04:58	7440-36-0	
Arsenic	ND	ug/L	1.0	0.12	1	10/14/23 15:22	10/17/23 04:58	7440-38-2	
Barium	59.0	ug/L	1.0	0.065	1	10/14/23 15:22	10/17/23 04:58	7440-39-3	
Cobalt	ND	ug/L	1.0	0.071	1	10/14/23 15:22	10/17/23 04:58	7440-48-4	
Selenium	ND	ug/L	1.0	0.19	1	10/14/23 15:22	10/17/23 04:58	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	263	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Bicarbonate (CaCO3)	263	mg/L	10.0	10.0	1		10/13/23 21:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/13/23 21:00		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	694	mg/L	10.0	10.0	1		10/18/23 11:49		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		10/25/23 16:14		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: DUP-6		Lab ID: 50356305009		Collected: 10/12/23 08:00	Received: 10/12/23 16:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:39	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/12/23 23:16	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/12/23 23:16	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 11:30	10/25/23 17:06			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.1	mg/L	1.0	0.24	1		10/21/23 03:18	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.0	mg/L	1.0	0.24	1		10/24/23 15:28			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	758032	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

METHOD BLANK: 3473758 Matrix: Water
 Associated Lab Samples: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/19/23 18:08	
Fluoride	mg/L	ND	0.10	0.017	10/19/23 18:08	
Sulfate	mg/L	ND	0.25	0.19	10/19/23 18:08	

LABORATORY CONTROL SAMPLE: 3473759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	0.96	96	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473767 3473768

Parameter	Units	50356305001		3473768		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	22.1	2.5	2.5	24.4	24.4	92	91	80-120	0	15
Fluoride	mg/L	0.31	1	1	1.3	1.3	99	99	80-120	0	15
Sulfate	mg/L	26.3	5	5	31.3	31.2	99	98	80-120	0	15

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	757116	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

METHOD BLANK: 3469895 Matrix: Water
 Associated Lab Samples: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/25/23 14:21	
Boron	ug/L	ND	100	11.4	10/25/23 14:21	
Calcium	ug/L	ND	1000	56.7	10/25/23 14:21	
Iron	ug/L	ND	100	18.1	10/25/23 14:21	
Lithium	ug/L	ND	20.0	5.1	10/25/23 14:21	
Magnesium	ug/L	ND	1000	32.8	10/25/23 14:21	
Manganese	ug/L	ND	10.0	1.1	10/25/23 14:21	
Molybdenum	ug/L	ND	10.0	1.1	10/25/23 14:21	
Potassium	ug/L	ND	1000	120	10/25/23 14:21	
Silica	ug/L	ND	450		10/25/23 14:21	N2
Sodium	ug/L	ND	1000	48.2	10/25/23 14:21	

LABORATORY CONTROL SAMPLE: 3469896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	80-120	
Boron	ug/L	1000	969	97	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Iron	ug/L	10000	9680	97	80-120	
Lithium	ug/L	1000	1000	100	80-120	
Magnesium	ug/L	10000	9900	99	80-120	
Manganese	ug/L	1000	1040	104	80-120	
Molybdenum	ug/L	1000	983	98	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silica	ug/L	10700	10600	99	80-120	N2
Sodium	ug/L	10000	9970	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469897 3469898

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356224004 Result	Spike Conc.	Spike Conc.	MS Result						
Aluminum	ug/L	<0.079 mg/L	10000	10000	9910	9870	99	98	75-125	0	20
Boron	ug/L	0.69 mg/L	1000	1000	1700	1720	101	102	75-125	1	20
Calcium	ug/L	37.6 mg/L	10000	10000	46800	47600	92	100	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469897 3469898											
Parameter	Units	50356224004 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Iron	ug/L	<0.018 mg/L	10000	10000	9720	9710	97	97	75-125	0	20
Lithium	ug/L	<0.0051 mg/L	1000	1000	986	989	98	99	75-125	0	20
Magnesium	ug/L	21.1 mg/L	10000	10000	30400	30700	93	96	75-125	1	20
Manganese	ug/L	0.0014J mg/L	1000	1000	1040	1040	104	104	75-125	0	20
Molybdenum	ug/L	0.0034J mg/L	1000	1000	998	999	99	100	75-125	0	20
Potassium	ug/L	0.73J mg/L	10000	10000	10700	10700	100	100	75-125	0	20
Silica	ug/L	34.3 mg/L	10700	10700	44700	45400	97	103	75-125	1	20 N2
Sodium	ug/L	294 mg/L	10000	10000	303000	310000	90	163	75-125	2	20 P6

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	757412	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

METHOD BLANK:	3471680	Matrix:	Water
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/25/23 16:13	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/25/23 16:13	

LABORATORY CONTROL SAMPLE: 3471681						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1010	101	80-120	
Molybdenum, Dissolved	ug/L	1000	979	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471682												3471683		
Parameter	Units	50356191006 Result	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.									
Manganese, Dissolved	ug/L	ND	1000	1000	1010	1030	101	103	75-125	2	20			
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	1030	101	103	75-125	2	20			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	757228	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

METHOD BLANK:	3470412	Matrix:	Water
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.080	10/17/23 04:07	
Arsenic	ug/L	ND	1.0	0.12	10/17/23 04:07	
Barium	ug/L	ND	1.0	0.065	10/17/23 04:07	
Cobalt	ug/L	ND	1.0	0.071	10/17/23 04:07	
Selenium	ug/L	ND	1.0	0.19	10/17/23 04:07	

LABORATORY CONTROL SAMPLE: 3470413						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.4	103	80-120	
Arsenic	ug/L	40	38.5	96	80-120	
Barium	ug/L	40	39.6	99	80-120	
Cobalt	ug/L	40	40.2	101	80-120	
Selenium	ug/L	40	38.1	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470414												3470415	
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356314008	Result	Spike Conc.	Spike Conc.								
Antimony	ug/L	ND	40	40	42.8	42.9	107	107	75-125	0	20		
Arsenic	ug/L	ND	40	40	39.4	39.5	93	93	75-125	0	20		
Barium	ug/L	222	40	40	261	263	96	102	75-125	1	20	E	
Cobalt	ug/L	ND	40	40	37.5	37.4	93	93	75-125	0	20		
Selenium	ug/L	ND	40	40	37.4	37.7	93	94	75-125	1	20		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	757333	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

METHOD BLANK:	3470996	Matrix:	Water
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/13/23 21:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/13/23 21:00	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/13/23 21:00	

LABORATORY CONTROL SAMPLE: 3470997						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	90-110	

SAMPLE DUPLICATE: 3470998						
Parameter	Units	50356271002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	478	490	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	478	490	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3470999						
Parameter	Units	50356322015 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	391	397	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	391	397	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	757915	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

METHOD BLANK:	3473327	Matrix:	Water
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/18/23 11:46	

LABORATORY CONTROL SAMPLE: 3473328						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	295	98	80-120	

SAMPLE DUPLICATE: 3473329						
Parameter	Units	50356278005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10 PL	

SAMPLE DUPLICATE: 3473330						
Parameter	Units	50356314008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	908	862	5	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch: 758916

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006

SAMPLE DUPLICATE: 3477993

Parameter	Units	50356191006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.2	1	2	H3

SAMPLE DUPLICATE: 3477994

Parameter	Units	50356305004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch: 758996

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356305007, 50356305008, 50356305009

SAMPLE DUPLICATE: 3478347

Parameter	Units	50356305008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	1	2	H3

SAMPLE DUPLICATE: 3478348

Parameter	Units	50356334003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.9	8.9	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	757534	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

METHOD BLANK:	3471955	Matrix:	Water
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/16/23 15:44	

LABORATORY CONTROL SAMPLE: 3471956						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471957												3471958	
Parameter	Units	50356278002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Sulfide	mg/L	ND	0.5	0.5	0.49	0.49	95	96	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471959												3471960	
Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Sulfide	mg/L	ND	0.5	0.5	0.56	0.55	110	108	90-110	2	20		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch: 757930	Analysis Method: HACH 8146
QC Batch Method: HACH 8146	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356305001, 50356305002

METHOD BLANK: 3473375 Matrix: Water

Associated Lab Samples: 50356305001, 50356305002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 14:27	H3,N2

LABORATORY CONTROL SAMPLE: 3473376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	100	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473377 3473378

Parameter	Units	50356191006		3473377		3473378		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec					
Iron, Ferrous	mg/L	ND	1	1	0.99	1.0	99	101	90-110	3	20	H3,N2

MATRIX SPIKE SAMPLE: 3473379

Parameter	Units	50356303001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	101	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	757931	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009		

METHOD BLANK: 3473380 Matrix: Water
 Associated Lab Samples: 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 15:39	H3,N2

LABORATORY CONTROL SAMPLE: 3473381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473382 3473383

Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	0.62	1	1	1.6	1.6	100	103	90-110	2	20	H3,N2

MATRIX SPIKE SAMPLE: 3473384

Parameter	Units	50356558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	102	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	757118	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356305001, 50356305004, 50356305008, 50356305009

METHOD BLANK: 3469903 Matrix: Water
 Associated Lab Samples: 50356305001, 50356305004, 50356305008, 50356305009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/12/23 22:43	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/12/23 22:43	

LABORATORY CONTROL SAMPLE: 3469904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.99	99	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 3469905

Parameter	Units	50356214003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	0.99	99	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.98	98	90-110	

MATRIX SPIKE SAMPLE: 3469906

Parameter	Units	50356278002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.84	1	1.9	103	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	98	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch: 757119 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356305002, 50356305003, 50356305005, 50356305006, 50356305007

METHOD BLANK: 3469908 Matrix: Water
 Associated Lab Samples: 50356305002, 50356305003, 50356305005, 50356305006, 50356305007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/12/23 23:37	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/12/23 23:37	

LABORATORY CONTROL SAMPLE: 3469909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469910 3469911

Parameter	Units	50356278004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.89	1	1	1.9	1.9	103	100	90-110	2	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.0	1.0	99	98	90-110	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356305

QC Batch: 758971 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

METHOD BLANK: 3478293 Matrix: Water
 Associated Lab Samples: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/25/23 16:56	

LABORATORY CONTROL SAMPLE: 3478294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3478295 3478296

Parameter	Units	50356303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	1.5			2.9	2.9				2		

MATRIX SPIKE SAMPLE: 3478297

Parameter	Units	50356305003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		ND	1.6			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	757961	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356305001, 50356305002, 50356305003		

METHOD BLANK: 3473490 Matrix: Water

Associated Lab Samples: 50356305001, 50356305002, 50356305003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/18/23 19:42	

LABORATORY CONTROL SAMPLE: 3473491

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473492 3473493

Parameter	Units	50356191006		3473493		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Total Organic Carbon	mg/L	1.4	10	10.7	10.6	92	91	80-120	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356305

QC Batch: 758402 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

METHOD BLANK: 3475741 Matrix: Water
 Associated Lab Samples: 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/21/23 01:36	

LABORATORY CONTROL SAMPLE: 3475742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475743 3475744

Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.7	10	10	11.0	11.2	94	95	80-120	1	20	

MATRIX SPIKE SAMPLE: 3475745

Parameter	Units	50356477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.3	10	10.8	95	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	758174	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006		

METHOD BLANK:	3474513	Matrix:	Water
Associated Lab Samples:	50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/19/23 14:16	

LABORATORY CONTROL SAMPLE: 3474514						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3474515												3474516	
Parameter	Units	50356208010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Dissolved Organic Carbon	mg/L	3.2	10	10	12.0	12.6	88	94	80-120	4	20		

MATRIX SPIKE SAMPLE: 3474517											
Parameter	Units	50356208011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Dissolved Organic Carbon	mg/L	4.4	10	14.2	98	80-120					

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	758413	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356305007, 50356305008, 50356305009		

METHOD BLANK: 3475782 Matrix: Water
 Associated Lab Samples: 50356305007, 50356305008, 50356305009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/24/23 12:48	

LABORATORY CONTROL SAMPLE: 3475783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475784 3475785

Parameter	Units	50356477002		50356477003		50356477004		50356477005		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Dissolved Organic Carbon	mg/L	1.4	10	10	10.9	10.9	95	96	80-120	1	20		

MATRIX SPIKE SAMPLE: 3475786

Parameter	Units	50356477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.0	10	10.7	97	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-15S **Lab ID: 50356305001** Collected: 10/12/23 11:05 Received: 10/12/23 16:40 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.135 ± 0.234 (0.418) C:NA T:81%	pCi/L	11/06/23 14:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.639 ± 0.390 (0.723) C:84% T:81%	pCi/L	10/25/23 11:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.774 ± 0.624 (1.14)	pCi/L	11/06/23 16:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-151 **Lab ID: 50356305002** Collected: 10/12/23 13:00 Received: 10/12/23 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.433 ± 0.543 (0.902) C:NA T:76%	pCi/L	11/06/23 14:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.981 ± 0.539 (0.990) C:80% T:76%	pCi/L	10/25/23 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.41 ± 1.08 (1.89)	pCi/L	11/06/23 16:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-15D **Lab ID: 50356305003** Collected: 10/12/23 14:35 Received: 10/12/23 16:40 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.191 ± 0.439 (0.794) C:NA T:77%	pCi/L	11/06/23 14:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.894 ± 0.416 (0.688) C:84% T:77%	pCi/L	10/25/23 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.09 ± 0.855 (1.48)	pCi/L	11/06/23 16:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-16S **Lab ID: 50356305004** Collected: 10/12/23 11:10 Received: 10/12/23 16:40 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.440 ± 0.426 (0.667) C:NA T:89%	pCi/L	11/06/23 14:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.258 ± 0.329 (0.699) C:77% T:89%	pCi/L	10/25/23 11:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.698 ± 0.755 (1.37)	pCi/L	11/06/23 16:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-161 **Lab ID: 50356305005** Collected: 10/12/23 12:30 Received: 10/12/23 16:40 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.245 ± 0.441 (0.777) C:NA T:79%	pCi/L	11/06/23 14:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.990 ± 0.438 (0.717) C:86% T:79%	pCi/L	10/25/23 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.24 ± 0.879 (1.49)	pCi/L	11/06/23 16:20	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-251 Lab ID: 50356305006 Collected: 10/12/23 13:40 Received: 10/12/23 16:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.251 ± 0.452 (0.796) C:NA T:84%	pCi/L	11/06/23 14:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.381 ± 0.312 (0.617) C:87% T:84%	pCi/L	10/25/23 11:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.632 ± 0.764 (1.41)	pCi/L	11/06/23 16:20	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: MW-25D **Lab ID: 50356305007** Collected: 10/12/23 11:35 Received: 10/12/23 16:40 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.484 ± 0.467 (0.733) C:NA T:83%	pCi/L	11/06/23 14:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.216 ± 0.304 (0.652) C:84% T:83%	pCi/L	10/25/23 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.700 ± 0.771 (1.39)	pCi/L	11/06/23 16:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: DUP-5 **Lab ID: 50356305008** Collected: 10/12/23 08:00 Received: 10/12/23 16:40 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.764 ± 0.482 (0.633) C:NA T:86%	pCi/L	11/06/23 14:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.11 ± 0.440 (0.660) C:78% T:86%	pCi/L	10/25/23 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.87 ± 0.922 (1.29)	pCi/L	11/06/23 16:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Sample: DUP-6 **Lab ID: 50356305009** Collected: 10/12/23 08:00 Received: 10/12/23 16:40 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.02 ± 0.472 (0.358) C:NA T:82%	pCi/L	11/06/23 14:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.01 ± 0.504 (0.897) C:80% T:82%	pCi/L	10/25/23 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.03 ± 0.976 (1.26)	pCi/L	11/06/23 16:20	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	622866	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: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

METHOD BLANK: 3036041 Matrix: Water

Associated Lab Samples: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.391 ± 0.328 (0.652) C:83% T:83%	pCi/L	10/25/23 11:31	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

QC Batch:	622864	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: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

METHOD BLANK: 3036039 Matrix: Water

Associated Lab Samples: 50356305001, 50356305002, 50356305003, 50356305004, 50356305005, 50356305006, 50356305007, 50356305008, 50356305009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0866 ± 0.240 (0.466) C:NA T:83%	pCi/L	11/06/23 14:04	

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

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QUALIFIERS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356305001	MW-15S	EPA 9056	758032		
50356305002	MW-15I	EPA 9056	758032		
50356305003	MW-15D	EPA 9056	758032		
50356305004	MW-16S	EPA 9056	758032		
50356305005	MW-16I	EPA 9056	758032		
50356305006	MW-25I	EPA 9056	758032		
50356305007	MW-25D	EPA 9056	758032		
50356305008	DUP-5	EPA 9056	758032		
50356305009	DUP-6	EPA 9056	758032		
50356305001	MW-15S	EPA 3010	757116	EPA 6010	759081
50356305002	MW-15I	EPA 3010	757116	EPA 6010	759081
50356305003	MW-15D	EPA 3010	757116	EPA 6010	759081
50356305004	MW-16S	EPA 3010	757116	EPA 6010	759081
50356305005	MW-16I	EPA 3010	757116	EPA 6010	759081
50356305006	MW-25I	EPA 3010	757116	EPA 6010	759081
50356305007	MW-25D	EPA 3010	757116	EPA 6010	759081
50356305008	DUP-5	EPA 3010	757116	EPA 6010	759081
50356305009	DUP-6	EPA 3010	757116	EPA 6010	759081
50356305001	MW-15S	EPA 3010	757412	EPA 6010	759126
50356305002	MW-15I	EPA 3010	757412	EPA 6010	759126
50356305003	MW-15D	EPA 3010	757412	EPA 6010	759126
50356305004	MW-16S	EPA 3010	757412	EPA 6010	759126
50356305005	MW-16I	EPA 3010	757412	EPA 6010	759126
50356305006	MW-25I	EPA 3010	757412	EPA 6010	759126
50356305007	MW-25D	EPA 3010	757412	EPA 6010	759126
50356305008	DUP-5	EPA 3010	757412	EPA 6010	759126
50356305009	DUP-6	EPA 3010	757412	EPA 6010	759126
50356305001	MW-15S	EPA 200.2	757228	EPA 6020	757433
50356305002	MW-15I	EPA 200.2	757228	EPA 6020	757433
50356305003	MW-15D	EPA 200.2	757228	EPA 6020	757433
50356305004	MW-16S	EPA 200.2	757228	EPA 6020	757433
50356305005	MW-16I	EPA 200.2	757228	EPA 6020	757433
50356305006	MW-25I	EPA 200.2	757228	EPA 6020	757433
50356305007	MW-25D	EPA 200.2	757228	EPA 6020	757433
50356305008	DUP-5	EPA 200.2	757228	EPA 6020	757433
50356305009	DUP-6	EPA 200.2	757228	EPA 6020	757433
50356305001	MW-15S	EPA 903.1	622864		
50356305002	MW-15I	EPA 903.1	622864		
50356305003	MW-15D	EPA 903.1	622864		
50356305004	MW-16S	EPA 903.1	622864		
50356305005	MW-16I	EPA 903.1	622864		
50356305006	MW-25I	EPA 903.1	622864		
50356305007	MW-25D	EPA 903.1	622864		
50356305008	DUP-5	EPA 903.1	622864		
50356305009	DUP-6	EPA 903.1	622864		
50356305001	MW-15S	EPA 904.0	622866		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356305002	MW-15I	EPA 904.0	622866		
50356305003	MW-15D	EPA 904.0	622866		
50356305004	MW-16S	EPA 904.0	622866		
50356305005	MW-16I	EPA 904.0	622866		
50356305006	MW-25I	EPA 904.0	622866		
50356305007	MW-25D	EPA 904.0	622866		
50356305008	DUP-5	EPA 904.0	622866		
50356305009	DUP-6	EPA 904.0	622866		
50356305001	MW-15S	Total Radium Calculation	627629		
50356305002	MW-15I	Total Radium Calculation	627629		
50356305003	MW-15D	Total Radium Calculation	627629		
50356305004	MW-16S	Total Radium Calculation	627629		
50356305005	MW-16I	Total Radium Calculation	627629		
50356305006	MW-25I	Total Radium Calculation	627629		
50356305007	MW-25D	Total Radium Calculation	627629		
50356305008	DUP-5	Total Radium Calculation	627629		
50356305009	DUP-6	Total Radium Calculation	627629		
50356305001	MW-15S	SM 2320B	757333		
50356305002	MW-15I	SM 2320B	757333		
50356305003	MW-15D	SM 2320B	757333		
50356305004	MW-16S	SM 2320B	757333		
50356305005	MW-16I	SM 2320B	757333		
50356305006	MW-25I	SM 2320B	757333		
50356305007	MW-25D	SM 2320B	757333		
50356305008	DUP-5	SM 2320B	757333		
50356305009	DUP-6	SM 2320B	757333		
50356305001	MW-15S	SM 2540C	757915		
50356305002	MW-15I	SM 2540C	757915		
50356305003	MW-15D	SM 2540C	757915		
50356305004	MW-16S	SM 2540C	757915		
50356305005	MW-16I	SM 2540C	757915		
50356305006	MW-25I	SM 2540C	757915		
50356305007	MW-25D	SM 2540C	757915		
50356305008	DUP-5	SM 2540C	757915		
50356305009	DUP-6	SM 2540C	757915		
50356305001	MW-15S	SM 4500-H+B	758916		
50356305002	MW-15I	SM 4500-H+B	758916		
50356305003	MW-15D	SM 4500-H+B	758916		
50356305004	MW-16S	SM 4500-H+B	758916		
50356305005	MW-16I	SM 4500-H+B	758916		
50356305006	MW-25I	SM 4500-H+B	758916		
50356305007	MW-25D	SM 4500-H+B	758996		
50356305008	DUP-5	SM 4500-H+B	758996		
50356305009	DUP-6	SM 4500-H+B	758996		
50356305001	MW-15S	SM 4500-S2-D	757534		
50356305002	MW-15I	SM 4500-S2-D	757534		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356305003	MW-15D	SM 4500-S2-D	757534		
50356305004	MW-16S	SM 4500-S2-D	757534		
50356305005	MW-16I	SM 4500-S2-D	757534		
50356305006	MW-25I	SM 4500-S2-D	757534		
50356305007	MW-25D	SM 4500-S2-D	757534		
50356305008	DUP-5	SM 4500-S2-D	757534		
50356305009	DUP-6	SM 4500-S2-D	757534		
50356305001	MW-15S	HACH 8146	757930		
50356305002	MW-15I	HACH 8146	757930		
50356305003	MW-15D	HACH 8146	757931		
50356305004	MW-16S	HACH 8146	757931		
50356305005	MW-16I	HACH 8146	757931		
50356305006	MW-25I	HACH 8146	757931		
50356305007	MW-25D	HACH 8146	757931		
50356305008	DUP-5	HACH 8146	757931		
50356305009	DUP-6	HACH 8146	757931		
50356305001	MW-15S	EPA 353.2	757118		
50356305002	MW-15I	EPA 353.2	757119		
50356305003	MW-15D	EPA 353.2	757119		
50356305004	MW-16S	EPA 353.2	757118		
50356305005	MW-16I	EPA 353.2	757119		
50356305006	MW-25I	EPA 353.2	757119		
50356305007	MW-25D	EPA 353.2	757119		
50356305008	DUP-5	EPA 353.2	757118		
50356305009	DUP-6	EPA 353.2	757118		
50356305001	MW-15S	EPA 365.1	758971	EPA 365.1	759186
50356305002	MW-15I	EPA 365.1	758971	EPA 365.1	759186
50356305003	MW-15D	EPA 365.1	758971	EPA 365.1	759186
50356305004	MW-16S	EPA 365.1	758971	EPA 365.1	759186
50356305005	MW-16I	EPA 365.1	758971	EPA 365.1	759186
50356305006	MW-25I	EPA 365.1	758971	EPA 365.1	759186
50356305007	MW-25D	EPA 365.1	758971	EPA 365.1	759186
50356305008	DUP-5	EPA 365.1	758971	EPA 365.1	759186
50356305009	DUP-6	EPA 365.1	758971	EPA 365.1	759186
50356305001	MW-15S	SM 5310C	757961		
50356305002	MW-15I	SM 5310C	757961		
50356305003	MW-15D	SM 5310C	757961		
50356305004	MW-16S	SM 5310C	758402		
50356305005	MW-16I	SM 5310C	758402		
50356305006	MW-25I	SM 5310C	758402		
50356305007	MW-25D	SM 5310C	758402		
50356305008	DUP-5	SM 5310C	758402		
50356305009	DUP-6	SM 5310C	758402		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356305001	MW-15S	SM 5310C	758174		
50356305002	MW-15I	SM 5310C	758174		
50356305003	MW-15D	SM 5310C	758174		
50356305004	MW-16S	SM 5310C	758174		
50356305005	MW-16I	SM 5310C	758174		
50356305006	MW-25I	SM 5310C	758174		
50356305007	MW-25D	SM 5310C	758413		
50356305008	DUP-5	SM 5310C	758413		
50356305009	DUP-6	SM 5310C	758413		

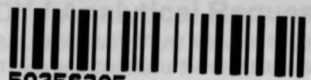
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CHAIN-OF-CUSTODY

WO#: 50356305



The Chain-of-Custody is a

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pa

Document
may be printed and used separately.
standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Atlas Indianapolis		Report To: Mark Breting		Attention: Accounts Payable - Paula Sedam	
Address: 7988 Centerpoint Drive Suite 100, Indianapolis, IN 46256		Copy To:		Company Name: Atlas Indianapolis	
Email: mark.breting@oneatlas.com		Purchase Order #:		Address:	
Phone: 317-313-8306 Fax		Project Name: Eagle Valley October 2023		Pace Quote:	
Requested Due Date:		Project #: 1704FD1503		Pace Project Manager: will.statz@pacelabs.com	
				Pace Profile #: 10498/46	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analyses Test Y/N	Requested Analysis Filtered (Y/N)										
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Total Metals by 6010/6020		Diss metals by 6010	TDS by 2540C	TOC by 5310	DOC by 5310	Alkalinity / pH / Ferrous Fe	NO2/NO3 by 353.2	Sulfide by 4500	Total Phos by 365.1	C. F. SO4 by 9056	Rad 226/228 + SUM to Pitt	Residual Chlorine (Y/N)
				DATE	TIME	DATE	TIME																							
1	MW-15J		WTG	10/12	1105			11	3	3	4	1					X	X	X	X	X	X	X	X	X	X	X	X	X	
2	MW-151				1300																									
3	MW-15D				1435																									
4	MW-14V				1110																									
5	MW-141				1230																									
6	MW-251				1340																									
7	MW-25D				1135																									
8	DVP-5				-																									
9	DVP-4				-																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	[Signature] / Atlas	10/12/23	1040	[Signature]	10/12/23	16:40	1.8	Y	N	Y
6020 - Co, As, Se, Sb, Ba (5)							1.6			
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, sila (11)							0.9			
6010 Dis - Mn, Mo (2)							0.9			

PIR3

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	<i>ERIKVA VARRIO / HAYLEY TORRES / KELGAN LAWHEAD</i>
SIGNATURE of SAMPLER:	[Signature] DATE Signed: <u>10/12/2023</u>

TEMP in C
 Received on Ice (Y/N)
 Sealed Custody Container (Y/N)
 Packed Samples Intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/12/23 18:09 JG

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**
4. Cooler Temperature(s): 1.9/1.8 1.7/1.6 1.0/0.9 1.0/0.9
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		—	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>Nitrate, Nitrite</u>	—		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	—		
Time 5035A TC placed in Freezer or Short Holds To Lab Time:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		—	Residual Chlorine Check (Total/Amenable/Free Cyanide)			—
Custody Signatures Present?	—		Headspace Wisconsin Sulfide?			—
Containers Intact?:	—		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	—		Trip Blank Present?		—	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			—

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	MeOH (only)		VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS						BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	OTHER	Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc
				SBS	DI					Red	Yellow	Green	Black																				
				R						HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9																				
1														1					1								1	WT	✓	✓		✓	
2															2	1	2			1	1												
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass			
DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic			
BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic	Miscellaneous	
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic	Syringe Kit	LL Cr+6 sampling kit
BP2C	500mL NaOH plastic	ZPLOC	Ziploc Bag
BP2S	500mL H2SO4 plastic	R	Terracore Kit
BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
BP2Z	500mL NaOH, Zn Ac	GN	General Container
BP3B	250mL NaOH plastic	U	Summa Can (air sample)
BP3N	250mL HNO3 plastic	WT	Water
BP3F	250mL HNO3 plastic-field filtered	SL	Solid
BP3U	250mL unpreserved plastic	OL:	Oil
BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe
BP3R	250mL Unpres. FF SO4/OH buffer		



February 08, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R2
Pace Project No.: 50356477

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 13, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50356477001	MW-16D	Water	10/13/23 11:55	10/13/23 18:00
50356477002	MW-24D	Water	10/13/23 12:40	10/13/23 18:00
50356477003	MW-25S	Water	10/13/23 10:35	10/13/23 18:00
50356477004	MW-24D MS	Water	10/13/23 12:40	10/13/23 18:00
50356477005	MW-24D MSD	Water	10/13/23 12:40	10/13/23 18:00

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356477001	MW-16D	EPA 9056	ADM, KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	MGM	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50356477002	MW-24D	EPA 9056	ADM, KBB
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	MGM			5	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	BEP			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50356477003	MW-25S			EPA 9056	ADM, KBB
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	MGM	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	BEP	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
50356477004	MW-24D MS	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
50356477005	MW-24D MSD	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA

PASI-I = Pace Analytical Services - Indianapolis
 PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356477

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356477001	MW-16D					
EPA 9056	Chloride	91.1	mg/L	2.5	10/29/23 19:36	
EPA 9056	Fluoride	0.33	mg/L	0.10	10/28/23 22:24	
EPA 9056	Sulfate	70.8	mg/L	2.5	10/29/23 19:36	
EPA 6010	Boron	122	ug/L	100	10/27/23 15:31	
EPA 6010	Calcium	80700	ug/L	1000	10/27/23 15:31	
EPA 6010	Iron	1080	ug/L	100	10/27/23 15:31	
EPA 6010	Lithium	32.7	ug/L	20.0	10/27/23 15:31	
EPA 6010	Magnesium	20100	ug/L	1000	10/27/23 15:31	
EPA 6010	Manganese	192	ug/L	10.0	10/27/23 15:31	
EPA 6010	Molybdenum	42.0	ug/L	10.0	10/27/23 15:31	
EPA 6010	Potassium	7880	ug/L	1000	10/27/23 15:31	
EPA 6010	Silica	10900	ug/L	450	10/27/23 15:31	N2
EPA 6010	Sodium	62100	ug/L	1000	10/27/23 15:31	
EPA 6010	Manganese, Dissolved	194	ug/L	10.0	10/26/23 15:38	
EPA 6010	Molybdenum, Dissolved	44.8	ug/L	10.0	10/26/23 15:38	
EPA 6020	Arsenic	4.5	ug/L	1.0	10/20/23 19:47	
EPA 6020	Barium	61.0	ug/L	1.0	10/20/23 19:47	
EPA 903.1	Radium-226	0.771 ± 0.841 (1.37) C:NA T:90%	pCi/L		11/06/23 14:52	
EPA 904.0	Radium-228	0.863 ± 0.443 (0.772) C:80% T:80%	pCi/L		11/01/23 14:17	
Total Radium Calculation	Total Radium	1.63 ± 1.28 (2.14)	pCi/L		11/07/23 15:05	
SM 2320B	Alkalinity, Total as CaCO3	214	mg/L	10.0	10/17/23 20:51	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	214	mg/L	10.0	10/17/23 20:51	
SM 2540C	Total Dissolved Solids	494	mg/L	10.0	10/19/23 17:49	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	10/26/23 12:53	H3
HACH 8146	Iron, Ferrous	0.37	mg/L	0.20	10/18/23 15:43	H3,N2
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	10/21/23 03:29	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/24/23 15:54	
50356477002	MW-24D					
EPA 9056	Chloride	63.9	mg/L	2.5	10/29/23 19:53	
EPA 9056	Fluoride	0.30	mg/L	0.10	10/28/23 23:00	
EPA 9056	Sulfate	48.5	mg/L	2.5	10/29/23 19:53	
EPA 6010	Calcium	69300	ug/L	1000	10/27/23 15:32	
EPA 6010	Iron	977	ug/L	100	10/27/23 15:32	
EPA 6010	Magnesium	21600	ug/L	1000	10/27/23 15:32	
EPA 6010	Manganese	145	ug/L	10.0	10/27/23 15:32	
EPA 6010	Molybdenum	11.8	ug/L	10.0	10/27/23 15:32	
EPA 6010	Potassium	4250	ug/L	1000	10/27/23 15:32	
EPA 6010	Silica	9680	ug/L	450	10/27/23 15:32	N2
EPA 6010	Sodium	53800	ug/L	1000	10/27/23 15:32	
EPA 6010	Manganese, Dissolved	142	ug/L	10.0	10/26/23 15:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356477002	MW-24D					
EPA 6010	Molybdenum, Dissolved	12.8	ug/L	10.0	10/26/23 15:40	
EPA 6020	Arsenic	2.3	ug/L	1.0	10/20/23 19:51	
EPA 6020	Barium	62.7	ug/L	1.0	10/20/23 19:51	
EPA 903.1	Radium-226	0.887 ± 0.497 (0.515)	pCi/L		11/06/23 14:52	
EPA 904.0	Radium-228	C:NA T:87% 0.558 ± 0.365 (0.677)	pCi/L		11/01/23 14:18	
Total Radium Calculation	Total Radium	C:81% T:81% 1.45 ± 0.862 (1.19)	pCi/L		11/07/23 15:05	
SM 2320B	Alkalinity, Total as CaCO3	235	mg/L	10.0	10/17/23 20:51	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	235	mg/L	10.0	10/17/23 20:51	
SM 2540C	Total Dissolved Solids	398	mg/L	10.0	10/19/23 17:50	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	10/26/23 12:53	H3
HACH 8146	Iron, Ferrous	0.62	mg/L	0.20	10/18/23 15:44	H3,N2
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	10/21/23 03:39	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/24/23 16:19	
50356477003	MW-25S					
EPA 9056	Chloride	82.5	mg/L	2.5	10/29/23 20:09	
EPA 9056	Fluoride	0.32	mg/L	0.10	10/28/23 23:56	
EPA 9056	Sulfate	61.0	mg/L	2.5	10/29/23 20:09	
EPA 6010	Boron	331	ug/L	100	10/27/23 15:37	
EPA 6010	Calcium	80300	ug/L	1000	10/27/23 15:37	
EPA 6010	Lithium	53.4	ug/L	20.0	10/27/23 15:37	
EPA 6010	Magnesium	22000	ug/L	1000	10/27/23 15:37	
EPA 6010	Manganese	575	ug/L	10.0	10/27/23 15:37	
EPA 6010	Molybdenum	65.9	ug/L	10.0	10/27/23 15:37	
EPA 6010	Potassium	6720	ug/L	1000	10/27/23 15:37	
EPA 6010	Silica	10900	ug/L	450	10/27/23 15:37	N2
EPA 6010	Sodium	65300	ug/L	1000	10/27/23 15:37	
EPA 6010	Manganese, Dissolved	577	ug/L	10.0	10/26/23 15:51	
EPA 6010	Molybdenum, Dissolved	66.6	ug/L	10.0	10/26/23 15:51	
EPA 6020	Barium	87.5	ug/L	1.0	10/20/23 19:55	
EPA 903.1	Radium-226	0.120 ± 0.409 (0.789)	pCi/L		11/06/23 14:52	
EPA 904.0	Radium-228	C:NA T:89% 0.313 ± 0.355 (0.742)	pCi/L		11/01/23 14:18	
Total Radium Calculation	Total Radium	C:77% T:78% 0.433 ± 0.764 (1.53)	pCi/L		11/07/23 15:05	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356477003	MW-25S					
SM 2320B	Alkalinity, Total as CaCO3	244	mg/L	10.0	10/17/23 20:51	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	10/17/23 20:51	
SM 2540C	Total Dissolved Solids	455	mg/L	10.0	10/19/23 17:50	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/26/23 12:54	H3
SM 5310C	Total Organic Carbon	1.3	mg/L	1.0	10/21/23 04:18	
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	10/24/23 17:57	
50356477004	MW-24D MS					
EPA 903.1	Radium-226	88.76 %REC ± NA (NA) C:NA T:NA	pCi/L		11/06/23 15:20	
EPA 904.0	Radium-228	105.84 %REC ± NA (NA) C:NA T:NA	pCi/L		11/01/23 14:18	
50356477005	MW-24D MSD					
EPA 903.1	Radium-226	92.30 %REC 3.91RPD ± NA (NA) C:NA T:NA	pCi/L		11/06/23 14:52	
EPA 904.0	Radium-228	102.76 %REC 2.96RPD ± NA (NA) C:NA T:NA	pCi/L		11/01/23 14:18	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Sample: MW-16D		Lab ID: 50356477001		Collected: 10/13/23 11:55		Received: 10/13/23 18:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	91.1	mg/L	2.5	0.67	10		10/29/23 19:36	16887-00-6	
Fluoride	0.33	mg/L	0.10	0.017	1		10/28/23 22:24	16984-48-8	
Sulfate	70.8	mg/L	2.5	1.9	10		10/29/23 19:36	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/17/23 08:34	10/27/23 15:31	7429-90-5	
Boron	122	ug/L	100	11.4	1	10/17/23 08:34	10/27/23 15:31	7440-42-8	
Calcium	80700	ug/L	1000	56.7	1	10/17/23 08:34	10/27/23 15:31	7440-70-2	
Iron	1080	ug/L	100	18.1	1	10/17/23 08:34	10/27/23 15:31	7439-89-6	
Lithium	32.7	ug/L	20.0	5.1	1	10/17/23 08:34	10/27/23 15:31	7439-93-2	
Magnesium	20100	ug/L	1000	32.8	1	10/17/23 08:34	10/27/23 15:31	7439-95-4	
Manganese	192	ug/L	10.0	1.1	1	10/17/23 08:34	10/27/23 15:31	7439-96-5	
Molybdenum	42.0	ug/L	10.0	1.1	1	10/17/23 08:34	10/27/23 15:31	7439-98-7	
Potassium	7880	ug/L	1000	120	1	10/17/23 08:34	10/27/23 15:31	7440-09-7	
Silica	10900	ug/L	450		1	10/17/23 08:34	10/27/23 15:31	7631-86-9	N2
Sodium	62100	ug/L	1000	48.2	1	10/17/23 08:34	10/27/23 15:31	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	194	ug/L	10.0	1.1	1	10/17/23 08:20	10/26/23 15:38	7439-96-5	
Molybdenum, Dissolved	44.8	ug/L	10.0	1.1	1	10/17/23 08:20	10/26/23 15:38	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.13	1	10/18/23 07:40	10/20/23 19:47	7440-36-0	
Arsenic	4.5	ug/L	1.0	0.10	1	10/18/23 07:40	10/20/23 19:47	7440-38-2	
Barium	61.0	ug/L	1.0	0.14	1	10/18/23 07:40	10/20/23 19:47	7440-39-3	
Cobalt	ND	ug/L	1.0	0.082	1	10/18/23 07:40	10/20/23 19:47	7440-48-4	
Selenium	ND	ug/L	1.0	0.44	1	10/18/23 07:40	10/20/23 19:47	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	214	mg/L	10.0	10.0	1		10/17/23 20:51		
Alkalinity,Bicarbonate (CaCO3)	214	mg/L	10.0	10.0	1		10/17/23 20:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 20:51		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	494	mg/L	10.0	10.0	1		10/19/23 17:49		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.0	Std. Units	0.10	0.10	1		10/26/23 12:53		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Sample: MW-16D		Lab ID: 50356477001		Collected: 10/13/23 11:55	Received: 10/13/23 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	0.37	mg/L	0.20	0.035	1		10/18/23 15:43	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/13/23 22:26	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/13/23 22:26	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 13:00	10/25/23 17:25			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.7	mg/L	1.0	0.24	1		10/21/23 03:29	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/24/23 15:54			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356477

Sample: MW-24D **Lab ID: 50356477002** Collected: 10/13/23 12:40 Received: 10/13/23 18:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	63.9	mg/L	2.5	0.67	10		10/29/23 19:53	16887-00-6	
Fluoride	0.30	mg/L	0.10	0.017	1		10/28/23 23:00	16984-48-8	
Sulfate	48.5	mg/L	2.5	1.9	10		10/29/23 19:53	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/17/23 08:34	10/27/23 15:32	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/17/23 08:34	10/27/23 15:32	7440-42-8	
Calcium	69300	ug/L	1000	56.7	1	10/17/23 08:34	10/27/23 15:32	7440-70-2	
Iron	977	ug/L	100	18.1	1	10/17/23 08:34	10/27/23 15:32	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/17/23 08:34	10/27/23 15:32	7439-93-2	
Magnesium	21600	ug/L	1000	32.8	1	10/17/23 08:34	10/27/23 15:32	7439-95-4	
Manganese	145	ug/L	10.0	1.1	1	10/17/23 08:34	10/27/23 15:32	7439-96-5	
Molybdenum	11.8	ug/L	10.0	1.1	1	10/17/23 08:34	10/27/23 15:32	7439-98-7	
Potassium	4250	ug/L	1000	120	1	10/17/23 08:34	10/27/23 15:32	7440-09-7	
Silica	9680	ug/L	450		1	10/17/23 08:34	10/27/23 15:32	7631-86-9	N2
Sodium	53800	ug/L	1000	48.2	1	10/17/23 08:34	10/27/23 15:32	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	142	ug/L	10.0	1.1	1	10/17/23 08:20	10/26/23 15:40	7439-96-5	
Molybdenum, Dissolved	12.8	ug/L	10.0	1.1	1	10/17/23 08:20	10/26/23 15:40	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.13	1	10/18/23 07:40	10/20/23 19:51	7440-36-0	
Arsenic	2.3	ug/L	1.0	0.10	1	10/18/23 07:40	10/20/23 19:51	7440-38-2	
Barium	62.7	ug/L	1.0	0.14	1	10/18/23 07:40	10/20/23 19:51	7440-39-3	
Cobalt	ND	ug/L	1.0	0.082	1	10/18/23 07:40	10/20/23 19:51	7440-48-4	
Selenium	ND	ug/L	1.0	0.44	1	10/18/23 07:40	10/20/23 19:51	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	235	mg/L	10.0	10.0	1		10/17/23 20:51		
Alkalinity,Bicarbonate (CaCO3)	235	mg/L	10.0	10.0	1		10/17/23 20:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 20:51		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	398	mg/L	10.0	10.0	1		10/19/23 17:50		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	0.10	1		10/26/23 12:53		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Sample: MW-24D		Lab ID: 50356477002		Collected: 10/13/23 12:40	Received: 10/13/23 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	0.62	mg/L	0.20	0.035	1		10/18/23 15:44	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/13/23 22:28	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/13/23 22:28	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 13:00	10/25/23 17:41			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.7	mg/L	1.0	0.24	1		10/21/23 03:39	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/24/23 16:19			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356477

Sample: MW-25S Lab ID: 50356477003 Collected: 10/13/23 10:35 Received: 10/13/23 18:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Chloride	82.5	mg/L	2.5	0.67	10		10/29/23 20:09	16887-00-6	
Fluoride	0.32	mg/L	0.10	0.017	1		10/28/23 23:56	16984-48-8	
Sulfate	61.0	mg/L	2.5	1.9	10		10/29/23 20:09	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/17/23 08:34	10/27/23 15:37	7429-90-5	
Boron	331	ug/L	100	11.4	1	10/17/23 08:34	10/27/23 15:37	7440-42-8	
Calcium	80300	ug/L	1000	56.7	1	10/17/23 08:34	10/27/23 15:37	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/17/23 08:34	10/27/23 15:37	7439-89-6	
Lithium	53.4	ug/L	20.0	5.1	1	10/17/23 08:34	10/27/23 15:37	7439-93-2	
Magnesium	22000	ug/L	1000	32.8	1	10/17/23 08:34	10/27/23 15:37	7439-95-4	
Manganese	575	ug/L	10.0	1.1	1	10/17/23 08:34	10/27/23 15:37	7439-96-5	
Molybdenum	65.9	ug/L	10.0	1.1	1	10/17/23 08:34	10/27/23 15:37	7439-98-7	
Potassium	6720	ug/L	1000	120	1	10/17/23 08:34	10/27/23 15:37	7440-09-7	
Silica	10900	ug/L	450		1	10/17/23 08:34	10/27/23 15:37	7631-86-9	N2
Sodium	65300	ug/L	1000	48.2	1	10/17/23 08:34	10/27/23 15:37	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis									
Manganese, Dissolved	577	ug/L	10.0	1.1	1	10/17/23 08:20	10/26/23 15:51	7439-96-5	
Molybdenum, Dissolved	66.6	ug/L	10.0	1.1	1	10/17/23 08:20	10/26/23 15:51	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.13	1	10/18/23 07:40	10/20/23 19:55	7440-36-0	
Arsenic	ND	ug/L	1.0	0.10	1	10/18/23 07:40	10/20/23 19:55	7440-38-2	
Barium	87.5	ug/L	1.0	0.14	1	10/18/23 07:40	10/20/23 19:55	7440-39-3	
Cobalt	ND	ug/L	1.0	0.082	1	10/18/23 07:40	10/20/23 19:55	7440-48-4	
Selenium	ND	ug/L	1.0	0.44	1	10/18/23 07:40	10/20/23 19:55	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	244	mg/L	10.0	10.0	1		10/17/23 20:51		
Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	10.0	1		10/17/23 20:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 20:51		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	455	mg/L	10.0	10.0	1		10/19/23 17:50		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		10/26/23 12:54		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Sample: MW-25S		Lab ID: 50356477003		Collected: 10/13/23 10:35	Received: 10/13/23 18:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/16/23 15:44	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:41	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/13/23 22:24	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/13/23 22:24	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 13:00	10/25/23 17:26			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.3	mg/L	1.0	0.24	1		10/21/23 04:18	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.0	mg/L	1.0	0.24	1		10/24/23 17:57			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	758852	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356477001, 50356477002, 50356477003

METHOD BLANK: 3477627 Matrix: Water

Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/28/23 18:06	
Fluoride	mg/L	ND	0.10	0.017	10/28/23 18:06	
Sulfate	mg/L	ND	0.25	0.19	10/28/23 18:06	

LABORATORY CONTROL SAMPLE: 3477628

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3477629 3477630

Parameter	Units	50356477002		3477629		3477630		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	63.9	25	25	87.8	87.5	96	94	80-120	0	15		
Fluoride	mg/L	0.30	1	1	1.3	1.3	96	97	80-120	0	15		
Sulfate	mg/L	48.5	50	50	94.7	94.8	92	93	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2
Pace Project No.: 50356477

QC Batch: 757409 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356477001, 50356477002, 50356477003

METHOD BLANK: 3471666 Matrix: Water
Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/27/23 14:00	
Boron	ug/L	ND	100	11.4	10/27/23 14:00	
Calcium	ug/L	ND	1000	56.7	10/27/23 14:00	
Iron	ug/L	ND	100	18.1	10/27/23 14:00	
Lithium	ug/L	ND	20.0	5.1	10/27/23 14:00	
Magnesium	ug/L	ND	1000	32.8	10/27/23 14:00	
Manganese	ug/L	ND	10.0	1.1	10/27/23 14:00	
Molybdenum	ug/L	ND	10.0	1.1	10/27/23 14:00	
Potassium	ug/L	ND	1000	120	10/27/23 14:00	
Silica	ug/L	ND	450		10/27/23 14:00	N2
Sodium	ug/L	ND	1000	48.2	10/27/23 14:00	

LABORATORY CONTROL SAMPLE: 3471667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9840	98	80-120	
Boron	ug/L	1000	937	94	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Iron	ug/L	10000	9620	96	80-120	
Lithium	ug/L	1000	972	97	80-120	
Magnesium	ug/L	10000	9490	95	80-120	
Manganese	ug/L	1000	1020	102	80-120	
Molybdenum	ug/L	1000	996	100	80-120	
Potassium	ug/L	10000	9840	98	80-120	
Silica	ug/L	10700	10600	99	80-120	N2
Sodium	ug/L	10000	9940	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471668 3471669

Parameter	Units	50356477002		3471669		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Aluminum	ug/L	ND	10000	10100	10100	100	101	75-125	0	20	
Boron	ug/L	ND	1000	1080	1080	100	100	75-125	1	20	
Calcium	ug/L	69300	10000	79700	79800	104	105	75-125	0	20	
Iron	ug/L	977	10000	10900	11000	99	100	75-125	1	20	
Lithium	ug/L	ND	1000	999	1010	99	100	75-125	1	20	
Magnesium	ug/L	21600	10000	31500	31600	99	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471668 3471669													
Parameter	Units	50356477002		MS	MSD	3471669		% Rec	% Rec	% Rec	Max		
		Result	Conc.	Spike	Conc.	MS	MSD					MS	MSD
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Manganese	ug/L	145	1000	1000	1000	1190	1190	104	105	75-125	0	20	
Molybdenum	ug/L	11.8	1000	1000	1000	1080	1080	106	107	75-125	0	20	
Potassium	ug/L	4250	10000	10000	10000	14400	14500	102	102	75-125	0	20	
Silica	ug/L	9680	10700	10700	10700	21100	21000	106	106	75-125	0	20	N2
Sodium	ug/L	53800	10000	10000	10000	63500	63800	97	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	757413	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356477001, 50356477002, 50356477003

METHOD BLANK: 3471684 Matrix: Water

Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/26/23 14:50	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/26/23 14:50	

LABORATORY CONTROL SAMPLE: 3471685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1060	106	80-120	
Molybdenum, Dissolved	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471686 3471687

Parameter	Units	50356314008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	89.7	1000	1000	1060	1060	97	97	75-125	0	20	
Molybdenum, Dissolved	ug/L	ND	1000	1000	1000	1010	100	100	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471688 3471689

Parameter	Units	50356369004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	<10.0	1000	1000	1030	994	103	99	75-125	4	20	
Molybdenum, Dissolved	ug/L	<10.0	1000	1000	1080	1030	108	103	75-125	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471690 3471691

Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	142	1000	1000	1150	1120	101	98	75-125	3	20	
Molybdenum, Dissolved	ug/L	12.8	1000	1000	1070	1040	106	102	75-125	3	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356477

QC Batch: 757807 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356477001, 50356477002, 50356477003

METHOD BLANK: 3472871 Matrix: Water
 Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.13	10/20/23 16:10	
Arsenic	ug/L	ND	1.0	0.10	10/20/23 16:10	
Barium	ug/L	ND	1.0	0.14	10/20/23 16:10	
Cobalt	ug/L	ND	1.0	0.082	10/20/23 16:10	
Selenium	ug/L	ND	1.0	0.44	10/20/23 16:10	

LABORATORY CONTROL SAMPLE: 3472872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.2	105	80-120	
Arsenic	ug/L	40	39.8	100	80-120	
Barium	ug/L	40	38.4	96	80-120	
Cobalt	ug/L	40	40.9	102	80-120	
Selenium	ug/L	40	39.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472873 3472874

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356477002	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	43.0	42.8	107	107	75-125	0	20
Arsenic	ug/L	2.3	40	40	43.6	43.7	103	103	75-125	0	20
Barium	ug/L	62.7	40	40	107	107	110	110	75-125	0	20
Cobalt	ug/L	ND	40	40	38.0	37.8	95	94	75-125	1	20
Selenium	ug/L	ND	40	40	39.8	38.6	99	96	75-125	3	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	757857	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356477001, 50356477002, 50356477003

METHOD BLANK: 3473117 Matrix: Water
 Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/17/23 20:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 20:51	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 20:51	

LABORATORY CONTROL SAMPLE: 3473118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.5	97	90-110	

SAMPLE DUPLICATE: 3473119

Parameter	Units	50356488001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	353	364	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	353	364	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3473120

Parameter	Units	50356477002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	235	240	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	235	240	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	758196	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356477001, 50356477002, 50356477003		

METHOD BLANK: 3474634 Matrix: Water

Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/19/23 17:48	

LABORATORY CONTROL SAMPLE: 3474635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	285	95	80-120	

SAMPLE DUPLICATE: 3474636

Parameter	Units	50356567005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	4730	4610	2	10	

SAMPLE DUPLICATE: 3474637

Parameter	Units	50356477002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	398	415	4	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch: 759303

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356477001, 50356477002, 50356477003

SAMPLE DUPLICATE: 3479710

Parameter	Units	50356209001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	4.5	4.5	0	2	H3

SAMPLE DUPLICATE: 3479711

Parameter	Units	50356477002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.2	2	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	757534	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356477001, 50356477002, 50356477003			

METHOD BLANK: 3471955 Matrix: Water
 Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/16/23 15:44	

LABORATORY CONTROL SAMPLE: 3471956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471957 3471958

Parameter	Units	50356278002		3471957		3471958		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfide	mg/L	ND	ND	0.5	0.5	0.49	0.49	95	96	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471959 3471960

Parameter	Units	50356477002		3471959		3471960		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfide	mg/L	ND	ND	0.5	0.5	0.56	0.55	110	108	90-110	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	757931	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356477001, 50356477002, 50356477003		

METHOD BLANK: 3473380 Matrix: Water
 Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 15:39	H3,N2

LABORATORY CONTROL SAMPLE: 3473381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473382 3473383

Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	0.62	1	1	1.6	1.6	100	103	90-110	2	20	H3,N2

MATRIX SPIKE SAMPLE: 3473384

Parameter	Units	50356558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	102	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	757342	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356477001, 50356477002, 50356477003		

METHOD BLANK: 3471073 Matrix: Water

Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/13/23 22:21	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/13/23 22:21	

LABORATORY CONTROL SAMPLE: 3471074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.99	99	90-110	
Nitrogen, Nitrite	mg/L	1	1.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471075 3471076

Parameter	Units	50356477002		3471076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, Nitrate	mg/L	ND	1	1	0.99	0.97	98	96	90-110	2	20
Nitrogen, Nitrite	mg/L	ND	1	1	1.0	1.0	99	99	90-110	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	758975	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356477001, 50356477003

METHOD BLANK: 3478306 Matrix: Water

Associated Lab Samples: 50356477001, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/25/23 17:22	

LABORATORY CONTROL SAMPLE: 3478307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3478308 3478309

Parameter	Units	50356461004		3478309		% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result			
Phosphate as P04	mg/L	144		195	160		20	

MATRIX SPIKE SAMPLE: 3478310

Parameter	Units	50357029002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.1	2.5			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch: 758977	Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1	Analysis Description: 365.1 Total Phosphorus
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356477002

METHOD BLANK: 3478315 Matrix: Water

Associated Lab Samples: 50356477002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/25/23 17:39	

LABORATORY CONTROL SAMPLE: 3478316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3478317 3478318

Parameter	Units	50356477002		3478318		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Phosphate as P04	mg/L	ND		1.6	1.5				1		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	758402	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356477001, 50356477002, 50356477003

METHOD BLANK: 3475741 Matrix: Water
 Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/21/23 01:36	

LABORATORY CONTROL SAMPLE: 3475742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475743 3475744

Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.7	10	10	11.0	11.2	94	95	80-120	1	20	

MATRIX SPIKE SAMPLE: 3475745

Parameter	Units	50356477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.3	10	10.8	95	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	758413	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356477001, 50356477002, 50356477003		

METHOD BLANK: 3475782 Matrix: Water

Associated Lab Samples: 50356477001, 50356477002, 50356477003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/24/23 12:48	

LABORATORY CONTROL SAMPLE: 3475783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475784 3475785

Parameter	Units	50356477002		50356477003		3475784		3475785		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Dissolved Organic Carbon	mg/L	1.4	10	10	10.9	10.9	95	96	80-120	1	20		

MATRIX SPIKE SAMPLE: 3475786

Parameter	Units	50356477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.0	10	10.7	97	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-16D Lab ID: 50356477001 Collected: 10/13/23 11:55 Received: 10/13/23 18:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.771 ± 0.841 (1.37) C:NA T:90%	pCi/L	11/06/23 14:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.863 ± 0.443 (0.772) C:80% T:80%	pCi/L	11/01/23 14:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.63 ± 1.28 (2.14)	pCi/L	11/07/23 15:05	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Sample: MW-24D **Lab ID: 50356477002** Collected: 10/13/23 12:40 Received: 10/13/23 18:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.887 ± 0.497 (0.515) C:NA T:87%	pCi/L	11/06/23 14:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.558 ± 0.365 (0.677) C:81% T:81%	pCi/L	11/01/23 14:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.45 ± 0.862 (1.19)	pCi/L	11/07/23 15:05	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.120 ± 0.409 (0.789) C:NA T:89%	pCi/L	11/06/23 14:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.313 ± 0.355 (0.742) C:77% T:78%	pCi/L	11/01/23 14:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.433 ± 0.764 (1.53)	pCi/L	11/07/23 15:05	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-24D MS Lab ID: 50356477004 Collected: 10/13/23 12:40 Received: 10/13/23 18:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	88.76 %REC ± NA (NA) C:NA T:NA	pCi/L	11/06/23 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	105.84 %REC ± NA (NA) C:NA T:NA	pCi/L	11/01/23 14:18	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	92.30 %REC 3.91RPD ± NA (NA) C:NA T:NA	pCi/L	11/06/23 14:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	102.76 %REC 2.96RPD ± NA (NA) C:NA T:NA	pCi/L	11/01/23 14:18	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch: 624104

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: 50356477001, 50356477002, 50356477003, 50356477004, 50356477005

METHOD BLANK: 3042562

Matrix: Water

Associated Lab Samples: 50356477001, 50356477002, 50356477003, 50356477004, 50356477005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0466 ± 0.213 (0.502) C:NA T:87%	pCi/L	11/06/23 14:52	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

QC Batch:	624107	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: 50356477001, 50356477002, 50356477003, 50356477004, 50356477005

METHOD BLANK: 3042563 Matrix: Water

Associated Lab Samples: 50356477001, 50356477002, 50356477003, 50356477004, 50356477005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.674 ± 0.376 (0.667) C:82% T:82%	pCi/L	11/01/23 14:17	

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

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QUALIFIERS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356477001	MW-16D	EPA 9056	758852		
50356477002	MW-24D	EPA 9056	758852		
50356477003	MW-25S	EPA 9056	758852		
50356477001	MW-16D	EPA 3010	757409	EPA 6010	759507
50356477002	MW-24D	EPA 3010	757409	EPA 6010	759507
50356477003	MW-25S	EPA 3010	757409	EPA 6010	759507
50356477001	MW-16D	EPA 3010	757413	EPA 6010	759333
50356477002	MW-24D	EPA 3010	757413	EPA 6010	759333
50356477003	MW-25S	EPA 3010	757413	EPA 6010	759333
50356477001	MW-16D	EPA 200.2	757807	EPA 6020	758030
50356477002	MW-24D	EPA 200.2	757807	EPA 6020	758030
50356477003	MW-25S	EPA 200.2	757807	EPA 6020	758030
50356477001	MW-16D	EPA 903.1	624104		
50356477002	MW-24D	EPA 903.1	624104		
50356477003	MW-25S	EPA 903.1	624104		
50356477004	MW-24D MS	EPA 903.1	624104		
50356477005	MW-24D MSD	EPA 903.1	624104		
50356477001	MW-16D	EPA 904.0	624107		
50356477002	MW-24D	EPA 904.0	624107		
50356477003	MW-25S	EPA 904.0	624107		
50356477004	MW-24D MS	EPA 904.0	624107		
50356477005	MW-24D MSD	EPA 904.0	624107		
50356477001	MW-16D	Total Radium Calculation	627940		
50356477002	MW-24D	Total Radium Calculation	627940		
50356477003	MW-25S	Total Radium Calculation	627940		
50356477001	MW-16D	SM 2320B	757857		
50356477002	MW-24D	SM 2320B	757857		
50356477003	MW-25S	SM 2320B	757857		
50356477001	MW-16D	SM 2540C	758196		
50356477002	MW-24D	SM 2540C	758196		
50356477003	MW-25S	SM 2540C	758196		
50356477001	MW-16D	SM 4500-H+B	759303		
50356477002	MW-24D	SM 4500-H+B	759303		
50356477003	MW-25S	SM 4500-H+B	759303		
50356477001	MW-16D	SM 4500-S2-D	757534		
50356477002	MW-24D	SM 4500-S2-D	757534		
50356477003	MW-25S	SM 4500-S2-D	757534		
50356477001	MW-16D	HACH 8146	757931		
50356477002	MW-24D	HACH 8146	757931		
50356477003	MW-25S	HACH 8146	757931		
50356477001	MW-16D	EPA 353.2	757342		
50356477002	MW-24D	EPA 353.2	757342		
50356477003	MW-25S	EPA 353.2	757342		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356477001	MW-16D	EPA 365.1	758975	EPA 365.1	759189
50356477002	MW-24D	EPA 365.1	758977	EPA 365.1	759190
50356477003	MW-25S	EPA 365.1	758975	EPA 365.1	759189
50356477001	MW-16D	SM 5310C	758402		
50356477002	MW-24D	SM 5310C	758402		
50356477003	MW-25S	SM 5310C	758402		
50356477001	MW-16D	SM 5310C	758413		
50356477002	MW-24D	SM 5310C	758413		
50356477003	MW-25S	SM 5310C	758413		

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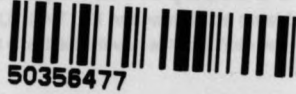


CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions.

WO#: 50356477



Terms.pdf

Page: 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Atlas Indianapolis		Report To: Mark Breting		Attention: Accounts Payable	
Address: 7988 Centerpoint Drive Suite 100, Indianapolis, IN 46256		Copy To:		Company Name: Atlas Indianapolis	
Email: mark.breting@oneatlas.com		Purchase Order #:		Address:	
Phone: 317-313-8306 Fax		Project Name: Eagle Valley October 2023		Pace Quote:	
Requested Due Date:		Project #: 170LF01502		Pace Project Manager: will.statz@pacelabs.com	
				Pace Profile #: 10498/46	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	COLLECTED START DATE TIME	END DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)				
							Unpreserved											Total Metals by 6010/6020	Diss metals by 6010	TDS by 2540C	TOC by 5310	DOC by 5310	Alkalinity / pH / Ferrous Fe	NO2/NO3 by 353.2	Sulfide by 4500	Total Phos by 365.1	C, F, SO4 by 9056		Rad 226/228 + SUM to Pitt			
							H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																			
1	MW-1UD	WTG	10/13	1155		11	3	3	4	1																						601
2	MW-2H P(ms/msd-3)	WTG	10/13	1240		11	3	3	4	1																						602
3	MW-25S (ms/msd-3)	WTG	10/13	1036		11	3	3	4	1																						603
4	ms-3	WTG	10/13	1240		11	3	3	4	1																						604
5	msd-3	WTG	10/13	1240		11	3	3	4	1																						605

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NO2/NO3 has a SH time of 48 hours				<i>[Signature]</i>	10/13/23	18:00	Y N Y 3:4
6020 - Co, As, Se, Sb, Ba (5)							
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, sila (11)							
6010 Dis - Mn, Mo (2)							

PIR2

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Erika Vayerio / Keegan Lawhead						
SIGNATURE of SAMPLER: <i>[Signature]</i>						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/13/23 18:00 JG

- 1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No
(If yes) Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**

0.60.6	3.4/3.4		
--------	---------	--	--
- 4. Cooler Temperature(s):

0.60.6	3.4/3.4		
--------	---------	--	--

 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
- 6. Ice Type: Wet Blue None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		—	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate, Nitrite	—		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	—		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: 19:27			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		—	Residual Chlorine Check (Total/Amenable/Free Cyanide)			—
Custody Signatures Present?		—	Headspace Wisconsin Sulfide?			—
Containers Intact?:	—		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	—		Trip Blank Present?		—	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			—

COMMENTS:



January 26, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356558

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 16, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50356558001	MW-26S	Water	10/16/23 14:35	10/16/23 17:25
50356558002	MW-26I	Water	10/16/23 13:50	10/16/23 17:25
50356558003	MW-26D	Water	10/16/23 14:25	10/16/23 17:25
50356558004	DUP 10	Water	10/16/23 08:00	10/16/23 17:25

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5035658001	MW-26S	EPA 9056	ADM, KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	FRW	2	PASI-I
		EPA 6020	MGM	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		5035658002	MW-26I	EPA 9056	ADM, KBB
EPA 6010	MTM			11	PASI-I
EPA 6010	FRW			2	PASI-I
EPA 6020	MGM			5	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	STS			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
5035658003	MW-26D			EPA 9056	ADM
		EPA 6010	MTM	11	PASI-I
		EPA 6010	FRW	2	PASI-I
		EPA 6020	MGM	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
50356558004	DUP 10	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	FRW	2	PASI-I
		EPA 6020	MGM	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356558001	MW-26S					
EPA 9056	Chloride	323	mg/L	25.0	10/29/23 22:58	
EPA 9056	Fluoride	0.32	mg/L	0.10	10/29/23 03:54	
EPA 9056	Sulfate	937	mg/L	25.0	10/29/23 22:58	
EPA 6010	Boron	4080	ug/L	100	10/19/23 11:16	
EPA 6010	Calcium	346000	ug/L	3000	10/19/23 11:28	
EPA 6010	Lithium	94.6	ug/L	20.0	10/19/23 11:16	
EPA 6010	Magnesium	83000	ug/L	1000	10/19/23 11:16	
EPA 6010	Manganese	2500	ug/L	10.0	10/19/23 11:16	
EPA 6010	Molybdenum	113	ug/L	10.0	10/19/23 11:16	
EPA 6010	Potassium	14700	ug/L	1000	10/19/23 11:16	
EPA 6010	Silica	16800	ug/L	450	10/19/23 11:16	N2
EPA 6010	Sodium	275000	ug/L	3000	10/19/23 11:28	
EPA 6010	Manganese, Dissolved	2690	ug/L	10.0	10/30/23 16:11	
EPA 6010	Molybdenum, Dissolved	112	ug/L	10.0	10/30/23 16:11	
EPA 6020	Barium	47.7	ug/L	1.0	10/20/23 20:31	
EPA 6020	Cobalt	3.4	ug/L	1.0	10/20/23 20:31	
EPA 903.1	Radium-226	0.282 ± 0.553 (0.993)	pCi/L		11/01/23 12:39	
EPA 904.0	Radium-228	C:NA T:86% 0.792 ± 0.426 (0.742)	pCi/L		10/30/23 12:50	
		C:74% T:74%				
Total Radium Calculation	Total Radium	1.07 ± 0.979 (1.74)	pCi/L		11/01/23 15:20	
SM 2320B	Alkalinity, Total as CaCO3	247	mg/L	10.0	10/17/23 20:50	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	247	mg/L	10.0	10/17/23 20:50	
SM 2540C	Total Dissolved Solids	2340	mg/L	40.0	10/19/23 17:40	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/26/23 16:34	H3
EPA 365.1	Phosphate as P04	0.19	mg/L	0.15	10/25/23 17:31	
50356558002	MW-26I					
EPA 9056	Chloride	102	mg/L	2.5	10/29/23 23:15	
EPA 9056	Fluoride	0.39	mg/L	0.10	10/29/23 00:32	
EPA 9056	Sulfate	83.6	mg/L	2.5	10/29/23 23:15	
EPA 6010	Boron	193	ug/L	100	10/19/23 11:18	
EPA 6010	Calcium	65500	ug/L	1000	10/19/23 11:18	
EPA 6010	Magnesium	20100	ug/L	1000	10/19/23 11:18	
EPA 6010	Manganese	20.8	ug/L	10.0	10/19/23 11:18	
EPA 6010	Molybdenum	49.6	ug/L	10.0	10/19/23 11:18	
EPA 6010	Potassium	5390	ug/L	1000	10/19/23 11:18	
EPA 6010	Silica	11700	ug/L	450	10/19/23 11:18	N2
EPA 6010	Sodium	105000	ug/L	1000	10/19/23 11:18	
EPA 6010	Manganese, Dissolved	21.7	ug/L	10.0	10/30/23 16:19	
EPA 6010	Molybdenum, Dissolved	50.1	ug/L	10.0	10/30/23 16:19	
EPA 6020	Barium	57.6	ug/L	1.0	10/20/23 20:35	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356558002	MW-26I					
EPA 903.1	Radium-226	0.221 ± 0.520 (0.964) C:NA T:87%	pCi/L		11/01/23 12:39	
EPA 904.0	Radium-228	0.597 ± 0.393 (0.732) C:87% T:80%	pCi/L		11/07/23 15:11	
Total Radium Calculation	Total Radium	0.818 ± 0.913 (1.70)	pCi/L		11/08/23 14:30	
SM 2320B	Alkalinity, Total as CaCO3	233	mg/L	10.0	10/17/23 20:50	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	233	mg/L	10.0	10/17/23 20:50	
SM 2540C	Total Dissolved Solids	538	mg/L	10.0	10/19/23 17:40	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	10/26/23 16:35	H3
EPA 353.2	Nitrogen, Nitrate	1.9	mg/L	0.10	10/17/23 23:57	
EPA 353.2	Nitrogen, Nitrite	0.27	mg/L	0.10	10/17/23 23:57	
SM 5310C	Total Organic Carbon	2.1	mg/L	1.0	10/21/23 05:23	
SM 5310C	Dissolved Organic Carbon	2.3	mg/L	1.0	10/24/23 19:10	
50356558003	MW-26D					
EPA 9056	Chloride	45.1	mg/L	2.5	10/29/23 05:45	
EPA 9056	Sulfate	46.1	mg/L	0.25	10/29/23 05:26	
EPA 6010	Aluminum	324	ug/L	200	10/19/23 11:19	
EPA 6010	Boron	102	ug/L	100	10/19/23 11:19	
EPA 6010	Calcium	116000	ug/L	1000	10/19/23 11:19	
EPA 6010	Iron	564	ug/L	100	10/19/23 11:19	
EPA 6010	Magnesium	31600	ug/L	1000	10/19/23 11:19	
EPA 6010	Manganese	64.5	ug/L	10.0	10/19/23 11:19	
EPA 6010	Molybdenum	26.9	ug/L	10.0	10/19/23 11:19	
EPA 6010	Potassium	3410	ug/L	1000	10/19/23 11:19	
EPA 6010	Silica	16100	ug/L	450	10/19/23 11:19	N2
EPA 6010	Sodium	32500	ug/L	1000	10/19/23 11:19	
EPA 6010	Manganese, Dissolved	62.0	ug/L	10.0	10/30/23 16:21	
EPA 6010	Molybdenum, Dissolved	25.7	ug/L	10.0	10/30/23 16:21	
EPA 6020	Barium	113	ug/L	1.0	10/20/23 20:39	
EPA 903.1	Radium-226	0.426 ± 0.522 (0.852) C:NA T:87%	pCi/L		11/01/23 12:39	
EPA 904.0	Radium-228	1.17 ± 0.586 (1.05) C:75% T:74%	pCi/L		10/30/23 12:51	
Total Radium Calculation	Total Radium	1.60 ± 1.11 (1.90)	pCi/L		11/01/23 15:20	
SM 2320B	Alkalinity, Total as CaCO3	378	mg/L	10.0	10/17/23 20:50	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	378	mg/L	10.0	10/17/23 20:50	
SM 2540C	Total Dissolved Solids	521	mg/L	10.0	10/19/23 17:41	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356558003	MW-26D					
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	10/26/23 16:36	H3
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	10/21/23 05:33	
SM 5310C	Dissolved Organic Carbon	2.1	mg/L	1.0	10/24/23 19:35	
50356558004	DUP 10					
EPA 9056	Chloride	45.1	mg/L	2.5	10/29/23 06:21	
EPA 9056	Sulfate	46.0	mg/L	0.25	10/29/23 06:03	
EPA 6010	Aluminum	380	ug/L	200	10/19/23 11:21	
EPA 6010	Boron	105	ug/L	100	10/19/23 11:21	
EPA 6010	Calcium	120000	ug/L	1000	10/19/23 11:21	
EPA 6010	Iron	686	ug/L	100	10/19/23 11:21	
EPA 6010	Magnesium	33000	ug/L	1000	10/19/23 11:21	
EPA 6010	Manganese	67.8	ug/L	10.0	10/19/23 11:21	
EPA 6010	Molybdenum	27.5	ug/L	10.0	10/19/23 11:21	
EPA 6010	Potassium	3590	ug/L	1000	10/19/23 11:21	
EPA 6010	Silica	17000	ug/L	450	10/19/23 11:21	N2
EPA 6010	Sodium	34100	ug/L	1000	10/19/23 11:21	
EPA 6010	Manganese, Dissolved	62.2	ug/L	10.0	10/30/23 16:22	
EPA 6010	Molybdenum, Dissolved	26.6	ug/L	10.0	10/30/23 16:22	
EPA 6020	Barium	116	ug/L	1.0	10/20/23 20:43	
EPA 903.1	Radium-226	-0.224 ± 0.605 (1.30) C:NA T:85%	pCi/L		11/01/23 12:53	
EPA 904.0	Radium-228	0.727 ± 0.495 (0.952) C:72% T:76%	pCi/L		10/30/23 12:51	
Total Radium Calculation	Total Radium	0.727 ± 1.10 (2.25)	pCi/L		11/01/23 15:20	
SM 2320B	Alkalinity, Total as CaCO3	375	mg/L	10.0	10/17/23 22:47	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	375	mg/L	10.0	10/17/23 22:47	
SM 2540C	Total Dissolved Solids	511	mg/L	10.0	10/19/23 17:41	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	10/26/23 16:37	H3
SM 5310C	Total Organic Carbon	2.1	mg/L	1.0	10/21/23 05:43	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/24/23 20:01	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Sample: MW-26S **Lab ID: 50356558001** Collected: 10/16/23 14:35 Received: 10/16/23 17:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	323	mg/L	25.0	6.7	100		10/29/23 22:58	16887-00-6	
Fluoride	0.32	mg/L	0.10	0.017	1		10/29/23 03:54	16984-48-8	
Sulfate	937	mg/L	25.0	19.0	100		10/29/23 22:58	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/18/23 08:32	10/19/23 11:16	7429-90-5	
Boron	4080	ug/L	100	11.4	1	10/18/23 08:32	10/19/23 11:16	7440-42-8	
Calcium	346000	ug/L	3000	170	3	10/18/23 08:32	10/19/23 11:28	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/18/23 08:32	10/19/23 11:16	7439-89-6	
Lithium	94.6	ug/L	20.0	5.1	1	10/18/23 08:32	10/19/23 11:16	7439-93-2	
Magnesium	83000	ug/L	1000	32.8	1	10/18/23 08:32	10/19/23 11:16	7439-95-4	
Manganese	2500	ug/L	10.0	1.1	1	10/18/23 08:32	10/19/23 11:16	7439-96-5	
Molybdenum	113	ug/L	10.0	1.1	1	10/18/23 08:32	10/19/23 11:16	7439-98-7	
Potassium	14700	ug/L	1000	120	1	10/18/23 08:32	10/19/23 11:16	7440-09-7	
Silica	16800	ug/L	450		1	10/18/23 08:32	10/19/23 11:16	7631-86-9	N2
Sodium	275000	ug/L	3000	145	3	10/18/23 08:32	10/19/23 11:28	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	2690	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:11	7439-96-5	
Molybdenum, Dissolved	112	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:11	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.13	1	10/18/23 07:40	10/20/23 20:31	7440-36-0	
Arsenic	ND	ug/L	1.0	0.10	1	10/18/23 07:40	10/20/23 20:31	7440-38-2	
Barium	47.7	ug/L	1.0	0.14	1	10/18/23 07:40	10/20/23 20:31	7440-39-3	
Cobalt	3.4	ug/L	1.0	0.082	1	10/18/23 07:40	10/20/23 20:31	7440-48-4	
Selenium	ND	ug/L	1.0	0.44	1	10/18/23 07:40	10/20/23 20:31	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	247	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Bicarbonate (CaCO3)	247	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 20:50		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2340	mg/L	40.0	40.0	1		10/19/23 17:40		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/26/23 16:34		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Sample: MW-26S		Lab ID: 50356558001		Collected: 10/16/23 14:35	Received: 10/16/23 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/20/23 10:26	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:53	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/18/23 00:01	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/18/23 00:01	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	0.19	mg/L	0.15	0.15	1	10/25/23 13:00	10/25/23 17:31			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	4.0	0.94	4		10/23/23 11:57	7440-44-0	D3	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	4.0	0.94	4		10/25/23 11:56		D3	

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356558

Sample: MW-26I **Lab ID: 50356558002** Collected: 10/16/23 13:50 Received: 10/16/23 17:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	102	mg/L	2.5	0.67	10		10/29/23 23:15	16887-00-6	
Fluoride	0.39	mg/L	0.10	0.017	1		10/29/23 00:32	16984-48-8	
Sulfate	83.6	mg/L	2.5	1.9	10		10/29/23 23:15	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/18/23 08:32	10/19/23 11:18	7429-90-5	
Boron	193	ug/L	100	11.4	1	10/18/23 08:32	10/19/23 11:18	7440-42-8	
Calcium	65500	ug/L	1000	56.7	1	10/18/23 08:32	10/19/23 11:18	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/18/23 08:32	10/19/23 11:18	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/18/23 08:32	10/19/23 11:18	7439-93-2	
Magnesium	20100	ug/L	1000	32.8	1	10/18/23 08:32	10/19/23 11:18	7439-95-4	
Manganese	20.8	ug/L	10.0	1.1	1	10/18/23 08:32	10/19/23 11:18	7439-96-5	
Molybdenum	49.6	ug/L	10.0	1.1	1	10/18/23 08:32	10/19/23 11:18	7439-98-7	
Potassium	5390	ug/L	1000	120	1	10/18/23 08:32	10/19/23 11:18	7440-09-7	
Silica	11700	ug/L	450		1	10/18/23 08:32	10/19/23 11:18	7631-86-9	N2
Sodium	105000	ug/L	1000	48.2	1	10/18/23 08:32	10/19/23 11:18	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	21.7	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:19	7439-96-5	
Molybdenum, Dissolved	50.1	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:19	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.13	1	10/18/23 07:40	10/20/23 20:35	7440-36-0	
Arsenic	ND	ug/L	1.0	0.10	1	10/18/23 07:40	10/20/23 20:35	7440-38-2	
Barium	57.6	ug/L	1.0	0.14	1	10/18/23 07:40	10/20/23 20:35	7440-39-3	
Cobalt	ND	ug/L	1.0	0.082	1	10/18/23 07:40	10/20/23 20:35	7440-48-4	
Selenium	ND	ug/L	1.0	0.44	1	10/18/23 07:40	10/20/23 20:35	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	233	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Bicarbonate (CaCO3)	233	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 20:50		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	538	mg/L	10.0	10.0	1		10/19/23 17:40		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		10/26/23 16:35		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-261									
Lab ID: 50356558002									
Collected: 10/16/23 13:50									
Received: 10/16/23 17:25									
Matrix: Water									
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/20/23 10:26	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:53	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	1.9	mg/L	0.10	0.011	1		10/17/23 23:57	14797-55-8	
Nitrogen, Nitrite	0.27	mg/L	0.10	0.0040	1		10/17/23 23:57	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 13:00	10/25/23 17:31		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	2.1	mg/L	1.0	0.24	1		10/21/23 05:23	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	2.3	mg/L	1.0	0.24	1		10/24/23 19:10		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Sample: MW-26D Lab ID: 50356558003 Collected: 10/16/23 14:25 Received: 10/16/23 17:25 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	45.1	mg/L	2.5	0.67	10		10/29/23 05:45	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/29/23 05:26	16984-48-8	
Sulfate	46.1	mg/L	0.25	0.19	1		10/29/23 05:26	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	324	ug/L	200	79.3	1	10/18/23 08:32	10/19/23 11:19	7429-90-5	
Boron	102	ug/L	100	11.4	1	10/18/23 08:32	10/19/23 11:19	7440-42-8	
Calcium	116000	ug/L	1000	56.7	1	10/18/23 08:32	10/19/23 11:19	7440-70-2	
Iron	564	ug/L	100	18.1	1	10/18/23 08:32	10/19/23 11:19	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/18/23 08:32	10/19/23 11:19	7439-93-2	
Magnesium	31600	ug/L	1000	32.8	1	10/18/23 08:32	10/19/23 11:19	7439-95-4	
Manganese	64.5	ug/L	10.0	1.1	1	10/18/23 08:32	10/19/23 11:19	7439-96-5	
Molybdenum	26.9	ug/L	10.0	1.1	1	10/18/23 08:32	10/19/23 11:19	7439-98-7	
Potassium	3410	ug/L	1000	120	1	10/18/23 08:32	10/19/23 11:19	7440-09-7	
Silica	16100	ug/L	450		1	10/18/23 08:32	10/19/23 11:19	7631-86-9	N2
Sodium	32500	ug/L	1000	48.2	1	10/18/23 08:32	10/19/23 11:19	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	62.0	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:21	7439-96-5	
Molybdenum, Dissolved	25.7	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:21	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.13	1	10/18/23 07:40	10/20/23 20:39	7440-36-0	
Arsenic	ND	ug/L	1.0	0.10	1	10/18/23 07:40	10/20/23 20:39	7440-38-2	
Barium	113	ug/L	1.0	0.14	1	10/18/23 07:40	10/20/23 20:39	7440-39-3	
Cobalt	ND	ug/L	1.0	0.082	1	10/18/23 07:40	10/20/23 20:39	7440-48-4	
Selenium	ND	ug/L	1.0	0.44	1	10/18/23 07:40	10/20/23 20:39	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	378	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Bicarbonate (CaCO3)	378	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 20:50		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	521	mg/L	10.0	10.0	1		10/19/23 17:41		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		10/26/23 16:36		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Sample: MW-26D		Lab ID: 50356558003		Collected: 10/16/23 14:25	Received: 10/16/23 17:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	0.10	0.025	1		10/20/23 10:26	18496-25-8	
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:53	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/17/23 23:59	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/17/23 23:59	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 13:00	10/25/23 17:32		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	1.8	mg/L	1.0	0.24	1		10/21/23 05:33	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.1	mg/L	1.0	0.24	1		10/24/23 19:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356558

Sample: DUP 10 **Lab ID: 50356558004** Collected: 10/16/23 08:00 Received: 10/16/23 17:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	45.1	mg/L	2.5	0.67	10		10/29/23 06:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/29/23 06:03	16984-48-8	
Sulfate	46.0	mg/L	0.25	0.19	1		10/29/23 06:03	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	380	ug/L	200	79.3	1	10/18/23 08:32	10/19/23 11:21	7429-90-5	
Boron	105	ug/L	100	11.4	1	10/18/23 08:32	10/19/23 11:21	7440-42-8	
Calcium	120000	ug/L	1000	56.7	1	10/18/23 08:32	10/19/23 11:21	7440-70-2	
Iron	686	ug/L	100	18.1	1	10/18/23 08:32	10/19/23 11:21	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/18/23 08:32	10/19/23 11:21	7439-93-2	
Magnesium	33000	ug/L	1000	32.8	1	10/18/23 08:32	10/19/23 11:21	7439-95-4	
Manganese	67.8	ug/L	10.0	1.1	1	10/18/23 08:32	10/19/23 11:21	7439-96-5	
Molybdenum	27.5	ug/L	10.0	1.1	1	10/18/23 08:32	10/19/23 11:21	7439-98-7	
Potassium	3590	ug/L	1000	120	1	10/18/23 08:32	10/19/23 11:21	7440-09-7	
Silica	17000	ug/L	450		1	10/18/23 08:32	10/19/23 11:21	7631-86-9	N2
Sodium	34100	ug/L	1000	48.2	1	10/18/23 08:32	10/19/23 11:21	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	62.2	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:22	7439-96-5	
Molybdenum, Dissolved	26.6	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:22	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.13	1	10/18/23 07:40	10/20/23 20:43	7440-36-0	
Arsenic	ND	ug/L	1.0	0.10	1	10/18/23 07:40	10/20/23 20:43	7440-38-2	
Barium	116	ug/L	1.0	0.14	1	10/18/23 07:40	10/20/23 20:43	7440-39-3	
Cobalt	ND	ug/L	1.0	0.082	1	10/18/23 07:40	10/20/23 20:43	7440-48-4	
Selenium	ND	ug/L	1.0	0.44	1	10/18/23 07:40	10/20/23 20:43	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	375	mg/L	10.0	10.0	1		10/17/23 22:47		
Alkalinity,Bicarbonate (CaCO3)	375	mg/L	10.0	10.0	1		10/17/23 22:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 22:47		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	511	mg/L	10.0	10.0	1		10/19/23 17:41		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		10/26/23 16:37		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Sample: DUP 10		Lab ID: 50356558004		Collected: 10/16/23 08:00	Received: 10/16/23 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/20/23 10:26	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:52	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/17/23 23:38	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/17/23 23:38	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/25/23 13:00	10/25/23 17:44			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	2.1	mg/L	1.0	0.24	1		10/21/23 05:43	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/24/23 20:01			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch:	758852	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

METHOD BLANK: 3477627 Matrix: Water
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/28/23 18:06	
Fluoride	mg/L	ND	0.10	0.017	10/28/23 18:06	
Sulfate	mg/L	ND	0.25	0.19	10/28/23 18:06	

LABORATORY CONTROL SAMPLE: 3477628

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3477629 3477630

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356477002 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	63.9	25	25	87.8	87.5	96	94	80-120	0	15		
Fluoride	mg/L	0.30	1	1	1.3	1.3	96	97	80-120	0	15		
Sulfate	mg/L	48.5	50	50	94.7	94.8	92	93	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356558

QC Batch: 757843 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

METHOD BLANK: 3473077 Matrix: Water

Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/19/23 10:52	
Boron	ug/L	ND	100	11.4	10/19/23 10:52	
Calcium	ug/L	ND	1000	56.7	10/19/23 10:52	
Iron	ug/L	ND	100	18.1	10/19/23 10:52	
Lithium	ug/L	ND	20.0	5.1	10/19/23 10:52	
Magnesium	ug/L	ND	1000	32.8	10/19/23 10:52	
Manganese	ug/L	ND	10.0	1.1	10/19/23 10:52	
Molybdenum	ug/L	ND	10.0	1.1	10/19/23 10:52	
Potassium	ug/L	ND	1000	120	10/19/23 10:52	
Silica	ug/L	ND	450		10/19/23 10:52	N2
Sodium	ug/L	ND	1000	48.2	10/19/23 10:52	

LABORATORY CONTROL SAMPLE: 3473078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9950	99	80-120	
Boron	ug/L	1000	966	97	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Iron	ug/L	10000	9490	95	80-120	
Lithium	ug/L	1000	1000	100	80-120	
Magnesium	ug/L	10000	9810	98	80-120	
Manganese	ug/L	1000	972	97	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	
Potassium	ug/L	10000	9940	99	80-120	
Silica	ug/L	10700	10500	98	80-120	N2
Sodium	ug/L	10000	9880	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473079 3473080

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Spike Conc.	Result	Spike Conc.	Result							
Aluminum	ug/L	ND	10000	10000	9870	10000	98	100	75-125	2	20	
Boron	ug/L	0.66 mg/L	1000	1000	1650	1700	99	104	75-125	3	20	
Calcium	ug/L	99.7 mg/L	10000	10000	106000	110000	59	105	75-125	4	20	P6
Iron	ug/L	ND	10000	10000	9460	9670	95	97	75-125	2	20	
Lithium	ug/L	ND	1000	1000	1000	1040	100	103	75-125	4	20	
Magnesium	ug/L	32.5 mg/L	10000	10000	41000	42500	86	100	75-125	3	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473079 3473080											
Parameter	Units	50356571001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Manganese	ug/L	ND	1000	1000	972	992	97	99	75-125	2	20
Molybdenum	ug/L	ND	1000	1000	1050	1090	105	108	75-125	3	20
Potassium	ug/L	1.5 mg/L	10000	10000	11300	11700	99	102	75-125	3	20
Silica	ug/L	14.5 mg/L	10700	10700	24700	25600	96	103	75-125	3	20 N2
Sodium	ug/L	17.7 mg/L	10000	10000	26500	27700	88	100	75-125	4	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch: 758164 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

METHOD BLANK: 3474473 Matrix: Water
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/30/23 15:44	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/30/23 15:44	

LABORATORY CONTROL SAMPLE: 3474474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	2000	2040	102	80-120	
Molybdenum, Dissolved	ug/L	2000	2030	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3474475 3474476

Parameter	Units	50356558001		3474476		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Manganese, Dissolved	ug/L	2690	1000	1000	3610	3760	93	108	75-125	4	20
Molybdenum, Dissolved	ug/L	112	1000	1000	1140	1170	103	106	75-125	3	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch:	757807	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

METHOD BLANK: 3472871 Matrix: Water

Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.13	10/20/23 16:10	
Arsenic	ug/L	ND	1.0	0.10	10/20/23 16:10	
Barium	ug/L	ND	1.0	0.14	10/20/23 16:10	
Cobalt	ug/L	ND	1.0	0.082	10/20/23 16:10	
Selenium	ug/L	ND	1.0	0.44	10/20/23 16:10	

LABORATORY CONTROL SAMPLE: 3472872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.2	105	80-120	
Arsenic	ug/L	40	39.8	100	80-120	
Barium	ug/L	40	38.4	96	80-120	
Cobalt	ug/L	40	40.9	102	80-120	
Selenium	ug/L	40	39.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472873 3472874

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Antimony	ug/L	40	ND	40	43.0	107	107	75-125	0	20	
Arsenic	ug/L	40	2.3	40	43.6	103	103	75-125	0	20	
Barium	ug/L	40	62.7	40	107	110	110	75-125	0	20	
Cobalt	ug/L	40	ND	40	38.0	95	94	75-125	1	20	
Selenium	ug/L	40	ND	40	39.8	99	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch:	757858	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356558001, 50356558002, 50356558003		

METHOD BLANK: 3473134 Matrix: Water

Associated Lab Samples: 50356558001, 50356558002, 50356558003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/17/23 20:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 20:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 20:50	

LABORATORY CONTROL SAMPLE: 3473135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.5	95	90-110	

SAMPLE DUPLICATE: 3473136

Parameter	Units	50356557001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	252	258	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	243	248	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3473137

Parameter	Units	50356557002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	258	263	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	244	249	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	13.6	14.0	3	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch:	757859	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356558004

METHOD BLANK: 3473141 Matrix: Water

Associated Lab Samples: 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/17/23 22:47	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 22:47	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 22:47	

LABORATORY CONTROL SAMPLE: 3473142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.5	95	90-110	

SAMPLE DUPLICATE: 3473143

Parameter	Units	50356504001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	297	301	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	297	301	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3473144

Parameter	Units	50356505001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	292	296	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	292	296	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch:	758198	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356558001, 50356558002, 50356558003, 50356558004		

METHOD BLANK: 3474649 Matrix: Water
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/19/23 17:39	

LABORATORY CONTROL SAMPLE: 3474650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	80-120	

SAMPLE DUPLICATE: 3474651

Parameter	Units	50356567016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1640	1650	1	10	

SAMPLE DUPLICATE: 3474652

Parameter	Units	50356570003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	931	962	3	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch: 759376

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

SAMPLE DUPLICATE: 3480078

Parameter	Units	50356425005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	2	H3

SAMPLE DUPLICATE: 3480079

Parameter	Units	50356733014 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch:	758338	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004			

METHOD BLANK: 3475459 Matrix: Water
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/20/23 10:26	

LABORATORY CONTROL SAMPLE: 3475460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475461 3475462

Parameter	Units	50356175004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.55	106	108	90-110	2	20	H3

MATRIX SPIKE SAMPLE: 3475463

Parameter	Units	50356558002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.51	101	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch: 757931 Analysis Method: HACH 8146
 QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

METHOD BLANK: 3473380 Matrix: Water
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 15:39	H3,N2

LABORATORY CONTROL SAMPLE: 3473381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473382 3473383

Parameter	Units	50356477002		3473382		3473383		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Iron, Ferrous	mg/L	0.62	1	1	1	1.6	1.6	100	103	90-110	2 20 H3,N2

MATRIX SPIKE SAMPLE: 3473384

Parameter	Units	50356558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	102	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch:	757869	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356558001, 50356558002, 50356558003, 50356558004		

METHOD BLANK: 3473217 Matrix: Water
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/17/23 23:35	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/17/23 23:35	

LABORATORY CONTROL SAMPLE: 3473218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	100	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 3473219

Parameter	Units	50356561003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	1	3.1	94	90-110	
Nitrogen, Nitrite	mg/L	ND	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 3473220

Parameter	Units	50356558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.1	103	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	99	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356558

QC Batch: 758975 Analysis Method: EPA 365.1
 QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356558001, 50356558002, 50356558003

METHOD BLANK: 3478306 Matrix: Water
 Associated Lab Samples: 50356558001, 50356558002, 50356558003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/25/23 17:22	

LABORATORY CONTROL SAMPLE: 3478307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3478308 3478309

Parameter	Units	50356461004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	144			195	160				20		

MATRIX SPIKE SAMPLE: 3478310

Parameter	Units	50357029002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.1	2.5			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch:	758977	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356558004

METHOD BLANK:	3478315	Matrix:	Water
Associated Lab Samples:	50356558004		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/25/23 17:39	

LABORATORY CONTROL SAMPLE: 3478316						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3478317												3478318	
Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Phosphate as P04	mg/L	ND			1.6	1.5				1			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356558

QC Batch: 758402 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

METHOD BLANK: 3475741 Matrix: Water
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/21/23 01:36	

LABORATORY CONTROL SAMPLE: 3475742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475743 3475744

Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.7	10	10	11.0	11.2	94	95	80-120	1	20	

MATRIX SPIKE SAMPLE: 3475745

Parameter	Units	50356477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.3	10	10.8	95	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch:	758413	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50356558001, 50356558002, 50356558003, 50356558004		

METHOD BLANK: 3475782 Matrix: Water
 Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/24/23 12:48	

LABORATORY CONTROL SAMPLE: 3475783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475784 3475785

Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.4	10	10	10.9	10.9	95	96	80-120	1	20	

MATRIX SPIKE SAMPLE: 3475786

Parameter	Units	50356477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.0	10	10.7	97	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Sample: MW-26S **Lab ID: 50356558001** Collected: 10/16/23 14:35 Received: 10/16/23 17:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.282 ± 0.553 (0.993) C:NA T:86%	pCi/L	11/01/23 12:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.792 ± 0.426 (0.742) C:74% T:74%	pCi/L	10/30/23 12:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.07 ± 0.979 (1.74)	pCi/L	11/01/23 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Sample: MW-26I **Lab ID: 50356558002** Collected: 10/16/23 13:50 Received: 10/16/23 17:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.221 ± 0.520 (0.964) C:NA T:87%	pCi/L	11/01/23 12:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.597 ± 0.393 (0.732) C:87% T:80%	pCi/L	11/07/23 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.818 ± 0.913 (1.70)	pCi/L	11/08/23 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.426 ± 0.522 (0.852) C:NA T:87%	pCi/L	11/01/23 12:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.17 ± 0.586 (1.05) C:75% T:74%	pCi/L	10/30/23 12:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.60 ± 1.11 (1.90)	pCi/L	11/01/23 15:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Sample: DUP 10 **Lab ID: 50356558004** Collected: 10/16/23 08:00 Received: 10/16/23 17:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.224 ± 0.605 (1.30) C:NA T:85%	pCi/L	11/01/23 12:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.727 ± 0.495 (0.952) C:72% T:76%	pCi/L	10/30/23 12:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.727 ± 1.10 (2.25)	pCi/L	11/01/23 15:20	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch: 624320

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: 50356558001, 50356558003, 50356558004

METHOD BLANK: 3043535

Matrix: Water

Associated Lab Samples: 50356558001, 50356558003, 50356558004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.114 ± 0.343 (0.775) C:76% T:70%	pCi/L	10/30/23 12:54	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch: 626459

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: 50356558002

METHOD BLANK: 3053526

Matrix: Water

Associated Lab Samples: 50356558002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.170 ± 0.286 (0.623) C:92% T:79%	pCi/L	11/07/23 11:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

QC Batch: 624319

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: 50356558001, 50356558002, 50356558003, 50356558004

METHOD BLANK: 3043534

Matrix: Water

Associated Lab Samples: 50356558001, 50356558002, 50356558003, 50356558004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.281 (0.453) C:NA T:84%	pCi/L	11/01/23 12:39	

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QUALIFIERS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

H3 Sample was received or analysis requested beyond the recognized method holding time.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356558001	MW-26S	EPA 9056	758852		
50356558002	MW-26I	EPA 9056	758852		
50356558003	MW-26D	EPA 9056	758852		
50356558004	DUP 10	EPA 9056	758852		
50356558001	MW-26S	EPA 3010	757843	EPA 6010	758177
50356558002	MW-26I	EPA 3010	757843	EPA 6010	758177
50356558003	MW-26D	EPA 3010	757843	EPA 6010	758177
50356558004	DUP 10	EPA 3010	757843	EPA 6010	758177
50356558001	MW-26S	EPA 3010	758164	EPA 6010	759812
50356558002	MW-26I	EPA 3010	758164	EPA 6010	759812
50356558003	MW-26D	EPA 3010	758164	EPA 6010	759812
50356558004	DUP 10	EPA 3010	758164	EPA 6010	759812
50356558001	MW-26S	EPA 200.2	757807	EPA 6020	758030
50356558002	MW-26I	EPA 200.2	757807	EPA 6020	758030
50356558003	MW-26D	EPA 200.2	757807	EPA 6020	758030
50356558004	DUP 10	EPA 200.2	757807	EPA 6020	758030
50356558001	MW-26S	EPA 903.1	624319		
50356558002	MW-26I	EPA 903.1	624319		
50356558003	MW-26D	EPA 903.1	624319		
50356558004	DUP 10	EPA 903.1	624319		
50356558001	MW-26S	EPA 904.0	624320		
50356558002	MW-26I	EPA 904.0	626459		
50356558003	MW-26D	EPA 904.0	624320		
50356558004	DUP 10	EPA 904.0	624320		
50356558001	MW-26S	Total Radium Calculation	626485		
50356558002	MW-26I	Total Radium Calculation	628263		
50356558003	MW-26D	Total Radium Calculation	626485		
50356558004	DUP 10	Total Radium Calculation	626485		
50356558001	MW-26S	SM 2320B	757858		
50356558002	MW-26I	SM 2320B	757858		
50356558003	MW-26D	SM 2320B	757858		
50356558004	DUP 10	SM 2320B	757859		
50356558001	MW-26S	SM 2540C	758198		
50356558002	MW-26I	SM 2540C	758198		
50356558003	MW-26D	SM 2540C	758198		
50356558004	DUP 10	SM 2540C	758198		
50356558001	MW-26S	SM 4500-H+B	759376		
50356558002	MW-26I	SM 4500-H+B	759376		
50356558003	MW-26D	SM 4500-H+B	759376		
50356558004	DUP 10	SM 4500-H+B	759376		
50356558001	MW-26S	SM 4500-S2-D	758338		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356558

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356558002	MW-26I	SM 4500-S2-D	758338		
50356558003	MW-26D	SM 4500-S2-D	758338		
50356558004	DUP 10	SM 4500-S2-D	758338		
50356558001	MW-26S	HACH 8146	757931		
50356558002	MW-26I	HACH 8146	757931		
50356558003	MW-26D	HACH 8146	757931		
50356558004	DUP 10	HACH 8146	757931		
50356558001	MW-26S	EPA 353.2	757869		
50356558002	MW-26I	EPA 353.2	757869		
50356558003	MW-26D	EPA 353.2	757869		
50356558004	DUP 10	EPA 353.2	757869		
50356558001	MW-26S	EPA 365.1	758975	EPA 365.1	759189
50356558002	MW-26I	EPA 365.1	758975	EPA 365.1	759189
50356558003	MW-26D	EPA 365.1	758975	EPA 365.1	759189
50356558004	DUP 10	EPA 365.1	758977	EPA 365.1	759190
50356558001	MW-26S	SM 5310C	758402		
50356558002	MW-26I	SM 5310C	758402		
50356558003	MW-26D	SM 5310C	758402		
50356558004	DUP 10	SM 5310C	758402		
50356558001	MW-26S	SM 5310C	758413		
50356558002	MW-26I	SM 5310C	758413		
50356558003	MW-26D	SM 5310C	758413		
50356558004	DUP 10	SM 5310C	758413		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be filled out.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com>

WO# : 50356558



50356558

Section A

Required Client Information:

Company: Atlas Indianapolis
 Address: 7988 Centerpoint Drive
 Suite 100, Indianapolis, IN 46256
 Email: mark.breting@oneatlas.com
 Phone: 317-313-8306 Fax
 Requested Due Date:

Section B

Required Project Information:

Report To: Mark Breting
 Copy To:
 Purchase Order #: PIR1
 Project Name: Eagle Valley October 2023
 Project #:

Section C

Invoice Information:

Attention: Accounts Payable - Paula Sedam
 Company Name: Atlas Indianapolis
 Address:
 Pace Quote:
 Pace Project Manager: will.statz@pacelabs.com
 Pace Profile #: 10498/46

Regulatory Agency
 State / Location
 IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)							
						DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N									
1	MW-26 S					10/16/23	14:35				11	3	3	4	1															001
2	MW-26 I						13:50																							002
3	MW-26 U						14:25																							003
4	Dup-6																													004

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	Keaton Jucker / Atlas	10.16.23	17:25	Pauline	10-16-23	17:25	0.3	y	n	y
6020 - Co, As, Se, Sb, Ba (5)							0.5			
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, sila (11)										
6010 Dis - Mn, Mo (2)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaton Jucker, Mark Breting, Jana Masec

SIGNATURE of SAMPLER: Keaton Jucker DATE Signed: 10.16.23

TEMP in C
 Received on Ice (Y/N)
 Custody Sealed (Y/N)
 Cooler (Y/N)
 Samples in Contact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 10-16-23 17:42

- 1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No
(If yes)Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**
- 4. Cooler Temperature(s): 0.3/0.3 0.5/0.5
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
- 6. Ice Type: Wet Blue None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO₃</u>	✓		Circle: <u>HNO₃ (<2)</u> <u>H₂SO₄ (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	✓		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u> style="text-align: center;">✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	MeOH (only)	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS						PLASTIC							OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc								
				SBS							Red	Yellow	Green	Black																									
				DI							HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9																									
				R																																			
1																																							
2																																							
3																																							
4																																							
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							

Container Codes

Glass		
DG9H	40mL HCl amber voa vial	BG1T glass
DG9P	40mL TSP amber vial	BG1U 1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U 250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U 100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H 1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S 1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T 1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U 1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N 500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S 500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U 500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S 250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF 250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U 250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B 250mL NaOH amber glass
BG1S	1L H2SO4 clear glass	

Plastic		
BP1B	1L NaOH plastic	BP4U 125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N 125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S 125mL H2SO4 plastic
BP1U	1L unpreserved plastic	Miscellaneous
BP1Z	1L NaOH, Zn, Ac	
BP2N	500mL HNO3 plastic	Syringe Kit LL Cr+6 sampling kit
BP2C	500mL NaOH plastic	ZPLC Ziploc Bag
BP2S	500mL H2SO4 plastic	R Terracore Kit
BP2U	500mL unpreserved plastic	SP5T 120mL Coliform Sodium Thiosulfate
BP2Z	500mL NaOH, Zn Ac	GN General Container
BP3B	250mL NaOH plastic	U Summa Can (air sample)
BP3N	250mL HNO3 plastic	WT Water
BP3F	250mL HNO3 plastic-field filtered	SL Solid
BP3U	250mL unpreserved plastic	OL Oil
BP3S	250mL H2SO4 plastic	NAL Non-aqueous liquid
BP3Z	250mL NaOH, ZnAc plastic	WP Wipe
BP3R	250mL Unpres. FF SO4/OH buffer	



January 26, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356608

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356608

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356608

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50356608001	MW-12D	Water	10/17/23 10:40	10/17/23 13:50
50356608002	Field Blank	Water	10/17/23 11:35	10/17/23 13:50

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356608001	MW-12D	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	FRW	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50356608002	Field Blank	EPA 9056	ADM
EPA 6010	MTM			11	PASI-I
EPA 6020	CAW			5	PASI-I
EPA 903.1	MAR1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	LAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	AEL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	STS			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356608

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356608001	MW-12D					
EPA 9056	Chloride	79.4	mg/L	2.5	10/29/23 14:56	
EPA 9056	Fluoride	0.27	mg/L	0.10	10/29/23 14:37	
EPA 9056	Sulfate	74.2	mg/L	2.5	10/29/23 14:56	
EPA 6010	Boron	1400	ug/L	100	10/19/23 15:16	
EPA 6010	Calcium	78300	ug/L	1000	10/19/23 15:16	
EPA 6010	Iron	452	ug/L	100	10/19/23 15:16	
EPA 6010	Lithium	75.0	ug/L	20.0	10/19/23 15:16	
EPA 6010	Magnesium	14500	ug/L	1000	10/19/23 15:16	
EPA 6010	Manganese	282	ug/L	10.0	10/19/23 15:16	
EPA 6010	Molybdenum	199	ug/L	10.0	10/19/23 15:16	
EPA 6010	Potassium	5570	ug/L	1000	10/19/23 15:16	
EPA 6010	Silica	11800	ug/L	450	10/19/23 15:16	N2
EPA 6010	Sodium	73200	ug/L	1000	10/19/23 15:16	
EPA 6010	Manganese, Dissolved	294	ug/L	10.0	10/30/23 16:24	
EPA 6010	Molybdenum, Dissolved	196	ug/L	10.0	10/30/23 16:24	
EPA 6020	Arsenic	2.9	ug/L	1.0	10/21/23 00:12	
EPA 6020	Barium	54.1	ug/L	1.0	10/21/23 00:12	
EPA 903.1	Radium-226	-0.480 ± 0.618 (1.38) C:NA	pCi/L		11/02/23 15:03	
EPA 904.0	Radium-228	T:92% 1.08 ± 0.466 (0.720) C:75% T:75%	pCi/L		10/30/23 14:51	
Total Radium Calculation	Total Radium	1.08 ± 1.08 (2.10)	pCi/L		11/07/23 15:57	
SM 2320B	Alkalinity, Total as CaCO3	219	mg/L	10.0	10/17/23 22:47	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	210	mg/L	10.0	10/17/23 22:47	
SM 2540C	Total Dissolved Solids	469	mg/L	10.0	10/21/23 11:15	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/26/23 16:39	H3
HACH 8146	Iron, Ferrous	0.26	mg/L	0.20	10/18/23 15:55	H3, N2
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	10/21/23 06:35	
SM 5310C	Dissolved Organic Carbon	1.8	mg/L	1.0	10/24/23 20:27	
50356608002	Field Blank					
EPA 903.1	Radium-226	0.158 ± 0.437 (0.848) C:NA T:87%	pCi/L		11/02/23 15:03	
EPA 904.0	Radium-228	0.533 ± 0.430 (0.845) C:77% T:73%	pCi/L		10/30/23 14:51	
Total Radium Calculation	Total Radium	0.691 ± 0.867 (1.69)	pCi/L		11/07/23 15:57	
SM 4500-H+B	pH at 25 Degrees C	8.1	Std. Units	0.10	10/26/23 16:41	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356608

Sample: MW-12D **Lab ID: 50356608001** Collected: 10/17/23 10:40 Received: 10/17/23 13:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	79.4	mg/L	2.5	0.67	10		10/29/23 14:56	16887-00-6	
Fluoride	0.27	mg/L	0.10	0.017	1		10/29/23 14:37	16984-48-8	
Sulfate	74.2	mg/L	2.5	1.9	10		10/29/23 14:56	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/18/23 20:40	10/19/23 15:16	7429-90-5	
Boron	1400	ug/L	100	11.4	1	10/18/23 20:40	10/19/23 15:16	7440-42-8	
Calcium	78300	ug/L	1000	56.7	1	10/18/23 20:40	10/19/23 15:16	7440-70-2	
Iron	452	ug/L	100	18.1	1	10/18/23 20:40	10/19/23 15:16	7439-89-6	
Lithium	75.0	ug/L	20.0	5.1	1	10/18/23 20:40	10/19/23 15:16	7439-93-2	
Magnesium	14500	ug/L	1000	32.8	1	10/18/23 20:40	10/19/23 15:16	7439-95-4	
Manganese	282	ug/L	10.0	1.1	1	10/18/23 20:40	10/19/23 15:16	7439-96-5	
Molybdenum	199	ug/L	10.0	1.1	1	10/18/23 20:40	10/19/23 15:16	7439-98-7	
Potassium	5570	ug/L	1000	120	1	10/18/23 20:40	10/19/23 15:16	7440-09-7	
Silica	11800	ug/L	450		1	10/18/23 20:40	10/19/23 15:16	7631-86-9	N2
Sodium	73200	ug/L	1000	48.2	1	10/18/23 20:40	10/19/23 15:16	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	294	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:24	7439-96-5	
Molybdenum, Dissolved	196	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:24	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/19/23 15:10	10/21/23 00:12	7440-36-0	
Arsenic	2.9	ug/L	1.0	0.075	1	10/19/23 15:10	10/21/23 00:12	7440-38-2	
Barium	54.1	ug/L	1.0	0.077	1	10/19/23 15:10	10/21/23 00:12	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/19/23 15:10	10/21/23 00:12	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/19/23 15:10	10/21/23 00:12	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	219	mg/L	10.0	10.0	1		10/17/23 22:47		
Alkalinity,Bicarbonate (CaCO3)	210	mg/L	10.0	10.0	1		10/17/23 22:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 22:47		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	469	mg/L	10.0	10.0	1		10/21/23 11:15		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/26/23 16:39		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

Sample: MW-12D		Lab ID: 50356608001		Collected: 10/17/23 10:40	Received: 10/17/23 13:50	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/20/23 12:38	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	0.26	mg/L	0.20	0.035	1		10/18/23 15:55	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/18/23 00:10	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/18/23 00:10	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/26/23 12:30	10/27/23 09:39			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.4	mg/L	1.0	0.24	1		10/21/23 06:35	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.8	mg/L	1.0	0.24	1		10/24/23 20:27			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

Sample: Field Blank	Lab ID: 50356608002	Collected: 10/17/23 11:35	Received: 10/17/23 13:50	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	ND	mg/L	0.25	0.067	1		10/29/23 16:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		10/29/23 16:09	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		10/29/23 16:09	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/18/23 20:40	10/19/23 15:17	7429-90-5	
Boron	ND	ug/L	100	11.4	1	10/18/23 20:40	10/19/23 15:17	7440-42-8	
Calcium	ND	ug/L	1000	56.7	1	10/18/23 20:40	10/19/23 15:17	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/18/23 20:40	10/19/23 15:17	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/18/23 20:40	10/19/23 15:17	7439-93-2	
Magnesium	ND	ug/L	1000	32.8	1	10/18/23 20:40	10/19/23 15:17	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	10/18/23 20:40	10/19/23 15:17	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	10/18/23 20:40	10/19/23 15:17	7439-98-7	
Potassium	ND	ug/L	1000	120	1	10/18/23 20:40	10/19/23 15:17	7440-09-7	
Silica	ND	ug/L	450		1	10/18/23 20:40	10/19/23 15:17	7631-86-9	N2
Sodium	ND	ug/L	1000	48.2	1	10/18/23 20:40	10/19/23 15:17	7440-23-5	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/19/23 15:10	10/21/23 00:16	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/19/23 15:10	10/21/23 00:16	7440-38-2	
Barium	ND	ug/L	1.0	0.077	1	10/19/23 15:10	10/21/23 00:16	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/19/23 15:10	10/21/23 00:16	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/19/23 15:10	10/21/23 00:16	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	ND	mg/L	10.0	10.0	1		10/17/23 22:47		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 22:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 22:47		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/21/23 11:16		PL
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	8.1	Std. Units	0.10	0.10	1		10/26/23 16:41		H3
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/20/23 12:38	18496-25-8	

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

Sample: Field Blank		Lab ID: 50356608002		Collected: 10/17/23 11:35	Received: 10/17/23 13:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis							
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:56	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/18/23 00:17	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/18/23 00:17	14797-65-0	
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis							
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/26/23 12:30	10/27/23 09:39		
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Total Organic Carbon	ND	mg/L	1.0	0.24	1		10/20/23 20:41	7440-44-0	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch:	758861	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

METHOD BLANK: 3477671 Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/29/23 17:23	
Fluoride	mg/L	ND	0.10	0.017	10/29/23 17:23	
Sulfate	mg/L	ND	0.25	0.19	10/29/23 17:23	

LABORATORY CONTROL SAMPLE: 3477672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3477673 3477674

Parameter	Units	5035667002		3477673		3477674		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	ND	ND	2.5	2.5	2.2	2.2	89	89	80-120	0	15	
Fluoride	mg/L	ND	ND	1	1	0.93	0.93	93	93	80-120	0	15	
Sulfate	mg/L	ND	ND	5	5	4.5	4.5	90	90	80-120	0	15	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
Pace Project No.: 50356608

QC Batch: 758075 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

METHOD BLANK: 3473973 Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/19/23 14:39	
Boron	ug/L	ND	100	11.4	10/19/23 14:39	
Calcium	ug/L	ND	1000	56.7	10/19/23 14:39	
Iron	ug/L	ND	100	18.1	10/19/23 14:39	
Lithium	ug/L	ND	20.0	5.1	10/19/23 14:39	
Magnesium	ug/L	ND	1000	32.8	10/19/23 14:39	
Manganese	ug/L	ND	10.0	1.1	10/19/23 14:39	
Molybdenum	ug/L	ND	10.0	1.1	10/19/23 14:39	
Potassium	ug/L	ND	1000	120	10/19/23 14:39	
Silica	ug/L	ND	450		10/19/23 14:39	N2
Sodium	ug/L	ND	1000	48.2	10/19/23 14:39	

LABORATORY CONTROL SAMPLE: 3473974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9540	95	80-120	
Boron	ug/L	1000	935	94	80-120	
Calcium	ug/L	10000	9610	96	80-120	
Iron	ug/L	10000	9100	91	80-120	
Lithium	ug/L	1000	963	96	80-120	
Magnesium	ug/L	10000	9350	94	80-120	
Manganese	ug/L	1000	940	94	80-120	
Molybdenum	ug/L	1000	994	99	80-120	
Potassium	ug/L	10000	9600	96	80-120	
Silica	ug/L	10700	10100	95	80-120	N2
Sodium	ug/L	10000	9420	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473975 3473976

Parameter	Units	50356749009		3473976		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	25600	10000	10000	42500	42100	168	165	75-125	1	20	M3
Boron	ug/L	ND	1000	1000	923	891	88	85	75-125	4	20	
Calcium	ug/L	152000	10000	10000	150000	149000	-26	-32	75-125	0	20	P6
Iron	ug/L	35400	10000	10000	42400	41900	70	65	75-125	1	20	M3
Lithium	ug/L	42.7	1000	1000	961	942	92	90	75-125	2	20	
Magnesium	ug/L	56100	10000	10000	60800	60400	47	43	75-125	1	20	P6

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473975 3473976														
Parameter	Units	50356749009		3473975		3473976		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Manganese	ug/L	432	1000	1000	1280	1240	84	80	75-125	3	20			
Molybdenum	ug/L	ND	1000	1000	944	907	94	90	75-125	4	20			
Potassium	ug/L	3730	10000	10000	13700	13600	100	99	75-125	1	20			
Silica	ug/L	99800	10700	10700	145000	148000	422	450	75-125	2	20	N2		
Sodium	ug/L	30100	10000	10000	36600	36700	65	66	75-125	0	20	M3		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch: 758164	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001

METHOD BLANK: 3474473 Matrix: Water

Associated Lab Samples: 50356608001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/30/23 15:44	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/30/23 15:44	

LABORATORY CONTROL SAMPLE: 3474474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	2000	2040	102	80-120	
Molybdenum, Dissolved	ug/L	2000	2030	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3474475 3474476

Parameter	Units	50356558001		3474476		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Manganese, Dissolved	ug/L	2690	1000	1000	3610	3760	93	108	75-125	4	20
Molybdenum, Dissolved	ug/L	112	1000	1000	1140	1170	103	106	75-125	3	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch:	758130	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

METHOD BLANK: 3474375 Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	10/24/23 04:01	
Arsenic	ug/L	ND	1.0	0.075	10/20/23 22:27	
Barium	ug/L	ND	1.0	0.077	10/20/23 22:27	
Cobalt	ug/L	ND	1.0	0.046	10/20/23 22:27	
Selenium	ug/L	ND	1.0	0.20	10/20/23 22:27	

LABORATORY CONTROL SAMPLE: 3474376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.5	104	80-120	
Arsenic	ug/L	40	37.7	94	80-120	
Barium	ug/L	40	38.3	96	80-120	
Cobalt	ug/L	40	41.9	105	80-120	
Selenium	ug/L	40	38.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3474377 3474378

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356609002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.0	41.2	102	103	75-125	1	20
Arsenic	ug/L	1.6	40	40	38.4	38.5	92	92	75-125	0	20
Barium	ug/L	75.7	40	40	117	117	104	104	75-125	0	20
Cobalt	ug/L	ND	40	40	39.1	38.5	97	96	75-125	2	20
Selenium	ug/L	ND	40	40	38.3	37.7	96	94	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch: 757859

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

METHOD BLANK: 3473141

Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/17/23 22:47	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 22:47	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 22:47	

LABORATORY CONTROL SAMPLE: 3473142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.5	95	90-110	

SAMPLE DUPLICATE: 3473143

Parameter	Units	50356504001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	297	301	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	297	301	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3473144

Parameter	Units	50356505001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	292	296	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	292	296	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch:	758479	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

METHOD BLANK: 3476269 Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/21/23 11:15	

LABORATORY CONTROL SAMPLE: 3476270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	286	95	80-120	

SAMPLE DUPLICATE: 3476271

Parameter	Units	50356608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	469	484	3	10	

SAMPLE DUPLICATE: 3476272

Parameter	Units	50356609001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	527	530	1	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch: 759376

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

SAMPLE DUPLICATE: 3480078

Parameter	Units	50356425005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	2	H3

SAMPLE DUPLICATE: 3480079

Parameter	Units	50356733014 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	2	H3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch:	758342	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

METHOD BLANK: 3475470 Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/20/23 12:38	

LABORATORY CONTROL SAMPLE: 3475471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.54	108	90-110	

MATRIX SPIKE SAMPLE: 3475472

Parameter	Units	50356609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.47	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475473 3475474

Parameter	Units	50356907007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.43	0.44	87	88	90-110	1	20	M3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch:	757931	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

METHOD BLANK: 3473380 Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 15:39	H3,N2

LABORATORY CONTROL SAMPLE: 3473381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473382 3473383

Parameter	Units	50356477002		3473382		3473383		% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Iron, Ferrous	mg/L	0.62	1	1	1.6	1.6	100	103	90-110	2	20	H3,N2

MATRIX SPIKE SAMPLE: 3473384

Parameter	Units	50356558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	102	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch:	757869	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

METHOD BLANK: 3473217 Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/17/23 23:35	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/17/23 23:35	

LABORATORY CONTROL SAMPLE: 3473218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	100	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 3473219

Parameter	Units	50356561003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	1	3.1	94	90-110	
Nitrogen, Nitrite	mg/L	ND	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 3473220

Parameter	Units	50356558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.1	103	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	99	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch:	759243	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001, 50356608002

METHOD BLANK: 3479422 Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/27/23 09:29	

LABORATORY CONTROL SAMPLE: 3479423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3479424 3479425

Parameter	Units	50356461002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	45.3			104	104				0		

MATRIX SPIKE SAMPLE: 3479426

Parameter	Units	50356609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		ND	1.5			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch: 758402	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Total Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001

METHOD BLANK: 3475741 Matrix: Water

Associated Lab Samples: 50356608001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/21/23 01:36	

LABORATORY CONTROL SAMPLE: 3475742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475743 3475744

Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.7	10	10	11.0	11.2	94	95	80-120	1	20	

MATRIX SPIKE SAMPLE: 3475745

Parameter	Units	50356477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.3	10	10.8	95	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch:	758409	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608002

METHOD BLANK: 3475754 Matrix: Water

Associated Lab Samples: 50356608002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/20/23 20:02	

LABORATORY CONTROL SAMPLE: 3475755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475756 3475757

Parameter	Units	10672369003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.4	10	10	11.2	11.2	97	98	80-120	0	20	

MATRIX SPIKE SAMPLE: 3475758

Parameter	Units	10672369004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.3	10	11.0	97	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R1
 Pace Project No.: 50356608

QC Batch: 758413	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356608001

METHOD BLANK: 3475782 Matrix: Water
 Associated Lab Samples: 50356608001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/24/23 12:48	

LABORATORY CONTROL SAMPLE: 3475783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475784 3475785

Parameter	Units	50356477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.4	10	10	10.9	10.9	95	96	80-120	1	20	

MATRIX SPIKE SAMPLE: 3475786

Parameter	Units	50356477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.0	10	10.7	97	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

Sample: MW-12D **Lab ID: 50356608001** Collected: 10/17/23 10:40 Received: 10/17/23 13:50 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.480 ± 0.618 (1.38) C:NA T:92%	pCi/L	11/02/23 15:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.08 ± 0.466 (0.720) C:75% T:75%	pCi/L	10/30/23 14:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.08 ± 1.08 (2.10)	pCi/L	11/07/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Field Blank Lab ID: 50356608002 Collected: 10/17/23 11:35 Received: 10/17/23 13:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.158 ± 0.437 (0.848) C:NA T:87%	pCi/L	11/02/23 15:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.533 ± 0.430 (0.845) C:77% T:73%	pCi/L	10/30/23 14:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.691 ± 0.867 (1.69)	pCi/L	11/07/23 15:57	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch: 624315

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: 50356608001, 50356608002

METHOD BLANK: 3043528

Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.155 ± 0.269 (0.480) C:NA T:84%	pCi/L	11/02/23 14:49	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

QC Batch: 624317

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: 50356608001, 50356608002

METHOD BLANK: 3043531

Matrix: Water

Associated Lab Samples: 50356608001, 50356608002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.355 ± 0.438 (0.925) C:74% T:66%	pCi/L	10/30/23 14:50	

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QUALIFIERS

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R1

Pace Project No.: 50356608

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356608001	MW-12D	EPA 9056	758861		
50356608002	Field Blank	EPA 9056	758861		
50356608001	MW-12D	EPA 3010	758075	EPA 6010	758229
50356608002	Field Blank	EPA 3010	758075	EPA 6010	758229
50356608001	MW-12D	EPA 3010	758164	EPA 6010	759812
50356608001	MW-12D	EPA 200.2	758130	EPA 6020	758297
50356608002	Field Blank	EPA 200.2	758130	EPA 6020	758297
50356608001	MW-12D	EPA 903.1	624315		
50356608002	Field Blank	EPA 903.1	624315		
50356608001	MW-12D	EPA 904.0	624317		
50356608002	Field Blank	EPA 904.0	624317		
50356608001	MW-12D	Total Radium Calculation	627962		
50356608002	Field Blank	Total Radium Calculation	627962		
50356608001	MW-12D	SM 2320B	757859		
50356608002	Field Blank	SM 2320B	757859		
50356608001	MW-12D	SM 2540C	758479		
50356608002	Field Blank	SM 2540C	758479		
50356608001	MW-12D	SM 4500-H+B	759376		
50356608002	Field Blank	SM 4500-H+B	759376		
50356608001	MW-12D	SM 4500-S2-D	758342		
50356608002	Field Blank	SM 4500-S2-D	758342		
50356608001	MW-12D	HACH 8146	757931		
50356608002	Field Blank	HACH 8146	757931		
50356608001	MW-12D	EPA 353.2	757869		
50356608002	Field Blank	EPA 353.2	757869		
50356608001	MW-12D	EPA 365.1	759243	EPA 365.1	759487
50356608002	Field Blank	EPA 365.1	759243	EPA 365.1	759487
50356608001	MW-12D	SM 5310C	758402		
50356608002	Field Blank	SM 5310C	758409		
50356608001	MW-12D	SM 5310C	758413		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/17/23 1358 CRR

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 7 8** (A) B C D E F G H

4. Cooler Temperature(s): 1.2/1.2
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NB2/NB3</u>	/		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>15:00</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			/

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFLU	WGKU	BG1U	MeOH (only)		VOA VIAL HS >6mm	AMBER GLASS							PLASTIC							OTHER			Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9								
				SBS	DI		DG9H	VG9H	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N						BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	
				R	Red		Yellow	Green	Black																											
1																	2	1	2	1	1	1							WI	✓	✓		✓			
2																	2	1	2	1	1	1							WI	✓	✓		✓			
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFLU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic	Miscellaneous	
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic	Syringe Kit	LL Cr+6 sampling kit
BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
BP2S	500mL H2SO4 plastic	R	Terracore Kit
BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
BP2Z	500mL NaOH, Zn Ac	GN	General Container
BP3B	250mL NaOH plastic	U	Summa Can (air sample)
BP3N	250mL HNO3 plastic	WT	Water
BP3F	250mL HNO3 plastic-field filtered	SL	Solid
BP3U	250mL unpreserved plastic	OL	Oil
BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe
BP3R	250mL Unpres. FF SO4/OH buffer		



January 26, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R2
Pace Project No.: 50356609

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R2
Pace Project No.: 50356609

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50356609001	MW-24S	Water	10/17/23 11:25	10/17/23 13:50
50356609002	MW-24I	Water	10/17/23 11:30	10/17/23 13:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50356609001	MW-24S	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	FRW	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	STS	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	DAW	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50356609002	MW-24I	EPA 9056	ADM
EPA 6010	MTM			11	PASI-I
EPA 6010	FRW			2	PASI-I
EPA 6020	CAW			5	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	AEL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	STS			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	DAW			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50356609001	MW-24S					
EPA 9056	Chloride	112	mg/L	2.5	10/29/23 07:16	
EPA 9056	Fluoride	0.42	mg/L	0.10	10/29/23 06:58	
EPA 9056	Sulfate	94.4	mg/L	2.5	10/29/23 07:16	
EPA 6010	Boron	208	ug/L	100	10/19/23 15:19	
EPA 6010	Calcium	68200	ug/L	1000	10/19/23 15:19	
EPA 6010	Magnesium	20800	ug/L	1000	10/19/23 15:19	
EPA 6010	Manganese	80.0	ug/L	10.0	10/19/23 15:19	
EPA 6010	Molybdenum	56.5	ug/L	10.0	10/19/23 15:19	
EPA 6010	Potassium	5360	ug/L	1000	10/19/23 15:19	
EPA 6010	Silica	11000	ug/L	450	10/19/23 15:19	N2
EPA 6010	Sodium	92500	ug/L	1000	10/19/23 15:19	
EPA 6010	Manganese, Dissolved	83.7	ug/L	10.0	10/30/23 16:28	
EPA 6010	Molybdenum, Dissolved	54.9	ug/L	10.0	10/30/23 16:28	
EPA 6020	Barium	77.4	ug/L	1.0	10/21/23 00:19	
EPA 903.1	Radium-226	0.520 ± 0.486 (0.689)	pCi/L		11/06/23 15:20	
EPA 904.0	Radium-228	C:NA T:81% 0.587 ± 0.417 (0.802)	pCi/L		11/01/23 14:23	
		C:79% T:84%				
Total Radium Calculation	Total Radium	1.11 ± 0.903 (1.49)	pCi/L		11/07/23 15:05	
SM 2320B	Alkalinity, Total as CaCO3	215	mg/L	10.0	10/17/23 20:50	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	215	mg/L	10.0	10/17/23 20:50	
SM 2540C	Total Dissolved Solids	527	mg/L	10.0	10/21/23 11:16	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/26/23 16:42	H3
EPA 353.2	Nitrogen, Nitrate	1.5	mg/L	0.10	10/18/23 00:12	
EPA 353.2	Nitrogen, Nitrite	0.27	mg/L	0.10	10/18/23 00:12	
SM 5310C	Total Organic Carbon	1.3	mg/L	1.0	10/20/23 21:06	
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	10/24/23 20:52	
50356609002	MW-24I					
EPA 9056	Chloride	76.4	mg/L	2.5	10/29/23 07:53	
EPA 9056	Fluoride	0.31	mg/L	0.10	10/29/23 07:35	
EPA 9056	Sulfate	72.3	mg/L	2.5	10/29/23 07:53	
EPA 6010	Boron	122	ug/L	100	10/19/23 15:20	
EPA 6010	Calcium	72500	ug/L	1000	10/19/23 15:20	
EPA 6010	Iron	641	ug/L	100	10/19/23 15:20	
EPA 6010	Magnesium	21700	ug/L	1000	10/19/23 15:20	
EPA 6010	Manganese	156	ug/L	10.0	10/19/23 15:20	
EPA 6010	Molybdenum	52.8	ug/L	10.0	10/19/23 15:20	
EPA 6010	Potassium	6400	ug/L	1000	10/19/23 15:20	
EPA 6010	Silica	10400	ug/L	450	10/19/23 15:20	N2
EPA 6010	Sodium	64800	ug/L	1000	10/19/23 15:20	
EPA 6010	Manganese, Dissolved	171	ug/L	10.0	10/30/23 16:30	
EPA 6010	Molybdenum, Dissolved	52.9	ug/L	10.0	10/30/23 16:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356609002	MW-24I					
EPA 6020	Arsenic	1.6	ug/L	1.0	10/21/23 00:29	
EPA 6020	Barium	75.7	ug/L	1.0	10/21/23 00:29	
EPA 903.1	Radium-226	1.12 ± 0.520 (0.160)	pCi/L		11/06/23 15:20	
EPA 904.0	Radium-228	C:NA T:88% 0.618 ± 0.397 (0.731)	pCi/L		11/01/23 14:23	
Total Radium Calculation	Total Radium	C:75% T:84% 1.74 ± 0.917 (0.891)	pCi/L		11/07/23 15:05	
SM 2320B	Alkalinity, Total as CaCO3	248	mg/L	10.0	10/17/23 20:50	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	10/17/23 20:50	
SM 2540C	Total Dissolved Solids	477	mg/L	10.0	10/21/23 11:17	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/26/23 16:43	H3
SM 4500-S2-D	Sulfide	0.030J	mg/L	0.10	10/20/23 12:38	
HACH 8146	Iron, Ferrous	0.50	mg/L	0.20	10/18/23 15:56	H3,N2
SM 5310C	Total Organic Carbon	1.3	mg/L	1.0	10/20/23 21:26	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	10/24/23 21:56	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

Sample: MW-24S		Lab ID: 50356609001		Collected: 10/17/23 11:25		Received: 10/17/23 13:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	112	mg/L	2.5	0.67	10		10/29/23 07:16	16887-00-6	
Fluoride	0.42	mg/L	0.10	0.017	1		10/29/23 06:58	16984-48-8	
Sulfate	94.4	mg/L	2.5	1.9	10		10/29/23 07:16	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Aluminum	ND	ug/L	200	79.3	1	10/18/23 20:40	10/19/23 15:19	7429-90-5	
Boron	208	ug/L	100	11.4	1	10/18/23 20:40	10/19/23 15:19	7440-42-8	
Calcium	68200	ug/L	1000	56.7	1	10/18/23 20:40	10/19/23 15:19	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/18/23 20:40	10/19/23 15:19	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/18/23 20:40	10/19/23 15:19	7439-93-2	
Magnesium	20800	ug/L	1000	32.8	1	10/18/23 20:40	10/19/23 15:19	7439-95-4	
Manganese	80.0	ug/L	10.0	1.1	1	10/18/23 20:40	10/19/23 15:19	7439-96-5	
Molybdenum	56.5	ug/L	10.0	1.1	1	10/18/23 20:40	10/19/23 15:19	7439-98-7	
Potassium	5360	ug/L	1000	120	1	10/18/23 20:40	10/19/23 15:19	7440-09-7	
Silica	11000	ug/L	450		1	10/18/23 20:40	10/19/23 15:19	7631-86-9	N2
Sodium	92500	ug/L	1000	48.2	1	10/18/23 20:40	10/19/23 15:19	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	83.7	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:28	7439-96-5	
Molybdenum, Dissolved	54.9	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:28	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.49	1	10/19/23 15:10	10/21/23 00:19	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	10/19/23 15:10	10/21/23 00:19	7440-38-2	
Barium	77.4	ug/L	1.0	0.077	1	10/19/23 15:10	10/21/23 00:19	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/19/23 15:10	10/21/23 00:19	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/19/23 15:10	10/21/23 00:19	7782-49-2	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	215	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Bicarbonate (CaCO3)	215	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 20:50		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	527	mg/L	10.0	10.0	1		10/21/23 11:16		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/26/23 16:42		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

Sample: MW-24S		Lab ID: 50356609001		Collected: 10/17/23 11:25	Received: 10/17/23 13:50	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/20/23 12:38	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 15:56	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	1.5	mg/L	0.10	0.011	1		10/18/23 00:12	14797-55-8		
Nitrogen, Nitrite	0.27	mg/L	0.10	0.0040	1		10/18/23 00:12	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/26/23 12:30	10/27/23 09:40			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.3	mg/L	1.0	0.24	1		10/20/23 21:06	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.6	mg/L	1.0	0.24	1		10/24/23 20:52			

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356609

Sample: MW-24I		Lab ID: 50356609002		Collected: 10/17/23 11:30		Received: 10/17/23 13:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	76.4	mg/L	2.5	0.67	10		10/29/23 07:53	16887-00-6	
Fluoride	0.31	mg/L	0.10	0.017	1		10/29/23 07:35	16984-48-8	
Sulfate	72.3	mg/L	2.5	1.9	10		10/29/23 07:53	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/18/23 20:40	10/19/23 15:20	7429-90-5	
Boron	122	ug/L	100	11.4	1	10/18/23 20:40	10/19/23 15:20	7440-42-8	
Calcium	72500	ug/L	1000	56.7	1	10/18/23 20:40	10/19/23 15:20	7440-70-2	
Iron	641	ug/L	100	18.1	1	10/18/23 20:40	10/19/23 15:20	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/18/23 20:40	10/19/23 15:20	7439-93-2	
Magnesium	21700	ug/L	1000	32.8	1	10/18/23 20:40	10/19/23 15:20	7439-95-4	
Manganese	156	ug/L	10.0	1.1	1	10/18/23 20:40	10/19/23 15:20	7439-96-5	
Molybdenum	52.8	ug/L	10.0	1.1	1	10/18/23 20:40	10/19/23 15:20	7439-98-7	
Potassium	6400	ug/L	1000	120	1	10/18/23 20:40	10/19/23 15:20	7440-09-7	
Silica	10400	ug/L	450		1	10/18/23 20:40	10/19/23 15:20	7631-86-9	N2
Sodium	64800	ug/L	1000	48.2	1	10/18/23 20:40	10/19/23 15:20	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	171	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:30	7439-96-5	
Molybdenum, Dissolved	52.9	ug/L	10.0	1.1	1	10/24/23 08:48	10/30/23 16:30	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/19/23 15:10	10/21/23 00:29	7440-36-0	
Arsenic	1.6	ug/L	1.0	0.075	1	10/19/23 15:10	10/21/23 00:29	7440-38-2	
Barium	75.7	ug/L	1.0	0.077	1	10/19/23 15:10	10/21/23 00:29	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/19/23 15:10	10/21/23 00:29	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/19/23 15:10	10/21/23 00:29	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	248	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	10.0	1		10/17/23 20:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/17/23 20:50		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	477	mg/L	10.0	10.0	1		10/21/23 11:17		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		10/26/23 16:43		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

Sample: MW-24I		Lab ID: 50356609002		Collected: 10/17/23 11:30	Received: 10/17/23 13:50	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	0.030J	mg/L	0.10	0.025	1		10/20/23 12:38	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	0.50	mg/L	0.20	0.035	1		10/18/23 15:56	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/18/23 00:16	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/18/23 00:16	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/26/23 12:30	10/27/23 09:41			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.3	mg/L	1.0	0.24	1		10/20/23 21:26	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.4	mg/L	1.0	0.24	1		10/24/23 21:56			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch:	758852	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3477627 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/28/23 18:06	
Fluoride	mg/L	ND	0.10	0.017	10/28/23 18:06	
Sulfate	mg/L	ND	0.25	0.19	10/28/23 18:06	

LABORATORY CONTROL SAMPLE: 3477628

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3477629 3477630

Parameter	Units	50356477002		3477630		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
Chloride	mg/L	63.9	25	25	87.8	87.5	96	94	80-120	0	15		
Fluoride	mg/L	0.30	1	1	1.3	1.3	96	97	80-120	0	15		
Sulfate	mg/L	48.5	50	50	94.7	94.8	92	93	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch:	758075	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3473973 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/19/23 14:39	
Boron	ug/L	ND	100	11.4	10/19/23 14:39	
Calcium	ug/L	ND	1000	56.7	10/19/23 14:39	
Iron	ug/L	ND	100	18.1	10/19/23 14:39	
Lithium	ug/L	ND	20.0	5.1	10/19/23 14:39	
Magnesium	ug/L	ND	1000	32.8	10/19/23 14:39	
Manganese	ug/L	ND	10.0	1.1	10/19/23 14:39	
Molybdenum	ug/L	ND	10.0	1.1	10/19/23 14:39	
Potassium	ug/L	ND	1000	120	10/19/23 14:39	
Silica	ug/L	ND	450		10/19/23 14:39	N2
Sodium	ug/L	ND	1000	48.2	10/19/23 14:39	

LABORATORY CONTROL SAMPLE: 3473974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9540	95	80-120	
Boron	ug/L	1000	935	94	80-120	
Calcium	ug/L	10000	9610	96	80-120	
Iron	ug/L	10000	9100	91	80-120	
Lithium	ug/L	1000	963	96	80-120	
Magnesium	ug/L	10000	9350	94	80-120	
Manganese	ug/L	1000	940	94	80-120	
Molybdenum	ug/L	1000	994	99	80-120	
Potassium	ug/L	10000	9600	96	80-120	
Silica	ug/L	10700	10100	95	80-120	N2
Sodium	ug/L	10000	9420	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473975 3473976

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50356749009 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	25600	10000	10000	42500	42100	168	165	75-125	1	20	M3
Boron	ug/L	ND	1000	1000	923	891	88	85	75-125	4	20	
Calcium	ug/L	152000	10000	10000	150000	149000	-26	-32	75-125	0	20	P6
Iron	ug/L	35400	10000	10000	42400	41900	70	65	75-125	1	20	M3
Lithium	ug/L	42.7	1000	1000	961	942	92	90	75-125	2	20	
Magnesium	ug/L	56100	10000	10000	60800	60400	47	43	75-125	1	20	P6

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473975 3473976												
Parameter	Units	50356749009		MS		MSD		3473976		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Manganese	ug/L	432	1000	1000	1280	1240	84	80	75-125	3	20	
Molybdenum	ug/L	ND	1000	1000	944	907	94	90	75-125	4	20	
Potassium	ug/L	3730	10000	10000	13700	13600	100	99	75-125	1	20	
Silica	ug/L	99800	10700	10700	145000	148000	422	450	75-125	2	20	N2
Sodium	ug/L	30100	10000	10000	36600	36700	65	66	75-125	0	20	M3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch: 758164	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3474473 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/30/23 15:44	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/30/23 15:44	

LABORATORY CONTROL SAMPLE: 3474474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	2000	2040	102	80-120	
Molybdenum, Dissolved	ug/L	2000	2030	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3474475 3474476

Parameter	Units	50356558001		3474476		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Manganese, Dissolved	ug/L	2690	1000	1000	3610	3760	93	108	75-125	4	20
Molybdenum, Dissolved	ug/L	112	1000	1000	1140	1170	103	106	75-125	3	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356609

QC Batch: 758130	Analysis Method: EPA 6020
QC Batch Method: EPA 200.2	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3474375 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	10/24/23 04:01	
Arsenic	ug/L	ND	1.0	0.075	10/20/23 22:27	
Barium	ug/L	ND	1.0	0.077	10/20/23 22:27	
Cobalt	ug/L	ND	1.0	0.046	10/20/23 22:27	
Selenium	ug/L	ND	1.0	0.20	10/20/23 22:27	

LABORATORY CONTROL SAMPLE: 3474376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.5	104	80-120	
Arsenic	ug/L	40	37.7	94	80-120	
Barium	ug/L	40	38.3	96	80-120	
Cobalt	ug/L	40	41.9	105	80-120	
Selenium	ug/L	40	38.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3474377 3474378

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356609002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.0	41.2	102	103	75-125	1	20
Arsenic	ug/L	1.6	40	40	38.4	38.5	92	92	75-125	0	20
Barium	ug/L	75.7	40	40	117	117	104	104	75-125	0	20
Cobalt	ug/L	ND	40	40	39.1	38.5	97	96	75-125	2	20
Selenium	ug/L	ND	40	40	38.3	37.7	96	94	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch: 757858	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3473134 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/17/23 20:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 20:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/17/23 20:50	

LABORATORY CONTROL SAMPLE: 3473135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.5	95	90-110	

SAMPLE DUPLICATE: 3473136

Parameter	Units	50356557001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	252	258	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	243	248	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3473137

Parameter	Units	50356557002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	258	263	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	244	249	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	13.6	14.0	3	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch: 758479	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3476269 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/21/23 11:15	

LABORATORY CONTROL SAMPLE: 3476270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	286	95	80-120	

SAMPLE DUPLICATE: 3476271

Parameter	Units	50356608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	469	484	3	10	

SAMPLE DUPLICATE: 3476272

Parameter	Units	50356609001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	527	530	1	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch: 759376

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

SAMPLE DUPLICATE: 3480078

Parameter	Units	50356425005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	2	H3

SAMPLE DUPLICATE: 3480079

Parameter	Units	50356733014 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch:	758342	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3475470 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/20/23 12:38	

LABORATORY CONTROL SAMPLE: 3475471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.54	108	90-110	

MATRIX SPIKE SAMPLE: 3475472

Parameter	Units	50356609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.47	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475473 3475474

Parameter	Units	50356907007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.43	0.44	87	88	90-110	1	20	M3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2
 Pace Project No.: 50356609

QC Batch: 757931 Analysis Method: HACH 8146
 QC Batch Method: HACH 8146 Analysis Description: Iron, Ferrous
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3473380 Matrix: Water
 Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 15:39	H3,N2

LABORATORY CONTROL SAMPLE: 3473381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.99	99	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473382 3473383

Parameter	Units	50356477002		3473383		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Iron, Ferrous	mg/L	0.62	1	1	1.6	1.6	100	103	90-110	2	20	H3,N2

MATRIX SPIKE SAMPLE: 3473384

Parameter	Units	50356558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	102	90-110	H3,N2

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch:	757869	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3473217 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/17/23 23:35	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/17/23 23:35	

LABORATORY CONTROL SAMPLE: 3473218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	100	90-110	
Nitrogen, Nitrite	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 3473219

Parameter	Units	50356561003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	1	3.1	94	90-110	
Nitrogen, Nitrite	mg/L	ND	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 3473220

Parameter	Units	50356558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.1	103	90-110	
Nitrogen, Nitrite	mg/L	ND	1	0.99	99	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch: 759243	Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1	Analysis Description: 365.1 Total Phosphorus
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3479422 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/27/23 09:29	

LABORATORY CONTROL SAMPLE: 3479423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3479424 3479425

Parameter	Units	50356461002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	45.3			104	104				0		

MATRIX SPIKE SAMPLE: 3479426

Parameter	Units	50356609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		ND	1.5			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch:	758409	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3475754 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/20/23 20:02	

LABORATORY CONTROL SAMPLE: 3475755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475756 3475757

Parameter	Units	10672369003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.4	10	10	11.2	11.2	97	98	80-120	0	20	

MATRIX SPIKE SAMPLE: 3475758

Parameter	Units	10672369004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.3	10	11.0	97	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch:	758413	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50356609001, 50356609002

METHOD BLANK: 3475782 Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/24/23 12:48	

LABORATORY CONTROL SAMPLE: 3475783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3475784 3475785

Parameter	Units	50356477002		50356477003		50356477004		50356477005		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Dissolved Organic Carbon	mg/L	1.4	10	10	10.9	10.9	95	96	80-120	1	20		

MATRIX SPIKE SAMPLE: 3475786

Parameter	Units	50356477003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.0	10	10.7	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

Sample: MW-24S **Lab ID: 50356609001** Collected: 10/17/23 11:25 Received: 10/17/23 13:50 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.520 ± 0.486 (0.689) C:NA T:81%	pCi/L	11/06/23 15:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.587 ± 0.417 (0.802) C:79% T:84%	pCi/L	11/01/23 14:23	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.11 ± 0.903 (1.49)	pCi/L	11/07/23 15:05	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

Sample: MW-24I **Lab ID: 50356609002** Collected: 10/17/23 11:30 Received: 10/17/23 13:50 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.12 ± 0.520 (0.160) C:NA T:88%	pCi/L	11/06/23 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.618 ± 0.397 (0.731) C:75% T:84%	pCi/L	11/01/23 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.74 ± 0.917 (0.891)	pCi/L	11/07/23 15:05	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch: 624104

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: 50356609001, 50356609002

METHOD BLANK: 3042562

Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0466 ± 0.213 (0.502) C:NA T:87%	pCi/L	11/06/23 14:52	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

QC Batch: 624107

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: 50356609001, 50356609002

METHOD BLANK: 3042563

Matrix: Water

Associated Lab Samples: 50356609001, 50356609002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.674 ± 0.376 (0.667) C:82% T:82%	pCi/L	11/01/23 14:17	

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QUALIFIERS

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R2

Pace Project No.: 50356609

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356609001	MW-24S	EPA 9056	758852		
50356609002	MW-24I	EPA 9056	758852		
50356609001	MW-24S	EPA 3010	758075	EPA 6010	758229
50356609002	MW-24I	EPA 3010	758075	EPA 6010	758229
50356609001	MW-24S	EPA 3010	758164	EPA 6010	759812
50356609002	MW-24I	EPA 3010	758164	EPA 6010	759812
50356609001	MW-24S	EPA 200.2	758130	EPA 6020	758297
50356609002	MW-24I	EPA 200.2	758130	EPA 6020	758297
50356609001	MW-24S	EPA 903.1	624104		
50356609002	MW-24I	EPA 903.1	624104		
50356609001	MW-24S	EPA 904.0	624107		
50356609002	MW-24I	EPA 904.0	624107		
50356609001	MW-24S	Total Radium Calculation	627940		
50356609002	MW-24I	Total Radium Calculation	627940		
50356609001	MW-24S	SM 2320B	757858		
50356609002	MW-24I	SM 2320B	757858		
50356609001	MW-24S	SM 2540C	758479		
50356609002	MW-24I	SM 2540C	758479		
50356609001	MW-24S	SM 4500-H+B	759376		
50356609002	MW-24I	SM 4500-H+B	759376		
50356609001	MW-24S	SM 4500-S2-D	758342		
50356609002	MW-24I	SM 4500-S2-D	758342		
50356609001	MW-24S	HACH 8146	757931		
50356609002	MW-24I	HACH 8146	757931		
50356609001	MW-24S	EPA 353.2	757869		
50356609002	MW-24I	EPA 353.2	757869		
50356609001	MW-24S	EPA 365.1	759243	EPA 365.1	759487
50356609002	MW-24I	EPA 365.1	759243	EPA 365.1	759487
50356609001	MW-24S	SM 5310C	758409		
50356609002	MW-24I	SM 5310C	758409		
50356609001	MW-24S	SM 5310C	758413		
50356609002	MW-24I	SM 5310C	758413		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/17/23 1358 CAR

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

4. Cooler Temperature(s): 1.0/1.0
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO2/NO3</u>	/		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			/

COMMENTS:

Sample Container Count

** Place a RED dot on containers

that are out of conformance **

COC Line Item	WGFKU	WGKU BG1U	MeOH (only)	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS					BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	OTHER	Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
			SBS							Red	Yellow	Green	Black																			
	R		DI								AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B									HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9			
1																										W	✓	✓		✓		
2																										W	✓	✓		✓		
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass	
DG9H	40mL HCl amber voa vial
DG9P	40mL TSP amber vial
DG9S	40mL H2SO4 amber vial
DG9T	40mL Na Thio amber vial
DG9U	40mL unpreserved amber vial
VG9H	40mL HCl clear vial
VG9T	40mL Na Thio. clear vial
VG9U	40mL unpreserved clear vial
I	40mL w/hexane wipe vial
WGKU	8oz unpreserved clear jar
WGFKU	4oz clear soil jar
JGFKU	4oz unpreserved amber wide
CG3H	250mL clear glass HCl
CG3F	250mL clear glass HCl, Field Filter
BG1H	1L HCl clear glass
BG1S	1L H2SO4 clear glass
BG1T	glass
BG1U	1L unpreserved glass
CG3U	250mL Unpres Clear Glass
AG0U	100mL unpres amber glass
AG1H	1L HCl amber glass
AG1S	1L H2SO4 amber glass
AG1T	1L Na Thiosulfate amber glass
AG1U	1liter unpres amber glass
AG2N	500mL HNO3 amber glass
AG2S	500mL H2SO4 amber glass
AG2U	500mL unpres amber glass
AG3S	250mL H2SO4 amber glass
AG3SF	250mL H2SO4 amb glass -field filtered
AG3U	250mL unpres amber glass
AG3B	250mL NaOH amber glass

Plastic	
BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP3R	250mL Unpres. FF SO4/OH buffer
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
Miscellaneous	
Syringe Kit	LL Cr+6 sampling kit
ZPLOC	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



January 26, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50358788

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355754006	MW-4I	Water	10/06/23 11:10	10/06/23 17:10
50355754007	MW-4D	Water	10/06/23 11:20	10/06/23 17:10
50355754008	MW-4D MS	Water	10/06/23 11:20	10/06/23 17:10
50355754009	MW-4D MSD	Water	10/06/23 11:20	10/06/23 17:10
50355754010	MW-9S	Water	10/06/23 13:35	10/06/23 17:10
50355754011	Dup-1	Water	10/06/23 08:00	10/06/23 17:10

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50358788

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355754006	MW-4I	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	OAS	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		50355754007	MW-4D	EPA 9056	KBB
EPA 6010	MTM			11	PASI-I
EPA 6010	MTM			2	PASI-I
EPA 6020	CAW			5	PASI-I
EPA 903.1	MAR1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	IRH			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
SM 4500-S2-D	AEL			1	PASI-I
HACH 8146	STS			1	PASI-I
EPA 353.2	OAS			2	PASI-I
EPA 365.1	YAM			1	PASI-I
SM 5310C	ATS			1	PASI-I
SM 5310C	ATS			1	PASI-I
50355754008	MW-4D MS			EPA 903.1	MAR1
		EPA 904.0	ZPC	1	PASI-PA
50355754009	MW-4D MSD	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
50355754010	MW-9S	EPA 9056	KBB	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	OAS	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I
50355754011	Dup-1	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	11	PASI-I
		EPA 6010	MTM	2	PASI-I
		EPA 6020	CAW	5	PASI-I
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		SM 4500-S2-D	AEL	1	PASI-I
		HACH 8146	STS	1	PASI-I
		EPA 353.2	OAS	2	PASI-I
		EPA 365.1	YAM	1	PASI-I
		SM 5310C	ATS	1	PASI-I
		SM 5310C	ATS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355754006	MW-4I					
EPA 9056	Chloride	92.1	mg/L	2.5	10/18/23 01:07	
EPA 9056	Fluoride	0.36	mg/L	0.10	10/18/23 00:51	
EPA 9056	Sulfate	62.7	mg/L	2.5	10/18/23 01:07	
EPA 6010	Boron	124	ug/L	100	10/18/23 16:50	
EPA 6010	Calcium	73600	ug/L	1000	10/18/23 16:50	
EPA 6010	Iron	568	ug/L	100	10/18/23 16:50	
EPA 6010	Magnesium	23000	ug/L	1000	10/18/23 16:50	
EPA 6010	Manganese	142	ug/L	10.0	10/18/23 16:50	
EPA 6010	Molybdenum	11.1	ug/L	10.0	10/18/23 16:50	
EPA 6010	Potassium	3610	ug/L	1000	10/18/23 16:50	
EPA 6010	Silica	10700	ug/L	450	10/18/23 16:50	N2
EPA 6010	Sodium	71600	ug/L	1000	10/18/23 16:50	
EPA 6010	Manganese, Dissolved	150	ug/L	10.0	10/20/23 12:53	
EPA 6010	Molybdenum, Dissolved	12.0	ug/L	10.0	10/20/23 12:53	
EPA 6020	Arsenic	1.3	ug/L	1.0	10/10/23 10:36	
EPA 6020	Barium	65.5	ug/L	1.0	10/10/23 10:36	
EPA 903.1	Radium-226	0.532 ± 0.534 (0.833)	pCi/L		10/26/23 13:29	
EPA 904.0	Radium-228	C:NA T:84% 0.250 ± 0.330 (0.704)	pCi/L		10/24/23 12:21	
		C:79% T:82%				
Total Radium Calculation	Total Radium	0.782 ± 0.864 (1.54)	pCi/L		10/27/23 17:12	
SM 2320B	Alkalinity, Total as CaCO3	248	mg/L	10.0	10/09/23 20:45	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	10/09/23 20:45	
SM 2540C	Total Dissolved Solids	462	mg/L	10.0	10/23/23 14:04	H7
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/20/23 14:29	H3
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	10/14/23 17:02	
SM 5310C	Dissolved Organic Carbon	2.2	mg/L	1.0	10/13/23 21:12	
50355754007	MW-4D					
EPA 9056	Chloride	117	mg/L	2.5	10/18/23 01:55	
EPA 9056	Fluoride	0.27	mg/L	0.10	10/18/23 01:39	
EPA 9056	Sulfate	61.5	mg/L	2.5	10/18/23 01:55	
EPA 6010	Boron	105	ug/L	100	10/18/23 16:52	
EPA 6010	Calcium	82500	ug/L	1000	10/18/23 16:52	
EPA 6010	Iron	1310	ug/L	100	10/18/23 16:52	
EPA 6010	Magnesium	26300	ug/L	1000	10/18/23 16:52	
EPA 6010	Manganese	217	ug/L	10.0	10/18/23 16:52	
EPA 6010	Molybdenum	11.3	ug/L	10.0	10/18/23 16:52	
EPA 6010	Potassium	3490	ug/L	1000	10/18/23 16:52	
EPA 6010	Silica	11400	ug/L	450	10/18/23 16:52	N2
EPA 6010	Sodium	69200	ug/L	1000	10/18/23 16:52	
EPA 6010	Manganese, Dissolved	216	ug/L	10.0	10/20/23 12:58	
EPA 6010	Molybdenum, Dissolved	10.6	ug/L	10.0	10/20/23 12:58	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355754007	MW-4D					
EPA 6020	Arsenic	5.0	ug/L	1.0	10/10/23 10:39	
EPA 6020	Barium	65.3	ug/L	1.0	10/10/23 10:39	
EPA 903.1	Radium-226	0.276 ± 0.424 (0.730)	pCi/L		10/26/23 13:29	
EPA 904.0	Radium-228	C:NA T:88% 0.937 ± 0.414 (0.672)	pCi/L		10/24/23 12:21	
		C:77% T:83%				
Total Radium Calculation	Total Radium	1.21 ± 0.838 (1.40)	pCi/L		10/27/23 17:12	
SM 2320B	Alkalinity, Total as CaCO3	238	mg/L	10.0	10/09/23 20:45	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	238	mg/L	10.0	10/09/23 20:45	
SM 2540C	Total Dissolved Solids	504	mg/L	10.0	10/12/23 13:22	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/20/23 14:16	H3
HACH 8146	Iron, Ferrous	0.28	mg/L	0.20	10/18/23 10:17	H3,N2
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	10/14/23 00:30	
SM 5310C	Dissolved Organic Carbon	1.8	mg/L	1.0	10/13/23 21:23	
50355754008	MW-4D MS					
EPA 903.1	Radium-226	79.59 %REC ± NA (NA)	pCi/L		10/26/23 13:29	
EPA 904.0	Radium-228	C:NA T:NA 72.44 %REC ± NA (NA)	pCi/L		10/24/23 12:21	
		C:NA T:NA				
50355754009	MW-4D MSD					
EPA 903.1	Radium-226	108.22 %REC 30.49RPD ± NA (NA)	pCi/L		10/26/23 13:29	
EPA 904.0	Radium-228	C:NA T:NA 81.65 %REC 11.96RPD ± NA (NA)	pCi/L		10/24/23 12:20	
		C:NA T:NA				
50355754010	MW-9S					
EPA 9056	Chloride	567	mg/L	25.0	10/18/23 02:44	
EPA 9056	Fluoride	0.61	mg/L	0.10	10/18/23 02:28	
EPA 9056	Sulfate	1770	mg/L	25.0	10/18/23 02:44	
EPA 6010	Boron	5800	ug/L	100	10/18/23 17:04	
EPA 6010	Calcium	504000	ug/L	3000	10/18/23 17:13	
EPA 6010	Lithium	166	ug/L	20.0	10/18/23 17:04	
EPA 6010	Magnesium	117000	ug/L	1000	10/18/23 17:04	
EPA 6010	Manganese	366	ug/L	10.0	10/18/23 17:04	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50358788

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50355754010	MW-9S					
EPA 6010	Molybdenum	323	ug/L	10.0	10/18/23 17:04	
EPA 6010	Potassium	26800	ug/L	1000	10/18/23 17:04	
EPA 6010	Silica	48200	ug/L	450	10/18/23 17:04	N2
EPA 6010	Sodium	384000	ug/L	3000	10/18/23 17:13	
EPA 6010	Manganese, Dissolved	362	ug/L	10.0	10/20/23 13:05	
EPA 6010	Molybdenum, Dissolved	306	ug/L	10.0	10/20/23 13:05	
EPA 6020	Arsenic	13.8	ug/L	1.0	10/10/23 11:02	
EPA 6020	Barium	157	ug/L	1.0	10/10/23 11:02	
EPA 6020	Selenium	4.8	ug/L	1.0	10/10/23 11:02	
EPA 903.1	Radium-226	0.203 ± 0.398 (0.727) C:NA T:88%	pCi/L		10/26/23 13:57	
EPA 904.0	Radium-228	0.196 ± 0.301 (0.650) C:81% T:79%	pCi/L		10/24/23 12:20	
Total Radium Calculation	Total Radium	0.399 ± 0.699 (1.38)	pCi/L		10/27/23 17:12	
SM 2320B	Alkalinity, Total as CaCO3	232	mg/L	10.0	10/09/23 20:45	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	232	mg/L	10.0	10/09/23 20:45	
SM 2540C	Total Dissolved Solids	3500	mg/L	40.0	10/12/23 13:22	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/20/23 14:31	H3
EPA 353.2	Nitrogen, Nitrate	4.6	mg/L	0.10	10/07/23 10:00	
EPA 365.1	Phosphate as P04	2.5	mg/L	0.15	10/17/23 18:04	
50355754011	Dup-1					
EPA 9056	Chloride	588	mg/L	25.0	10/18/23 05:42	
EPA 9056	Fluoride	0.62	mg/L	0.10	10/18/23 05:10	
EPA 9056	Sulfate	1860	mg/L	25.0	10/18/23 05:42	
EPA 6010	Boron	5740	ug/L	100	10/18/23 17:05	
EPA 6010	Calcium	505000	ug/L	3000	10/18/23 17:14	
EPA 6010	Lithium	166	ug/L	20.0	10/18/23 17:05	
EPA 6010	Magnesium	116000	ug/L	1000	10/18/23 17:05	
EPA 6010	Manganese	361	ug/L	10.0	10/18/23 17:05	
EPA 6010	Molybdenum	318	ug/L	10.0	10/18/23 17:05	
EPA 6010	Potassium	26900	ug/L	1000	10/18/23 17:05	
EPA 6010	Silica	47800	ug/L	450	10/18/23 17:05	N2
EPA 6010	Sodium	384000	ug/L	3000	10/18/23 17:14	
EPA 6010	Manganese, Dissolved	368	ug/L	10.0	10/20/23 13:07	
EPA 6010	Molybdenum, Dissolved	311	ug/L	10.0	10/20/23 13:07	
EPA 6020	Arsenic	13.9	ug/L	1.0	10/10/23 11:06	
EPA 6020	Barium	158	ug/L	1.0	10/10/23 11:06	
EPA 6020	Selenium	5.2	ug/L	1.0	10/10/23 11:06	
EPA 903.1	Radium-226	0.0699 ± 0.319 (0.514) C:NA T:84%	pCi/L		10/26/23 13:43	

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SUMMARY OF DETECTION

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355754011	Dup-1					
EPA 904.0	Radium-228	0.544 ± 0.333 (0.590) C:82% T:80%	pCi/L		10/24/23 12:20	
Total Radium Calculation	Total Radium	0.614 ± 0.652 (1.10)	pCi/L		10/27/23 17:12	
SM 2320B	Alkalinity, Total as CaCO3	231	mg/L	10.0	10/09/23 20:45	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	231	mg/L	10.0	10/09/23 20:45	
SM 2540C	Total Dissolved Solids	3540	mg/L	40.0	10/12/23 13:23	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/20/23 14:32	H3
EPA 353.2	Nitrogen, Nitrate	4.6	mg/L	0.10	10/07/23 09:41	
EPA 365.1	Phosphate as P04	2.5	mg/L	0.15	10/17/23 18:04	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50358788

Sample: MW-4I		Lab ID: 50355754006		Collected: 10/06/23 11:10		Received: 10/06/23 17:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	92.1	mg/L	2.5	0.67	10		10/18/23 01:07	16887-00-6	
Fluoride	0.36	mg/L	0.10	0.017	1		10/18/23 00:51	16984-48-8	
Sulfate	62.7	mg/L	2.5	1.9	10		10/18/23 01:07	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/11/23 08:23	10/18/23 16:50	7429-90-5	
Boron	124	ug/L	100	11.4	1	10/11/23 08:23	10/18/23 16:50	7440-42-8	
Calcium	73600	ug/L	1000	56.7	1	10/11/23 08:23	10/18/23 16:50	7440-70-2	
Iron	568	ug/L	100	18.1	1	10/11/23 08:23	10/18/23 16:50	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/11/23 08:23	10/18/23 16:50	7439-93-2	
Magnesium	23000	ug/L	1000	32.8	1	10/11/23 08:23	10/18/23 16:50	7439-95-4	
Manganese	142	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:50	7439-96-5	
Molybdenum	11.1	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:50	7439-98-7	
Potassium	3610	ug/L	1000	120	1	10/11/23 08:23	10/18/23 16:50	7440-09-7	
Silica	10700	ug/L	450		1	10/11/23 08:23	10/18/23 16:50	7631-86-9	N2
Sodium	71600	ug/L	1000	48.2	1	10/11/23 08:23	10/18/23 16:50	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	150	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:53	7439-96-5	
Molybdenum, Dissolved	12.0	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:53	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 10:36	7440-36-0	
Arsenic	1.3	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 10:36	7440-38-2	
Barium	65.5	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 10:36	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 10:36	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 10:36	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	248	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/09/23 20:45		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	462	mg/L	10.0	10.0	1		10/23/23 14:04		H7
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/20/23 14:29		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: MW-4I		Lab ID: 50355754006		Collected: 10/06/23 11:10	Received: 10/06/23 17:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D									
Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146									
Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:17	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/07/23 09:47	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/07/23 09:47	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1									
Pace Analytical Services - Indianapolis									
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:01		
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Total Organic Carbon	1.6	mg/L	1.0	0.24	1		10/14/23 17:02	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	2.2	mg/L	1.0	0.24	1		10/13/23 21:12		

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: MW-4D		Lab ID: 50355754007		Collected: 10/06/23 11:20		Received: 10/06/23 17:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	117	mg/L	2.5	0.67	10		10/18/23 01:55	16887-00-6	
Fluoride	0.27	mg/L	0.10	0.017	1		10/18/23 01:39	16984-48-8	
Sulfate	61.5	mg/L	2.5	1.9	10		10/18/23 01:55	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/11/23 08:23	10/18/23 16:52	7429-90-5	
Boron	105	ug/L	100	11.4	1	10/11/23 08:23	10/18/23 16:52	7440-42-8	
Calcium	82500	ug/L	1000	56.7	1	10/11/23 08:23	10/18/23 16:52	7440-70-2	
Iron	1310	ug/L	100	18.1	1	10/11/23 08:23	10/18/23 16:52	7439-89-6	
Lithium	ND	ug/L	20.0	5.1	1	10/11/23 08:23	10/18/23 16:52	7439-93-2	
Magnesium	26300	ug/L	1000	32.8	1	10/11/23 08:23	10/18/23 16:52	7439-95-4	
Manganese	217	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:52	7439-96-5	
Molybdenum	11.3	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 16:52	7439-98-7	
Potassium	3490	ug/L	1000	120	1	10/11/23 08:23	10/18/23 16:52	7440-09-7	
Silica	11400	ug/L	450		1	10/11/23 08:23	10/18/23 16:52	7631-86-9	N2
Sodium	69200	ug/L	1000	48.2	1	10/11/23 08:23	10/18/23 16:52	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	216	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:58	7439-96-5	
Molybdenum, Dissolved	10.6	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 12:58	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 10:39	7440-36-0	
Arsenic	5.0	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 10:39	7440-38-2	
Barium	65.3	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 10:39	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 10:39	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 10:39	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	238	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Bicarbonate (CaCO3)	238	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/09/23 20:45		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	504	mg/L	10.0	10.0	1		10/12/23 13:22		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		10/20/23 14:16		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: MW-4D		Lab ID: 50355754007		Collected: 10/06/23 11:20	Received: 10/06/23 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	0.28	mg/L	0.20	0.035	1		10/18/23 10:17	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.011	1		10/07/23 09:48	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/07/23 09:48	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	ND	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:01			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	1.8	mg/L	1.0	0.24	1		10/14/23 00:30	7440-44-0		
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.8	mg/L	1.0	0.24	1		10/13/23 21:23			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: MW-9S **Lab ID: 50355754010** Collected: 10/06/23 13:35 Received: 10/06/23 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	567	mg/L	25.0	6.7	100		10/18/23 02:44	16887-00-6	
Fluoride	0.61	mg/L	0.10	0.017	1		10/18/23 02:28	16984-48-8	
Sulfate	1770	mg/L	25.0	19.0	100		10/18/23 02:44	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/11/23 08:23	10/18/23 17:04	7429-90-5	
Boron	5800	ug/L	100	11.4	1	10/11/23 08:23	10/18/23 17:04	7440-42-8	
Calcium	504000	ug/L	3000	170	3	10/11/23 08:23	10/18/23 17:13	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/11/23 08:23	10/18/23 17:04	7439-89-6	
Lithium	166	ug/L	20.0	5.1	1	10/11/23 08:23	10/18/23 17:04	7439-93-2	
Magnesium	117000	ug/L	1000	32.8	1	10/11/23 08:23	10/18/23 17:04	7439-95-4	
Manganese	366	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 17:04	7439-96-5	
Molybdenum	323	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 17:04	7439-98-7	
Potassium	26800	ug/L	1000	120	1	10/11/23 08:23	10/18/23 17:04	7440-09-7	
Silica	48200	ug/L	450		1	10/11/23 08:23	10/18/23 17:04	7631-86-9	N2
Sodium	384000	ug/L	3000	145	3	10/11/23 08:23	10/18/23 17:13	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	362	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 13:05	7439-96-5	
Molybdenum, Dissolved	306	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 13:05	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 11:02	7440-36-0	
Arsenic	13.8	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 11:02	7440-38-2	
Barium	157	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 11:02	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 11:02	7440-48-4	
Selenium	4.8	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 11:02	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	232	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Bicarbonate (CaCO3)	232	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/09/23 20:45		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	3500	mg/L	40.0	40.0	1		10/12/23 13:22		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		10/20/23 14:31		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50358788

Sample: MW-9S Lab ID: 50355754010 Collected: 10/06/23 13:35 Received: 10/06/23 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis									
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8	
Iron, Ferrous									
Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis									
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:27	15438-31-0	H3,N2
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	4.6	mg/L	0.10	0.011	1		10/07/23 10:00	14797-55-8	
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/07/23 10:00	14797-65-0	
365.1 Total Phosphorus									
Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis									
Phosphate as P04	2.5	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:04		
5310C TOC									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Total Organic Carbon	ND	mg/L	4.0	0.94	4		10/16/23 12:28	7440-44-0	D3
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	4.0	0.94	4		10/16/23 10:33		D3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: Dup-1	Lab ID: 50355754011	Collected: 10/06/23 08:00	Received: 10/06/23 17:10	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	588	mg/L	25.0	6.7	100		10/18/23 05:42	16887-00-6	
Fluoride	0.62	mg/L	0.10	0.017	1		10/18/23 05:10	16984-48-8	
Sulfate	1860	mg/L	25.0	19.0	100		10/18/23 05:42	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Aluminum	ND	ug/L	200	79.3	1	10/11/23 08:23	10/18/23 17:05	7429-90-5	
Boron	5740	ug/L	100	11.4	1	10/11/23 08:23	10/18/23 17:05	7440-42-8	
Calcium	505000	ug/L	3000	170	3	10/11/23 08:23	10/18/23 17:14	7440-70-2	
Iron	ND	ug/L	100	18.1	1	10/11/23 08:23	10/18/23 17:05	7439-89-6	
Lithium	166	ug/L	20.0	5.1	1	10/11/23 08:23	10/18/23 17:05	7439-93-2	
Magnesium	116000	ug/L	1000	32.8	1	10/11/23 08:23	10/18/23 17:05	7439-95-4	
Manganese	361	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 17:05	7439-96-5	
Molybdenum	318	ug/L	10.0	1.1	1	10/11/23 08:23	10/18/23 17:05	7439-98-7	
Potassium	26900	ug/L	1000	120	1	10/11/23 08:23	10/18/23 17:05	7440-09-7	
Silica	47800	ug/L	450		1	10/11/23 08:23	10/18/23 17:05	7631-86-9	N2
Sodium	384000	ug/L	3000	145	3	10/11/23 08:23	10/18/23 17:14	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Manganese, Dissolved	368	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 13:07	7439-96-5	
Molybdenum, Dissolved	311	ug/L	10.0	1.1	1	10/12/23 08:48	10/20/23 13:07	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	10/09/23 07:37	10/10/23 11:06	7440-36-0	
Arsenic	13.9	ug/L	1.0	0.075	1	10/09/23 07:37	10/10/23 11:06	7440-38-2	
Barium	158	ug/L	1.0	0.077	1	10/09/23 07:37	10/10/23 11:06	7440-39-3	
Cobalt	ND	ug/L	1.0	0.046	1	10/09/23 07:37	10/10/23 11:06	7440-48-4	
Selenium	5.2	ug/L	1.0	0.20	1	10/09/23 07:37	10/10/23 11:06	7782-49-2	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	231	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Bicarbonate (CaCO3)	231	mg/L	10.0	10.0	1		10/09/23 20:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		10/09/23 20:45		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	3540	mg/L	40.0	40.0	1		10/12/23 13:23		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		10/20/23 14:32		H3

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ANALYTICAL RESULTS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: Dup-1		Lab ID: 50355754011		Collected: 10/06/23 08:00	Received: 10/06/23 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis								
Sulfide	ND	mg/L	0.10	0.025	1		10/11/23 13:43	18496-25-8		
Iron, Ferrous		Analytical Method: HACH 8146 Pace Analytical Services - Indianapolis								
Iron, Ferrous	ND	mg/L	0.20	0.035	1		10/18/23 10:16	15438-31-0	H3,N2	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	4.6	mg/L	0.10	0.011	1		10/07/23 09:41	14797-55-8		
Nitrogen, Nitrite	ND	mg/L	0.10	0.0040	1		10/07/23 09:41	14797-65-0		
365.1 Total Phosphorus		Analytical Method: EPA 365.1 Preparation Method: EPA 365.1 Pace Analytical Services - Indianapolis								
Phosphate as P04	2.5	mg/L	0.15	0.15	1	10/17/23 15:00	10/17/23 18:04			
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Total Organic Carbon	ND	mg/L	4.0	0.94	4		10/16/23 10:58	7440-44-0	D3	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	ND	mg/L	4.0	0.94	4		10/16/23 10:44		D3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch:	757743	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

METHOD BLANK: 3472604 Matrix: Water

Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/17/23 11:57	
Fluoride	mg/L	ND	0.10	0.017	10/17/23 11:57	
Sulfate	mg/L	ND	0.25	0.19	10/17/23 11:57	

LABORATORY CONTROL SAMPLE: 3472605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	96	80-120	
Fluoride	mg/L	1	1.0	104	80-120	
Sulfate	mg/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472606 3472607

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355754007 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	117	25	25	144	143	106	103	80-120	1	15		
Fluoride	mg/L	0.27	1	1	1.3	1.3	107	107	80-120	0	15		
Sulfate	mg/L	61.5	50	50	110	109	97	95	80-120	1	15		

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
Pace Project No.: 50358788

QC Batch: 756295 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

METHOD BLANK: 3466331 Matrix: Water
Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	79.3	10/18/23 16:40	
Boron	ug/L	ND	100	11.4	10/18/23 16:40	
Calcium	ug/L	ND	1000	56.7	10/18/23 16:40	
Iron	ug/L	ND	100	18.1	10/18/23 16:40	
Lithium	ug/L	ND	20.0	5.1	10/18/23 16:40	
Magnesium	ug/L	ND	1000	32.8	10/18/23 16:40	
Manganese	ug/L	ND	10.0	1.1	10/18/23 16:40	
Molybdenum	ug/L	ND	10.0	1.1	10/18/23 16:40	
Potassium	ug/L	ND	1000	120	10/18/23 16:40	
Silica	ug/L	ND	450		10/18/23 16:40	N2
Sodium	ug/L	ND	1000	48.2	10/18/23 16:40	

LABORATORY CONTROL SAMPLE: 3466332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10300	103	80-120	
Boron	ug/L	1000	977	98	80-120	
Calcium	ug/L	10000	10500	105	80-120	
Iron	ug/L	10000	9780	98	80-120	
Lithium	ug/L	1000	1030	103	80-120	
Magnesium	ug/L	10000	9930	99	80-120	
Manganese	ug/L	1000	996	100	80-120	
Molybdenum	ug/L	1000	1060	106	80-120	
Potassium	ug/L	10000	10400	104	80-120	
Silica	ug/L	10700	10900	102	80-120	N2
Sodium	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466333 3466334

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355754007 Result	Spike Conc.	Spike Conc.	MS Result						
Aluminum	ug/L	ND	10000	10000	10000	9930	100	99	75-125	1	20
Boron	ug/L	105	1000	1000	1110	1100	100	99	75-125	1	20
Calcium	ug/L	82500	10000	10000	91200	89300	87	69	75-125	2	20 P6
Iron	ug/L	1310	10000	10000	11000	10800	97	95	75-125	1	20
Lithium	ug/L	ND	1000	1000	1020	1020	101	101	75-125	0	20
Magnesium	ug/L	26300	10000	10000	35500	34900	92	87	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466333 3466334													
Parameter	Units	50355754007		MS	MSD	3466334		% Rec	% Rec	% Rec	Max		
		Result	Conc.	Spike	Conc.	MS	MSD					MS	MSD
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Manganese	ug/L	217	1000	1000	1000	1190	1180	98	97	75-125	1	20	
Molybdenum	ug/L	11.3	1000	1000	1000	1080	1050	106	104	75-125	2	20	
Potassium	ug/L	3490	10000	10000	10000	13700	13700	102	103	75-125	0	20	
Silica	ug/L	11400	10700	10700	10700	22400	22000	102	99	75-125	1	20	N2
Sodium	ug/L	69200	10000	10000	10000	78200	76800	89	76	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch: 756300 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

METHOD BLANK: 3466345 Matrix: Water
 Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	10.0	1.1	10/20/23 12:44	
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	10/20/23 12:44	

LABORATORY CONTROL SAMPLE: 3466346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1020	102	80-120	
Molybdenum, Dissolved	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466347 3466348

Parameter	Units	50355754007		3466348		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Manganese, Dissolved	ug/L	216	1000	1000	1210	1230	99	101	75-125	2	20
Molybdenum, Dissolved	ug/L	10.6	1000	1000	1040	1060	103	105	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch:	756258	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

METHOD BLANK: 3466175 Matrix: Water
 Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	10/10/23 09:23	
Arsenic	ug/L	ND	1.0	0.075	10/10/23 09:23	
Barium	ug/L	ND	1.0	0.077	10/10/23 09:23	
Cobalt	ug/L	ND	1.0	0.046	10/10/23 09:23	
Selenium	ug/L	ND	1.0	0.20	10/10/23 09:23	

LABORATORY CONTROL SAMPLE: 3466176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	40.4	101	80-120	
Arsenic	ug/L	40	37.8	94	80-120	
Barium	ug/L	40	37.1	93	80-120	
Cobalt	ug/L	40	40.2	100	80-120	
Selenium	ug/L	40	38.6	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466177 3466178

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50355754007 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	40.5	41.4	101	103	75-125	2	20
Arsenic	ug/L	5.0	40	40	42.1	42.9	93	95	75-125	2	20
Barium	ug/L	65.3	40	40	107	107	105	104	75-125	0	20
Cobalt	ug/L	ND	40	40	38.2	38.7	95	96	75-125	1	20
Selenium	ug/L	ND	40	40	37.2	39.1	93	98	75-125	5	20

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch: 756415 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

METHOD BLANK: 3466746 Matrix: Water

Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	10/09/23 20:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	10/09/23 20:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	10/09/23 20:45	

LABORATORY CONTROL SAMPLE: 3466747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.0	96	90-110	

SAMPLE DUPLICATE: 3466748

Parameter	Units	50355755001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	208	213	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	208	213	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3466749

Parameter	Units	50355754007 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	238	244	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	238	244	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch:	756995	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355754007, 50355754010, 50355754011		

METHOD BLANK: 3469323 Matrix: Water

Associated Lab Samples: 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/12/23 13:20	

LABORATORY CONTROL SAMPLE: 3469324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	275	92	80-120	

SAMPLE DUPLICATE: 3469325

Parameter	Units	50355756004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5630	5930	5	10	

SAMPLE DUPLICATE: 3469326

Parameter	Units	50355754007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	504	494	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch: 758614

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754006

METHOD BLANK: 3476934

Matrix: Water

Associated Lab Samples: 50355754006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/23/23 14:03	

LABORATORY CONTROL SAMPLE: 3476935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	273	91	80-120	

SAMPLE DUPLICATE: 3476936

Parameter	Units	50357044003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	948000 ug/L	1010	6	10	

SAMPLE DUPLICATE: 3476937

Parameter	Units	50356760006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	384	368	4	10	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch: 758423

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

SAMPLE DUPLICATE: 3475829

Parameter	Units	50355871004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3475830

Parameter	Units	50355754007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch:	756734	Analysis Method:	SM 4500-S2-D
QC Batch Method:	SM 4500-S2-D	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355754006, 50355754007, 50355754010, 50355754011		

METHOD BLANK: 3467943 Matrix: Water
 Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.025	10/11/23 13:43	

LABORATORY CONTROL SAMPLE: 3467944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.48	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467945 3467946

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.51	103	103	90-110	1	20	

MATRIX SPIKE SAMPLE: 3467947

Parameter	Units	50355871001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	0.5	0.52	105	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch:	757927	Analysis Method:	HACH 8146
QC Batch Method:	HACH 8146	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355754006, 50355754007, 50355754010, 50355754011		

METHOD BLANK:	3473366	Matrix:	Water
Associated Lab Samples:	50355754006, 50355754007, 50355754010, 50355754011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.20	0.035	10/18/23 10:15	H3,N2

LABORATORY CONTROL SAMPLE: 3473367						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	0.98	98	90-110	H3,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473368												3473369	
Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Iron, Ferrous	mg/L	0.28	1	1	1.3	1.4	101	108	90-110	5	20	H3,N2	

MATRIX SPIKE SAMPLE: 3473370											
Parameter	Units	50355871006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Iron, Ferrous	mg/L	ND	1	1.2	108	90-110	H3,N2				

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch:	756221	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

METHOD BLANK: 3465814 Matrix: Water
 Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.011	10/07/23 09:35	
Nitrogen, Nitrite	mg/L	ND	0.10	0.0040	10/07/23 09:35	

LABORATORY CONTROL SAMPLE: 3465815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	
Nitrogen, Nitrite	mg/L	1	1.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3465816 3465817

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	1.0	1.0	103	104	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.0	1.0	101	100	90-110	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch:	757768	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50355754006, 50355754007, 50355754010, 50355754011		

METHOD BLANK: 3472717 Matrix: Water
 Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphate as P04	mg/L	ND	0.15	0.15	10/17/23 17:54	

LABORATORY CONTROL SAMPLE: 3472718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L		1.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472719 3472720

Parameter	Units	50355754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphate as P04	mg/L	ND			1.5	1.5				0		

MATRIX SPIKE SAMPLE: 3472721

Parameter	Units	50355871005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphate as P04	mg/L	ND		1.5			

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50358788

QC Batch: 757254 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754006, 50355754010

METHOD BLANK: 3470560 Matrix: Water
 Associated Lab Samples: 50355754006, 50355754010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/14/23 06:27	

LABORATORY CONTROL SAMPLE: 3470561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470562 3470563

Parameter	Units	50355619008		3470562		3470563		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Total Organic Carbon	mg/L	3.7	10	10	13.2	13.3	94	96	80-120	1	20

MATRIX SPIKE SAMPLE: 3470564

Parameter	Units	5035557001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	3.0	10	12.4	94	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch: 757257	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Total Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355754007, 50355754011

METHOD BLANK: 3470587 Matrix: Water

Associated Lab Samples: 50355754007, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	0.24	10/14/23 00:10	

LABORATORY CONTROL SAMPLE: 3470588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470589 3470590

Parameter	Units	50355754007		3470589		3470590		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Total Organic Carbon	mg/L	1.8	10	10	10	11.2	11.4	95	96	80-120	1	20

MATRIX SPIKE SAMPLE: 3470591

Parameter	Units	50355754011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	13.3	94	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley October 2023 P1R4
 Pace Project No.: 50358788

QC Batch: 757256 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

METHOD BLANK: 3470576 Matrix: Water
 Associated Lab Samples: 50355754006, 50355754007, 50355754010, 50355754011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.24	10/13/23 18:30	

LABORATORY CONTROL SAMPLE: 3470577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470578 3470579

Parameter	Units	50355295001		3470578		3470579		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Dissolved Organic Carbon	mg/L	1.3	10	10	10.7	10.8	94	95	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470580 3470581

Parameter	Units	50355754007		3470580		3470581		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Dissolved Organic Carbon	mg/L	1.8	10	10	11.3	11.2	95	94	80-120	1	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.532 ± 0.534 (0.833) C:NA T:84%	pCi/L	10/26/23 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.250 ± 0.330 (0.704) C:79% T:82%	pCi/L	10/24/23 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.782 ± 0.864 (1.54)	pCi/L	10/27/23 17:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: MW-4D **Lab ID: 50355754007** Collected: 10/06/23 11:20 Received: 10/06/23 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.276 ± 0.424 (0.730) C:NA T:88%	pCi/L	10/26/23 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.937 ± 0.414 (0.672) C:77% T:83%	pCi/L	10/24/23 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.21 ± 0.838 (1.40)	pCi/L	10/27/23 17:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	79.59 %REC ± NA (NA) C:NA T:NA	pCi/L	10/26/23 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	72.44 %REC ± NA (NA) C:NA T:NA	pCi/L	10/24/23 12:21	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: MW-4D MSD	Lab ID: 50355754009	Collected: 10/06/23 11:20	Received: 10/06/23 17:10	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	108.22 %REC 30.49RPD ± NA (NA) C:NA T:NA	pCi/L	10/26/23 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	81.65 %REC 11.96RPD ± NA (NA) C:NA T:NA	pCi/L	10/24/23 12:20	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: MW-9S **Lab ID: 50355754010** Collected: 10/06/23 13:35 Received: 10/06/23 17:10 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.203 ± 0.398 (0.727) C:NA T:88%	pCi/L	10/26/23 13:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.196 ± 0.301 (0.650) C:81% T:79%	pCi/L	10/24/23 12:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.399 ± 0.699 (1.38)	pCi/L	10/27/23 17:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Sample: Dup-1 **Lab ID: 50355754011** Collected: 10/06/23 08:00 Received: 10/06/23 17:10 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0699 ± 0.319 (0.514) C:NA T:84%	pCi/L	10/26/23 13:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.544 ± 0.333 (0.590) C:82% T:80%	pCi/L	10/24/23 12:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.614 ± 0.652 (1.10)	pCi/L	10/27/23 17:12	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch: 621740

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:

METHOD BLANK: 3030244

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.152 ± 0.264 (0.471) C:NA T:83%	pCi/L	10/26/23 12:51	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch: 621741

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:

METHOD BLANK: 3030245

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.320 ± 0.362 (0.757) C:83% T:78%	pCi/L	10/24/23 11:17	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch:	622662	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: 50355754006, 50355754007, 50355754008, 50355754009, 50355754010, 50355754011

METHOD BLANK: 3035233 Matrix: Water

Associated Lab Samples: 50355754006, 50355754007, 50355754008, 50355754009, 50355754010, 50355754011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.690 ± 0.415 (0.777) C:78% T:82%	pCi/L	10/24/23 12:21	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

QC Batch:	622661	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: 50355754006, 50355754007, 50355754008, 50355754009, 50355754010, 50355754011

METHOD BLANK: 3035230 Matrix: Water

Associated Lab Samples: 50355754006, 50355754007, 50355754008, 50355754009, 50355754010, 50355754011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.409 ± 0.351 (0.475) C:NA T:82%	pCi/L	10/26/23 13:29	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

H3 Sample was received or analysis requested beyond the recognized method holding time.

H7 Re-extraction or re-analysis could not be performed within method holding time.

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355754006	MW-4I	EPA 9056	757743		
50355754007	MW-4D	EPA 9056	757743		
50355754010	MW-9S	EPA 9056	757743		
50355754011	Dup-1	EPA 9056	757743		
50355754006	MW-4I	EPA 3010	756295	EPA 6010	758070
50355754007	MW-4D	EPA 3010	756295	EPA 6010	758070
50355754010	MW-9S	EPA 3010	756295	EPA 6010	758070
50355754011	Dup-1	EPA 3010	756295	EPA 6010	758070
50355754006	MW-4I	EPA 3010	756300	EPA 6010	758371
50355754007	MW-4D	EPA 3010	756300	EPA 6010	758371
50355754010	MW-9S	EPA 3010	756300	EPA 6010	758371
50355754011	Dup-1	EPA 3010	756300	EPA 6010	758371
50355754006	MW-4I	EPA 200.2	756258	EPA 6020	756428
50355754007	MW-4D	EPA 200.2	756258	EPA 6020	756428
50355754010	MW-9S	EPA 200.2	756258	EPA 6020	756428
50355754011	Dup-1	EPA 200.2	756258	EPA 6020	756428
50355754006	MW-4I	EPA 903.1	622661		
50355754007	MW-4D	EPA 903.1	622661		
50355754008	MW-4D MS	EPA 903.1	622661		
50355754009	MW-4D MSD	EPA 903.1	622661		
50355754010	MW-9S	EPA 903.1	622661		
50355754011	Dup-1	EPA 903.1	622661		
50355754006	MW-4I	EPA 904.0	622662		
50355754007	MW-4D	EPA 904.0	622662		
50355754008	MW-4D MS	EPA 904.0	622662		
50355754009	MW-4D MSD	EPA 904.0	622662		
50355754010	MW-9S	EPA 904.0	622662		
50355754011	Dup-1	EPA 904.0	622662		
50355754006	MW-4I	Total Radium Calculation	625474		
50355754007	MW-4D	Total Radium Calculation	625474		
50355754010	MW-9S	Total Radium Calculation	625474		
50355754011	Dup-1	Total Radium Calculation	625474		
50355754006	MW-4I	SM 2320B	756415		
50355754007	MW-4D	SM 2320B	756415		
50355754010	MW-9S	SM 2320B	756415		
50355754011	Dup-1	SM 2320B	756415		
50355754006	MW-4I	SM 2540C	758614		
50355754007	MW-4D	SM 2540C	756995		
50355754010	MW-9S	SM 2540C	756995		
50355754011	Dup-1	SM 2540C	756995		
50355754006	MW-4I	SM 4500-H+B	758423		
50355754007	MW-4D	SM 4500-H+B	758423		
50355754010	MW-9S	SM 4500-H+B	758423		
50355754011	Dup-1	SM 4500-H+B	758423		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley October 2023 P1R4

Pace Project No.: 50358788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355754006	MW-4I	SM 4500-S2-D	756734		
50355754007	MW-4D	SM 4500-S2-D	756734		
50355754010	MW-9S	SM 4500-S2-D	756734		
50355754011	Dup-1	SM 4500-S2-D	756734		
50355754006	MW-4I	HACH 8146	757927		
50355754007	MW-4D	HACH 8146	757927		
50355754010	MW-9S	HACH 8146	757927		
50355754011	Dup-1	HACH 8146	757927		
50355754006	MW-4I	EPA 353.2	756221		
50355754007	MW-4D	EPA 353.2	756221		
50355754010	MW-9S	EPA 353.2	756221		
50355754011	Dup-1	EPA 353.2	756221		
50355754006	MW-4I	EPA 365.1	757768	EPA 365.1	757972
50355754007	MW-4D	EPA 365.1	757768	EPA 365.1	757972
50355754010	MW-9S	EPA 365.1	757768	EPA 365.1	757972
50355754011	Dup-1	EPA 365.1	757768	EPA 365.1	757972
50355754006	MW-4I	SM 5310C	757254		
50355754007	MW-4D	SM 5310C	757257		
50355754010	MW-9S	SM 5310C	757254		
50355754011	Dup-1	SM 5310C	757257		
50355754006	MW-4I	SM 5310C	757256		
50355754007	MW-4D	SM 5310C	757256		
50355754010	MW-9S	SM 5310C	757256		
50355754011	Dup-1	SM 5310C	757256		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY

The Chain-of-Custody is intended to ensure the accuracy of the sample analysis.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the standard-terms.pdf.

~~WO#: 50355754~~



50355754

accurately. -standard-terms.pdf.

Section A

Required Client Information:

Company: Atlas Indianapolis
 Address: 7988 Centerpoint Drive
 Suite 100, Indianapolis, IN 46256
 Email: mark.breting@oneatlas.com
 Phone: 317-313-8306 Fax:

Section B

Required Project Information:

Report To: Mark Breting
 Copy To: *PIBU*
 Purchase Order #:
 Project Name: Eagle Valley October 2023
 Project #: *170LF-01547*

Section C

Invoice:

Company Name: Atlas Indianapolis
 Address:
 Pace Quote:
 Pace Project Manager: will.statz@pacelabs.com
 Pace Profile #: 10498/46

Regulatory Agency
 State / Location
 IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analyses Test	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Total Metals by 6010/6020		Diss metals by 6010	TDS by 2540C	TOC by 5310	DOC by 5310	Alkalinity / pH / Ferrous Fe	NO2/NO3 by 353.2	Sulfide by 4500	Total Phos by 365.1	C. F. SO4 by 9056	Rad 226/228 + SUM to Pitt		
				DATE	TIME	DATE	TIME																								
1	MW-20I		G			10.6.23	1100		3	3	4	1																	001		
2	MW-20D						940																						002		
3	Dup-7						-																						003		
4	MW-22-I						1510																						004		
5	MW-22D						1200																						005		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NO2/NO3 has a SH time of 48 hours	<i>J Hill / Atlas</i>	10.6.23		<i>Keegan Lowhead / Atlas</i>	10.6.23		SEE 2CVR
6020 - Co, As, Se, Sb, Ba (5)	<i>Keegan Lowhead / Atlas</i>	10.6.23	0510	<i>Therik Slutske / PACE</i>	10.6.23	0510 (1710)	Y N Y
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, sila (11)							
6010 Dis - Mn, Mo (2)							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:						
DATE Signed: 10.6.23						



CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Atlas Indianapolis	Report To: Mark Breting	Attention: Accounts Payable - Paula Sedam			
Address: 7988 Centerpoint Drive	Copy To: <u>PI-RU</u>	Company Name: Atlas Indianapolis			
Suite 100, Indianapolis, IN 46256	Purchase Order #:	Address:	Regulatory Agency		
Email: mark.breting@oneatlas.com	Project Name: Eagle Valley October 2023	Pace Quote:			
Phone: 317-313-8306 Fax:	Project #: <u>170 LF 1507</u>	Pace Project Manager: will.statz@pacelabs.com	State / Location		
Requested Due Date:	Pace Profile #: 10498/46		IN		

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , . -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives										Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)					
						START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Total Metals by 6010/6020	Diss metals by 6010	TDS by 2540C	TOC by 5310	DOC by 5310	Alkalinity / pH / Ferrous Fe	NO2/NO3 by 363.2	Sulfide by 4500	Total Phos by 365.1	C, F, SO4 by 9056		Rad 226/228 + SUM to Pitt				
						DATE	TIME	DATE	TIME																											
1	MW-4I				WG			10.6.23	1110	11	3	3	4	1																						006
2	MW-4D								1120	33	9	9	12	3																						007-009
3	MW-9S								1335	11	3	3	4	1																						010
4	Dup-1								-	11	3	3	4	1																					011	
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	Keegan Lowkeat / Atlas	10.6.23	0500	Theresa Stiles / PACE	10.6.23	1710	SEE SCR	Y	N	Y
6020 - Co, As, Se, Sb, Ba (5)										
6010 - Al, B, Fe, Mn, Mo, Ca, Mg, Na, K, Li, sila (11)										
6010 Dis - Mn, Mo (2)										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Keegan Lowkeat					
SIGNATURE of SAMPLER: <i>Keegan Lowkeat</i>	DATE Signed: 10.6.23				



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 10.06.2023 1710

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H (5 coolers) 0.8/0.8
4. Cooler Temperature(s):

<u>2.4/2.4</u>	<u>0.8/0.8</u>	<u>0.8/0.8</u>	<u>1.7/1.7</u>
----------------	----------------	----------------	----------------

 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO2/NO3</u>	X		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) <u>NaOH/ZnAc (>9)</u> Any non-conformance to pH recommendations will be noted on the container count form	X		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: _____			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace Wisconsin Sulfide?			X
Containers Intact?:	X		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		X	Trip Blank Present?		X	
Extra labels on Terracore Vials? (soils only)		X	Trip Blank Custody Seals?:			X

COMMENTS: 1 sample recvd with no label or writing of any kind. used LOT # to discern it to be a BP3U and placed it w/ the only sample group that was missing 1. (MLW-4E)

Sample Container Count

** Place a RED dot on containers that are out of conformance **

Main data table with columns for COC Line Item, container codes (WG, BG, DG, VG, AG, BP, CG, Matrix), and chemical analysis results (Nitric, Sulfuric, Sodium Hydroxide, Sodium Hydroxide/ZnAc) with counts.

Container Codes

Glass container codes table listing codes (e.g., DG9H, WG9P, DG9S) and their descriptions (e.g., 40mL HCl amber voa vial, 40mL TSP amber vial).

Plastic and Miscellaneous container codes table listing codes (e.g., BP1B, BP1N, BP1S) and their descriptions (e.g., 1L NaOH plastic, 125mL unreserved plastic).

April 2024



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R3
Pace Project No.: 50369792

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 04, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R3
Pace Project No.: 50369792

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50369792001	MW-10I	Water	04/03/24 14:10	04/04/24 08:00
50369792002	MW-10D	Water	04/03/24 14:05	04/04/24 08:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50369792001	MW-10I	EPA 9056	KBB	3	PASI-I		
		EPA 6010	NWB	12	PASI-I		
		EPA 6010	NWB	1	PASI-I		
		EPA 6020	CAW	7	PASI-I		
		EPA 7470	ILP	1	PASI-I		
		EPA 903.1	CLM	1	PASI-PA		
		EPA 904.0	JJS1	1	PASI-PA		
		Total Radium Calculation	JAL	1	PASI-PA		
		SM 2320B	DAW	3	PASI-I		
		SM 2540C	SL	1	PASI-I		
		SM 4500-H+B	LHZ	1	PASI-I		
		EPA 353.2	DAW	1	PASI-I		
		SM 5310C	YAM	1	PASI-I		
		50369792002	MW-10D	EPA 9056	KBB	3	PASI-I
				EPA 6010	NWB	12	PASI-I
EPA 6010	NWB			1	PASI-I		
EPA 6020	CAW			7	PASI-I		
EPA 7470	ILP			1	PASI-I		
EPA 903.1	CLM			1	PASI-PA		
EPA 904.0	JJS1			1	PASI-PA		
Total Radium Calculation	JAL			1	PASI-PA		
SM 2320B	DAW			3	PASI-I		
SM 2540C	SL			1	PASI-I		
SM 4500-H+B	LHZ			1	PASI-I		
EPA 353.2	DAW			1	PASI-I		
SM 5310C	YAM			1	PASI-I		

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369792001	MW-10I					
EPA 9056	Chloride	214	mg/L	25.0	04/08/24 21:05	
EPA 9056	Fluoride	0.25	mg/L	0.10	04/08/24 20:29	
EPA 9056	Sulfate	551	mg/L	25.0	04/08/24 21:05	
EPA 6010	Boron	1170	ug/L	100	04/09/24 13:52	
EPA 6010	Calcium	229000	ug/L	2000	04/10/24 09:35	
EPA 6010	Iron	578	ug/L	100	04/09/24 13:52	
EPA 6010	Lithium	67.4	ug/L	20.0	04/09/24 13:52	
EPA 6010	Magnesium	53600	ug/L	1000	04/09/24 13:52	
EPA 6010	Manganese	103	ug/L	10.0	04/09/24 13:52	
EPA 6010	Molybdenum	114	ug/L	10.0	04/09/24 13:52	
EPA 6010	Potassium	11900	ug/L	1000	04/09/24 13:52	
EPA 6010	Sodium	158000	ug/L	1000	04/09/24 13:52	
EPA 6010	Molybdenum, Dissolved	112	ug/L	10.0	04/10/24 10:36	
EPA 6020	Barium	64.6	ug/L	1.0	04/08/24 14:34	
EPA 903.1	Radium-226	1.29 ± 0.536 (0.145)	pCi/L		04/17/24 16:10	
EPA 904.0	Radium-228	0.747 ± 0.403 (0.724)	pCi/L		04/15/24 15:10	
		C:NA T:91%				
		0.939 (0.869)				
Total Radium Calculation	Total Radium	2.04 ± 0.939 (0.869)	pCi/L		04/19/24 11:57	
SM 2320B	Alkalinity, Total as CaCO3	243	mg/L	10.0	04/05/24 21:39	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	243	mg/L	10.0	04/05/24 21:39	
SM 2540C	Total Dissolved Solids	1380	mg/L	20.0	04/05/24 12:09	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	04/18/24 13:10	H3
EPA 353.2	Nitrogen, Nitrate	0.53	mg/L	0.10	04/04/24 22:42	
50369792002	MW-10D					
EPA 9056	Chloride	134	mg/L	2.5	04/08/24 21:41	
EPA 9056	Fluoride	0.14	mg/L	0.10	04/08/24 21:23	
EPA 9056	Sulfate	257	mg/L	2.5	04/08/24 21:41	
EPA 6010	Boron	615	ug/L	100	04/09/24 13:54	
EPA 6010	Calcium	143000	ug/L	1000	04/09/24 13:54	
EPA 6010	Iron	328	ug/L	100	04/09/24 13:54	
EPA 6010	Lithium	56.6	ug/L	20.0	04/09/24 13:54	
EPA 6010	Magnesium	33800	ug/L	1000	04/09/24 13:54	
EPA 6010	Manganese	182	ug/L	10.0	04/09/24 13:54	
EPA 6010	Molybdenum	89.6	ug/L	10.0	04/09/24 13:54	
EPA 6010	Potassium	8580	ug/L	1000	04/09/24 13:54	
EPA 6010	Sodium	97900	ug/L	1000	04/09/24 13:54	
EPA 6010	Molybdenum, Dissolved	84.6	ug/L	10.0	04/10/24 10:38	
EPA 6020	Barium	93.0	ug/L	1.0	04/08/24 14:38	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50369792002	MW-10D					
EPA 903.1	Radium-226	0.930 ± 0.592 (0.715) C:NA T:84%	pCi/L		04/17/24 16:10	
EPA 904.0	Radium-228	0.933 ± 0.507 (0.915) C:74% T:79%	pCi/L		04/15/24 15:10	
Total Radium Calculation	Total Radium	1.86 ± 1.10 (1.63)	pCi/L		04/19/24 11:57	
SM 2320B	Alkalinity, Total as CaCO3	260	mg/L	10.0	04/05/24 21:39	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	260	mg/L	10.0	04/05/24 21:39	
SM 2540C	Total Dissolved Solids	794	mg/L	20.0	04/05/24 12:09	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	04/18/24 13:11	H3
SM 5310C	Dissolved Organic Carbon	1.7	mg/L	1.0	04/10/24 16:13	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Sample: MW-10I		Lab ID: 50369792001		Collected: 04/03/24 14:10		Received: 04/04/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	214	mg/L	25.0	6.7	100		04/08/24 21:05	16887-00-6	
Fluoride	0.25	mg/L	0.10	0.017	1		04/08/24 20:29	16984-48-8	
Sulfate	551	mg/L	25.0	19.0	100		04/08/24 21:05	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	1170	ug/L	100	11.4	1	04/06/24 07:40	04/09/24 13:52	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/06/24 07:40	04/09/24 13:52	7440-43-9	
Calcium	229000	ug/L	2000	113	2	04/06/24 07:40	04/10/24 09:35	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/06/24 07:40	04/09/24 13:52	7440-47-3	
Iron	578	ug/L	100	18.1	1	04/06/24 07:40	04/09/24 13:52	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/06/24 07:40	04/09/24 13:52	7439-92-1	
Lithium	67.4	ug/L	20.0	5.1	1	04/06/24 07:40	04/09/24 13:52	7439-93-2	
Magnesium	53600	ug/L	1000	32.8	1	04/06/24 07:40	04/09/24 13:52	7439-95-4	
Manganese	103	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:52	7439-96-5	
Molybdenum	114	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:52	7439-98-7	
Potassium	11900	ug/L	1000	120	1	04/06/24 07:40	04/09/24 13:52	7440-09-7	
Sodium	158000	ug/L	1000	48.2	1	04/06/24 07:40	04/09/24 13:52	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	112	ug/L	10.0	1.1	1	04/09/24 20:28	04/10/24 10:36	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/06/24 15:15	04/08/24 14:34	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/06/24 15:15	04/08/24 14:34	7440-38-2	
Barium	64.6	ug/L	1.0	0.077	1	04/06/24 15:15	04/08/24 14:34	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/06/24 15:15	04/08/24 18:13	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/06/24 15:15	04/08/24 14:34	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/06/24 15:15	04/08/24 14:34	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/06/24 15:15	04/08/24 14:34	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/11/24 19:31	04/12/24 09:25	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	243	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Bicarbonate (CaCO3)	243	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/05/24 21:39		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Sample: MW-10I		Lab ID: 50369792001		Collected: 04/03/24 14:10	Received: 04/04/24 08:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1380	mg/L	20.0	20.0	1		04/05/24 12:09		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.9	Std. Units	0.10	0.10	1		04/18/24 13:10		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.53	mg/L	0.10	0.013	1		04/04/24 22:42	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	4.0	1.0	4		04/11/24 10:31		D3

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Sample: MW-10D Lab ID: 50369792002 Collected: 04/03/24 14:05 Received: 04/04/24 08:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	134	mg/L	2.5	0.67	10		04/08/24 21:41	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.017	1		04/08/24 21:23	16984-48-8	
Sulfate	257	mg/L	2.5	1.9	10		04/08/24 21:41	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	615	ug/L	100	11.4	1	04/06/24 07:40	04/09/24 13:54	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/06/24 07:40	04/09/24 13:54	7440-43-9	
Calcium	143000	ug/L	1000	56.7	1	04/06/24 07:40	04/09/24 13:54	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/06/24 07:40	04/09/24 13:54	7440-47-3	
Iron	328	ug/L	100	18.1	1	04/06/24 07:40	04/09/24 13:54	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/06/24 07:40	04/09/24 13:54	7439-92-1	
Lithium	56.6	ug/L	20.0	5.1	1	04/06/24 07:40	04/09/24 13:54	7439-93-2	
Magnesium	33800	ug/L	1000	32.8	1	04/06/24 07:40	04/09/24 13:54	7439-95-4	
Manganese	182	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:54	7439-96-5	
Molybdenum	89.6	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:54	7439-98-7	
Potassium	8580	ug/L	1000	120	1	04/06/24 07:40	04/09/24 13:54	7440-09-7	
Sodium	97900	ug/L	1000	48.2	1	04/06/24 07:40	04/09/24 13:54	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	84.6	ug/L	10.0	1.1	1	04/09/24 20:28	04/10/24 10:38	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/06/24 15:15	04/08/24 14:38	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/06/24 15:15	04/08/24 14:38	7440-38-2	
Barium	93.0	ug/L	1.0	0.077	1	04/06/24 15:15	04/08/24 14:38	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/06/24 15:15	04/08/24 18:17	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/06/24 15:15	04/08/24 14:38	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/06/24 15:15	04/08/24 14:38	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/06/24 15:15	04/08/24 14:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/11/24 19:31	04/12/24 09:27	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	260	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Bicarbonate (CaCO3)	260	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/05/24 21:39		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Sample: MW-10D		Lab ID: 50369792002		Collected: 04/03/24 14:05	Received: 04/04/24 08:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	794	mg/L	20.0	20.0	1		04/05/24 12:09		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		04/18/24 13:11		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/04/24 22:40	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.7	mg/L	1.0	0.25	1		04/10/24 16:13		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch:	783429	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

METHOD BLANK: 3584458 Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/08/24 10:36	
Fluoride	mg/L	ND	0.10	0.017	04/08/24 10:36	
Sulfate	mg/L	ND	0.25	0.19	04/08/24 10:36	

LABORATORY CONTROL SAMPLE: 3584459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	1.0	101	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3584460 3584461

Parameter	Units	50369717001		3584461		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	4.5	2.5	2.5	6.9	6.9	94	95	80-120	0	15		
Fluoride	mg/L	0.30	1	1	1.3	1.4	104	105	80-120	1	15		
Sulfate	mg/L	108	50	50	154	154	93	92	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch: 784177	Analysis Method: EPA 7470
QC Batch Method: EPA 7470	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

METHOD BLANK: 3587680 Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/12/24 08:24	

LABORATORY CONTROL SAMPLE: 3587681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587682 3587683

Parameter	Units	50369324026		3587683		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	ug/L	ND	5	5	4.7	4.8	94	96	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch:	783568	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

METHOD BLANK: 3585119 Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	11.4	04/09/24 12:52	
Cadmium	ug/L	ND	2.0	0.74	04/09/24 12:52	
Calcium	ug/L	ND	1000	56.7	04/09/24 12:52	
Chromium	ug/L	ND	10.0	1.4	04/09/24 12:52	
Iron	ug/L	ND	100	18.1	04/09/24 12:52	
Lead	ug/L	ND	10.0	4.0	04/09/24 12:52	
Lithium	ug/L	ND	20.0	5.1	04/09/24 12:52	
Magnesium	ug/L	ND	1000	32.8	04/09/24 12:52	
Manganese	ug/L	ND	10.0	1.1	04/09/24 12:52	
Molybdenum	ug/L	ND	10.0	1.1	04/09/24 12:52	
Potassium	ug/L	ND	1000	120	04/09/24 12:52	
Sodium	ug/L	ND	1000	48.2	04/09/24 12:52	

LABORATORY CONTROL SAMPLE: 3585120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	965	96	80-120	
Cadmium	ug/L	1000	976	98	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Iron	ug/L	10000	9980	100	80-120	
Lead	ug/L	1000	954	95	80-120	
Lithium	ug/L	1000	1020	102	80-120	
Magnesium	ug/L	10000	9860	99	80-120	
Manganese	ug/L	1000	992	99	80-120	
Molybdenum	ug/L	1000	1010	101	80-120	
Potassium	ug/L	10000	9960	100	80-120	
Sodium	ug/L	10000	9900	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3585121 3585122

Parameter	Units	3585121		3585122		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	ug/L	<100	1000	1020	1000	100	99	75-125	2	20	
Cadmium	ug/L	<2.0	1000	998	980	100	98	75-125	2	20	
Calcium	ug/L	60400	10000	70500	69800	101	94	75-125	1	20	
Chromium	ug/L	<10.0	1000	1020	1000	102	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3585121 3585122											
Parameter	Units	50369661002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Iron	ug/L	<100	10000	10000	10100	9900	101	99	75-125	2	20
Lead	ug/L	<10.0	1000	1000	941	926	94	92	75-125	2	20
Lithium	ug/L	<20.0	1000	1000	1010	998	101	100	75-125	2	20
Magnesium	ug/L	17700	10000	10000	27700	27200	100	95	75-125	2	20
Manganese	ug/L	<10.0	1000	1000	1000	977	100	98	75-125	2	20
Molybdenum	ug/L	<10.0	1000	1000	1040	1020	104	102	75-125	2	20
Potassium	ug/L	119000	10000	10000	129000	127000	100	86	75-125	1	20 E
Sodium	ug/L	57300	10000	10000	66800	66300	95	90	75-125	1	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch:	783849	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

METHOD BLANK: 3586612 Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	04/10/24 10:17	

LABORATORY CONTROL SAMPLE: 3586613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	952	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586614 3586615

Parameter	Units	3586614		3586615		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Molybdenum, Dissolved	ug/L	<10.0	1000	1000	1020	989	102	99	75-125	3	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3
Pace Project No.: 50369792

QC Batch: 783739 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

METHOD BLANK: 3585931 Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	04/08/24 13:59	
Arsenic	ug/L	ND	1.0	0.075	04/08/24 13:59	
Barium	ug/L	ND	1.0	0.077	04/08/24 13:59	
Beryllium	ug/L	ND	0.20	0.035	04/08/24 13:59	
Cobalt	ug/L	ND	1.0	0.046	04/08/24 13:59	
Selenium	ug/L	ND	1.0	0.20	04/08/24 13:59	
Thallium	ug/L	ND	1.0	0.040	04/08/24 13:59	

LABORATORY CONTROL SAMPLE: 3585932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.6	104	80-120	
Arsenic	ug/L	40	39.3	98	80-120	
Barium	ug/L	40	39.8	100	80-120	
Beryllium	ug/L	40	42.2	106	80-120	
Cobalt	ug/L	40	42.2	106	80-120	
Selenium	ug/L	40	39.8	99	80-120	
Thallium	ug/L	40	41.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3585933 3585934

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50369793001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	42.1	41.9	105	104	75-125	0	20
Arsenic	ug/L	ND	40	40	40.1	39.1	99	96	75-125	2	20
Barium	ug/L	43.1	40	40	86.2	85.5	108	106	75-125	1	20
Beryllium	ug/L	ND	40	40	45.6	44.4	114	111	75-125	3	20
Cobalt	ug/L	2.8	40	40	40.8	40.0	95	93	75-125	2	20
Selenium	ug/L	ND	40	40	40.4	39.4	101	98	75-125	2	20
Thallium	ug/L	ND	40	40	43.3	42.9	108	107	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch: 783756

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

METHOD BLANK: 3586052

Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/05/24 21:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/05/24 21:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/05/24 21:39	

LABORATORY CONTROL SAMPLE: 3586053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.3	99	90-110	

SAMPLE DUPLICATE: 3586054

Parameter	Units	50369771001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	91.6	94.8	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	ND		20	
Alkalinity,Carbonate (CaCO3)	mg/L	56.0	60.0	7	20	

SAMPLE DUPLICATE: 3586055

Parameter	Units	50369792001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	243	247	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	243	247	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch: 783614

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

METHOD BLANK: 3585373

Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/05/24 11:47	

LABORATORY CONTROL SAMPLE: 3585374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	308	103	80-120	

SAMPLE DUPLICATE: 3585375

Parameter	Units	50369908014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	201	195	3	10	

SAMPLE DUPLICATE: 3585376

Parameter	Units	50369757010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	243	247	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch: 785160

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

SAMPLE DUPLICATE: 3591950

Parameter	Units	50369768004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.0	9.0	0	2	H3

SAMPLE DUPLICATE: 3592671

Parameter	Units	50369840003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.6	6.6	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch: 783547

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

METHOD BLANK: 3584965

Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/04/24 21:56	

LABORATORY CONTROL SAMPLE: 3584966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 3584967

Parameter	Units	50369839001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.039J	1	1.0	101	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch: 784250

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369792001, 50369792002

METHOD BLANK: 3587866

Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/10/24 12:44	

LABORATORY CONTROL SAMPLE: 3587867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587868 3587869

Parameter	Units	50369757010		50369793001		50369792001		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Dissolved Organic Carbon	mg/L	10.1	40	40	50.2	50.8	100	102	80-120	1	20

MATRIX SPIKE SAMPLE: 3587870

Parameter	Units	50369793001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	10	12.2	90	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-101 Lab ID: 50369792001 Collected: 04/03/24 14:10 Received: 04/04/24 08:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.29 ± 0.536 (0.145) C:NA T:91%	pCi/L	04/17/24 16:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.747 ± 0.403 (0.724) C:80% T:90%	pCi/L	04/15/24 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.04 ± 0.939 (0.869)	pCi/L	04/19/24 11:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Sample: MW-10D **Lab ID: 50369792002** Collected: 04/03/24 14:05 Received: 04/04/24 08:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.930 ± 0.592 (0.715) C:NA T:84%	pCi/L	04/17/24 16:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.933 ± 0.507 (0.915) C:74% T:79%	pCi/L	04/15/24 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.86 ± 1.10 (1.63)	pCi/L	04/19/24 11:57	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch: 660305

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: 50369792001, 50369792002

METHOD BLANK: 3216132

Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.297 ± 0.394 (0.841) C:84% T:74%	pCi/L	04/15/24 15:10	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

QC Batch: 660304

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: 50369792001, 50369792002

METHOD BLANK: 3216131

Matrix: Water

Associated Lab Samples: 50369792001, 50369792002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.314 ± 0.235 (0.121) C:NA T:86%	pCi/L	04/17/24 16:23	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R3

Pace Project No.: 50369792

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369792001	MW-10I	EPA 9056	783429		
50369792002	MW-10D	EPA 9056	783429		
50369792001	MW-10I	EPA 3010	783568	EPA 6010	784100
50369792002	MW-10D	EPA 3010	783568	EPA 6010	784100
50369792001	MW-10I	EPA 3010	783849	EPA 6010	784219
50369792002	MW-10D	EPA 3010	783849	EPA 6010	784219
50369792001	MW-10I	EPA 200.2	783739	EPA 6020	783858
50369792002	MW-10D	EPA 200.2	783739	EPA 6020	783858
50369792001	MW-10I	EPA 7470	784177	EPA 7470	784609
50369792002	MW-10D	EPA 7470	784177	EPA 7470	784609
50369792001	MW-10I	EPA 903.1	660304		
50369792002	MW-10D	EPA 903.1	660304		
50369792001	MW-10I	EPA 904.0	660305		
50369792002	MW-10D	EPA 904.0	660305		
50369792001	MW-10I	Total Radium Calculation	663306		
50369792002	MW-10D	Total Radium Calculation	663306		
50369792001	MW-10I	SM 2320B	783756		
50369792002	MW-10D	SM 2320B	783756		
50369792001	MW-10I	SM 2540C	783614		
50369792002	MW-10D	SM 2540C	783614		
50369792001	MW-10I	SM 4500-H+B	785160		
50369792002	MW-10D	SM 4500-H+B	785160		
50369792001	MW-10I	EPA 353.2	783547		
50369792002	MW-10D	EPA 353.2	783547		
50369792001	MW-10I	SM 5310C	784250		
50369792002	MW-10D	SM 5310C	784250		

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CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://www.pacelabs.com>

WO#: 50369792



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Regulatory Agency	
Company: Atlas Indianapolis		Report To: Mark Breting		Attention: Accounts Payable - Paula Sedam			
Address: 7988 Centerpoint Drive Suite 100, Indianapolis, IN 46256		Copy To:		Company Name: Atlas Indianapolis			
Email: mark.breting@oneatlas.com		Purchase Order #:		Address:			
Phone: 317-313-8306 Fax:		Project Name: Eagle Valley April 2024		Pace Quote:			
Requested Due Date:		Project #: 170AES0001/PIR3		Pace Project Manager: will.statz@pacelabs.com		State / Location	
				Pace Profile #: 10498/56		IN	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)								
				START				END		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test		Tot Metals 6010/6020/7470		Diss metals by 6010		TDS by 2540C		DOC by 5310			Alkalinity / pH / Ferrous Fe		Nitrate by 353.2		C, F, SO4 by 9056		Rad 226/228 + SUM to Pitt	
				DATE	TIME			DATE	TIME									Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N									
1	mw- 10I			WT G	4.3.24	1410	8	3	1	4						↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓										
2	mw- 10D			↓ ↓	↓	1405	↓	↓	↓	↓																										
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	<i>J Hill / Atks</i>			<i>Will Stutz</i> PACE	4/4/24	800	3.1	Y	Y	Y
6020 - Be, Co, As, Se, Sb, Ba, Tl (7)										
6010 - B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li (12), 7470										
6010 Dis - Mo										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Contact (Y/N)
PRINT Name of SAMPLER:	<i>J Hill</i>					
SIGNATURE of SAMPLER:	<i>J Hill</i>	DATE Signed: 4.3.24				



SAMPLE CONDITION UPON RECEIPT FORM

Time and Initials of person examining contents: TW 4/4/24 825

Carrier: FED EX UPS CLIENT PACE NOW/JETT OTHER

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No (leave blank if no seals were present)

Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**

Cooler Temperature(s): 3.2/3.1

Label/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, R, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Hold Time Analysis (48 hours or less)? Anions: <u>Nitrate</u>	<input checked="" type="checkbox"/>		Circle: <u>2</u> <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
035A TC placed in Freezer or Short Holds To Lab			Time: <u>0910</u>	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Residual Chlorine Check (SVOC 625 Pest/PCB 608)						<input checked="" type="checkbox"/>
Residual Chlorine Check (Total/Amenable/Free Cyanide)						<input checked="" type="checkbox"/>
Headspace Wisconsin Sulfide?						<input checked="" type="checkbox"/>
Headspace in VOA Vials (>6mm): See Containter Count form for details				<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sept</u>
Trip Blank Present?						<input checked="" type="checkbox"/>
Trip Blank Custody Seals?:						<input checked="" type="checkbox"/>

REMARKS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	R	MeOH (only)		VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS									PLASTIC							OTHER			Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >8				
					SBS	DI					AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit						Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ZnAc Black
1																												WT	✓	✓								
2																												WT	✓	✓								
3																																						
4																																						
5																																						
6																																						
7																																						
8																																						
9																																						
10																																						
11																																						
12																																						

Container Codes

Glass	
DG9H	40mL HCl amber voa vial
DG9P	40mL TSP amber vial
DG9S	40mL H2SO4 amber vial
DG9T	40mL Na Thio amber vial
DG9U	40mL unpreserved amber vial
VG9H	40mL HCl clear vial
VG9T	40mL Na Thio. clear vial
VG9U	40mL unpreserved clear vial
I	40mL w/hexane wipe vial
WGKU	8oz unpreserved clear jar
WGFU	4oz clear soil jar
JGFU	4oz unpreserved amber wide
CG3H	250mL clear glass HCl
CG3F	250mL clear glass HCl, Field Filter
BG1H	1L HCl clear glass
BG1S	1L H2SO4 clear glass
BG1T	glass
BG1U	1L unpreserved glass
CG3U	250mL Unpres Clear Glass
AG0U	100mL unpres amber glass
AG1H	1L HCl amber glass
AG1S	1L H2SO4 amber glass
AG1T	1L Na Thiosulfate amber glass
AG1U	1liter unpres amber glass
AG2N	500mL HNO3 amber glass
AG2S	500mL H2SO4 amber glass
AG2U	500mL unpres amber glass
AG3S	250mL H2SO4 amber glass
AG3SF	250mL H2SO4 amb glass -field filtered
AG3U	250mL unpres amber glass
AG3B	250mL NaOH amber glass

Plastic	
BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP3R	250mL Unpres. FF SO4/OH buffer
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



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50369793

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 04, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50369793

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50369793

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50369793001	MW-26S	Water	04/03/24 11:40	04/04/24 08:00
50369793002	MW-26I	Water	04/03/24 10:35	04/04/24 08:00
50369793003	MW-26D	Water	04/03/24 12:21	04/04/24 08:00
50369793004	DUP-1	Water	04/03/24 08:00	04/04/24 08:00

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369793001	MW-26S	EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50369793002	MW-26I	EPA 9056	KBB
EPA 6010	NWB			12	PASI-I
EPA 6010	NWB			1	PASI-I
EPA 6020	CAW			7	PASI-I
EPA 7470	ILP			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50369793003	MW-26D			EPA 9056	KBB
		EPA 6010	NWB	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369793004	DUP-1	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369793001	MW-26S					
EPA 9056	Chloride	340	mg/L	25.0	04/08/24 22:52	
EPA 9056	Fluoride	0.27	mg/L	0.10	04/08/24 22:17	
EPA 9056	Sulfate	1100	mg/L	25.0	04/08/24 22:52	
EPA 6010	Boron	3990	ug/L	100	04/09/24 13:55	
EPA 6010	Calcium	352000	ug/L	2000	04/10/24 09:36	
EPA 6010	Lithium	118	ug/L	20.0	04/09/24 13:55	
EPA 6010	Magnesium	83600	ug/L	1000	04/09/24 13:55	
EPA 6010	Manganese	2120	ug/L	10.0	04/09/24 13:55	
EPA 6010	Molybdenum	187	ug/L	10.0	04/09/24 13:55	
EPA 6010	Potassium	19500	ug/L	1000	04/09/24 13:55	
EPA 6010	Sodium	281000	ug/L	2000	04/10/24 09:36	
EPA 6010	Molybdenum, Dissolved	183	ug/L	10.0	04/10/24 10:39	
EPA 6020	Barium	43.1	ug/L	1.0	04/08/24 17:11	
EPA 6020	Cobalt	2.8	ug/L	1.0	04/08/24 17:11	
EPA 903.1	Radium-226	0.552 ± 0.687 (1.14) C:NA T:93%	pCi/L		04/17/24 14:17	
EPA 904.0	Radium-228	0.638 ± 0.359 (0.643) C:80% T:84%	pCi/L		04/16/24 12:12	
Total Radium Calculation	Total Radium	1.19 ± 1.05 (1.78)	pCi/L		04/19/24 12:55	
SM 2320B	Alkalinity, Total as CaCO3	233	mg/L	10.0	04/05/24 21:39	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	233	mg/L	10.0	04/05/24 21:39	
SM 2540C	Total Dissolved Solids	2400	mg/L	40.0	04/05/24 12:09	
SM 4500-H+B	pH at 25 Degrees C	6.5	Std. Units	0.10	04/18/24 13:12	H3
50369793002	MW-26I					
EPA 9056	Chloride	148	mg/L	2.5	04/09/24 00:04	
EPA 9056	Fluoride	0.37	mg/L	0.10	04/08/24 23:46	
EPA 9056	Sulfate	119	mg/L	2.5	04/09/24 00:04	
EPA 6010	Calcium	88200	ug/L	1000	04/09/24 13:57	
EPA 6010	Magnesium	26300	ug/L	1000	04/09/24 13:57	
EPA 6010	Manganese	25.0	ug/L	10.0	04/09/24 13:57	
EPA 6010	Molybdenum	36.2	ug/L	10.0	04/09/24 13:57	
EPA 6010	Potassium	5680	ug/L	1000	04/09/24 13:57	
EPA 6010	Sodium	94500	ug/L	1000	04/09/24 13:57	
EPA 6010	Molybdenum, Dissolved	34.8	ug/L	10.0	04/10/24 10:41	
EPA 6020	Barium	87.3	ug/L	1.0	04/08/24 17:38	
EPA 903.1	Radium-226	0.225 ± 0.494 (0.893) C:NA T:96%	pCi/L		04/17/24 14:29	
EPA 904.0	Radium-228	0.287 ± 0.363 (0.773) C:78% T:87%	pCi/L		04/16/24 12:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369793002	MW-26I					
Total Radium Calculation	Total Radium	0.512 ± 0.857 (1.67)	pCi/L		04/19/24 12:55	
SM 2320B	Alkalinity, Total as CaCO3	205	mg/L	10.0	04/05/24 21:39	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	205	mg/L	10.0	04/05/24 21:39	
SM 2540C	Total Dissolved Solids	573	mg/L	10.0	04/08/24 09:36	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	04/18/24 13:13	H3
EPA 353.2	Nitrogen, Nitrate	1.1	mg/L	0.10	04/04/24 23:32	
SM 5310C	Dissolved Organic Carbon	2.0	mg/L	1.0	04/10/24 16:52	
50369793003	MW-26D					
EPA 9056	Chloride	81.9	mg/L	2.5	04/09/24 00:58	
EPA 9056	Sulfate	72.3	mg/L	2.5	04/09/24 00:58	
EPA 6010	Boron	103	ug/L	100	04/09/24 13:59	
EPA 6010	Calcium	135000	ug/L	1000	04/09/24 13:59	
EPA 6010	Magnesium	35000	ug/L	1000	04/09/24 13:59	
EPA 6010	Manganese	69.0	ug/L	10.0	04/09/24 13:59	
EPA 6010	Molybdenum	23.0	ug/L	10.0	04/09/24 13:59	
EPA 6010	Potassium	3290	ug/L	1000	04/09/24 13:59	
EPA 6010	Sodium	27500	ug/L	1000	04/09/24 13:59	
EPA 6010	Molybdenum, Dissolved	20.4	ug/L	10.0	04/10/24 10:46	
EPA 6020	Barium	127	ug/L	1.0	04/08/24 17:42	
EPA 903.1	Radium-226	0.375 ± 0.492 (0.820)	pCi/L		04/17/24 14:29	
EPA 904.0	Radium-228	0.832 ± 0.433 (0.772) C:84% T:78%	pCi/L		04/16/24 12:13	
Total Radium Calculation	Total Radium	1.21 ± 0.925 (1.59)	pCi/L		04/19/24 12:55	
SM 2320B	Alkalinity, Total as CaCO3	341	mg/L	10.0	04/05/24 21:39	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	341	mg/L	10.0	04/05/24 21:39	
SM 2540C	Total Dissolved Solids	543	mg/L	10.0	04/08/24 09:37	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/18/24 13:14	H3
SM 5310C	Dissolved Organic Carbon	1.9	mg/L	1.0	04/10/24 17:03	
50369793004	DUP-1					
EPA 9056	Chloride	81.7	mg/L	2.5	04/09/24 01:34	
EPA 9056	Sulfate	72.0	mg/L	2.5	04/09/24 01:34	
EPA 6010	Boron	104	ug/L	100	04/09/24 14:00	
EPA 6010	Calcium	136000	ug/L	1000	04/09/24 14:00	
EPA 6010	Magnesium	35200	ug/L	1000	04/09/24 14:00	
EPA 6010	Manganese	68.8	ug/L	10.0	04/09/24 14:00	
EPA 6010	Molybdenum	22.4	ug/L	10.0	04/09/24 14:00	
EPA 6010	Potassium	3340	ug/L	1000	04/09/24 14:00	
EPA 6010	Sodium	27800	ug/L	1000	04/09/24 14:00	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50369793004	DUP-1					
EPA 6010	Molybdenum, Dissolved	20.0	ug/L	10.0	04/10/24 10:47	
EPA 6020	Barium	125	ug/L	1.0	04/08/24 17:45	
EPA 903.1	Radium-226	0.216 ± 0.374 (0.668)	pCi/L		04/17/24 14:29	
EPA 904.0	Radium-228	C:NA T:85% 0.884 ± 0.397 (0.657)	pCi/L		04/16/24 12:13	
Total Radium Calculation	Total Radium	C:85% T:83% 1.10 ± 0.771 (1.33)	pCi/L		04/19/24 12:55	
SM 2320B	Alkalinity, Total as CaCO3	342	mg/L	10.0	04/05/24 21:39	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	342	mg/L	10.0	04/05/24 21:39	
SM 2540C	Total Dissolved Solids	568	mg/L	10.0	04/08/24 09:37	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/18/24 13:16	H3
EPA 353.2	Nitrogen, Nitrate	0.21	mg/L	0.10	04/04/24 21:06	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	04/10/24 17:41	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: MW-26S		Lab ID: 50369793001		Collected: 04/03/24 11:40		Received: 04/04/24 08:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	340	mg/L	25.0	6.7	100		04/08/24 22:52	16887-00-6	
Fluoride	0.27	mg/L	0.10	0.017	1		04/08/24 22:17	16984-48-8	
Sulfate	1100	mg/L	25.0	19.0	100		04/08/24 22:52	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	3990	ug/L	100	11.4	1	04/06/24 07:40	04/09/24 13:55	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/06/24 07:40	04/09/24 13:55	7440-43-9	
Calcium	352000	ug/L	2000	113	2	04/06/24 07:40	04/10/24 09:36	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/06/24 07:40	04/09/24 13:55	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/06/24 07:40	04/09/24 13:55	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/06/24 07:40	04/09/24 13:55	7439-92-1	
Lithium	118	ug/L	20.0	5.1	1	04/06/24 07:40	04/09/24 13:55	7439-93-2	
Magnesium	83600	ug/L	1000	32.8	1	04/06/24 07:40	04/09/24 13:55	7439-95-4	
Manganese	2120	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:55	7439-96-5	
Molybdenum	187	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:55	7439-98-7	
Potassium	19500	ug/L	1000	120	1	04/06/24 07:40	04/09/24 13:55	7440-09-7	
Sodium	281000	ug/L	2000	96.4	2	04/06/24 07:40	04/10/24 09:36	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	183	ug/L	10.0	1.1	1	04/09/24 20:28	04/10/24 10:39	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/06/24 15:15	04/08/24 17:11	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/06/24 15:15	04/08/24 17:11	7440-38-2	
Barium	43.1	ug/L	1.0	0.077	1	04/06/24 15:15	04/08/24 17:11	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/06/24 15:15	04/08/24 17:11	7440-41-7	
Cobalt	2.8	ug/L	1.0	0.046	1	04/06/24 15:15	04/08/24 17:11	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/06/24 15:15	04/08/24 17:11	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/06/24 15:15	04/08/24 17:11	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/11/24 19:31	04/12/24 09:35	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	233	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Bicarbonate (CaCO3)	233	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/05/24 21:39		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: MW-26S Lab ID: 50369793001 Collected: 04/03/24 11:40 Received: 04/04/24 08:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2400	mg/L	40.0	40.0	1		04/05/24 12:09		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.5	Std. Units	0.10	0.10	1		04/18/24 13:12		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/04/24 21:48	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	4.0	1.0	4		04/11/24 10:41		D3

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369793

Sample: MW-26I		Lab ID: 50369793002		Collected: 04/03/24 10:35	Received: 04/04/24 08:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	148	mg/L	2.5	0.67	10		04/09/24 00:04	16887-00-6	
Fluoride	0.37	mg/L	0.10	0.017	1		04/08/24 23:46	16984-48-8	
Sulfate	119	mg/L	2.5	1.9	10		04/09/24 00:04	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	11.4	1	04/06/24 07:40	04/09/24 13:57	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/06/24 07:40	04/09/24 13:57	7440-43-9	
Calcium	88200	ug/L	1000	56.7	1	04/06/24 07:40	04/09/24 13:57	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/06/24 07:40	04/09/24 13:57	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/06/24 07:40	04/09/24 13:57	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/06/24 07:40	04/09/24 13:57	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/06/24 07:40	04/09/24 13:57	7439-93-2	
Magnesium	26300	ug/L	1000	32.8	1	04/06/24 07:40	04/09/24 13:57	7439-95-4	
Manganese	25.0	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:57	7439-96-5	
Molybdenum	36.2	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:57	7439-98-7	
Potassium	5680	ug/L	1000	120	1	04/06/24 07:40	04/09/24 13:57	7440-09-7	
Sodium	94500	ug/L	1000	48.2	1	04/06/24 07:40	04/09/24 13:57	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	34.8	ug/L	10.0	1.1	1	04/09/24 20:28	04/10/24 10:41	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/06/24 15:15	04/08/24 17:38	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/06/24 15:15	04/08/24 17:38	7440-38-2	
Barium	87.3	ug/L	1.0	0.077	1	04/06/24 15:15	04/08/24 17:38	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/06/24 15:15	04/08/24 17:38	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/06/24 15:15	04/08/24 17:38	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/06/24 15:15	04/08/24 17:38	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/06/24 15:15	04/08/24 17:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/11/24 19:31	04/12/24 09:37	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	205	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Bicarbonate (CaCO3)	205	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/05/24 21:39		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: MW-26I		Lab ID: 50369793002		Collected: 04/03/24 10:35	Received: 04/04/24 08:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	573	mg/L	10.0	10.0	1		04/08/24 09:36		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.0	Std. Units	0.10	0.10	1		04/18/24 13:13		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.1	mg/L	0.10	0.013	1		04/04/24 23:32	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.0	mg/L	1.0	0.25	1		04/10/24 16:52		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: MW-26D		Lab ID: 50369793003		Collected: 04/03/24 12:21	Received: 04/04/24 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Chloride	81.9	mg/L	2.5	0.67	10		04/09/24 00:58	16887-00-6		
Fluoride	ND	mg/L	0.10	0.017	1		04/09/24 00:40	16984-48-8		
Sulfate	72.3	mg/L	2.5	1.9	10		04/09/24 00:58	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis								
Boron	103	ug/L	100	11.4	1	04/06/24 07:40	04/09/24 13:59	7440-42-8		
Cadmium	ND	ug/L	2.0	0.74	1	04/06/24 07:40	04/09/24 13:59	7440-43-9		
Calcium	135000	ug/L	1000	56.7	1	04/06/24 07:40	04/09/24 13:59	7440-70-2		
Chromium	ND	ug/L	10.0	1.4	1	04/06/24 07:40	04/09/24 13:59	7440-47-3		
Iron	ND	ug/L	100	18.1	1	04/06/24 07:40	04/09/24 13:59	7439-89-6		
Lead	ND	ug/L	10.0	4.0	1	04/06/24 07:40	04/09/24 13:59	7439-92-1		
Lithium	ND	ug/L	20.0	5.1	1	04/06/24 07:40	04/09/24 13:59	7439-93-2		
Magnesium	35000	ug/L	1000	32.8	1	04/06/24 07:40	04/09/24 13:59	7439-95-4		
Manganese	69.0	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:59	7439-96-5		
Molybdenum	23.0	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 13:59	7439-98-7		
Potassium	3290	ug/L	1000	120	1	04/06/24 07:40	04/09/24 13:59	7440-09-7		
Sodium	27500	ug/L	1000	48.2	1	04/06/24 07:40	04/09/24 13:59	7440-23-5		
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis								
Molybdenum, Dissolved	20.4	ug/L	10.0	1.1	1	04/09/24 20:28	04/10/24 10:46	7439-98-7		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	0.49	1	04/06/24 15:15	04/08/24 17:42	7440-36-0		
Arsenic	ND	ug/L	1.0	0.075	1	04/06/24 15:15	04/08/24 17:42	7440-38-2		
Barium	127	ug/L	1.0	0.077	1	04/06/24 15:15	04/08/24 17:42	7440-39-3		
Beryllium	ND	ug/L	0.20	0.035	1	04/06/24 15:15	04/08/24 17:42	7440-41-7		
Cobalt	ND	ug/L	1.0	0.046	1	04/06/24 15:15	04/08/24 17:42	7440-48-4		
Selenium	ND	ug/L	1.0	0.20	1	04/06/24 15:15	04/08/24 17:42	7782-49-2		
Thallium	ND	ug/L	1.0	0.040	1	04/06/24 15:15	04/08/24 17:42	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	0.20	0.12	1	04/11/24 19:31	04/12/24 09:40	7439-97-6		
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	341	mg/L	10.0	10.0	1		04/05/24 21:39			
Alkalinity,Bicarbonate (CaCO3)	341	mg/L	10.0	10.0	1		04/05/24 21:39			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/05/24 21:39			

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: MW-26D Lab ID: 50369793003 Collected: 04/03/24 12:21 Received: 04/04/24 08:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	543	mg/L	10.0	10.0	1		04/08/24 09:37		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		04/18/24 13:14		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/04/24 22:01	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.9	mg/L	1.0	0.25	1		04/10/24 17:03		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: DUP-1 Lab ID: 50369793004 Collected: 04/03/24 08:00 Received: 04/04/24 08:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	81.7	mg/L	2.5	0.67	10		04/09/24 01:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/09/24 01:16	16984-48-8	
Sulfate	72.0	mg/L	2.5	1.9	10		04/09/24 01:34	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	104	ug/L	100	11.4	1	04/06/24 07:40	04/09/24 14:00	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/06/24 07:40	04/09/24 14:00	7440-43-9	
Calcium	136000	ug/L	1000	56.7	1	04/06/24 07:40	04/09/24 14:00	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/06/24 07:40	04/09/24 14:00	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/06/24 07:40	04/09/24 14:00	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/06/24 07:40	04/09/24 14:00	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/06/24 07:40	04/09/24 14:00	7439-93-2	
Magnesium	35200	ug/L	1000	32.8	1	04/06/24 07:40	04/09/24 14:00	7439-95-4	
Manganese	68.8	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 14:00	7439-96-5	
Molybdenum	22.4	ug/L	10.0	1.1	1	04/06/24 07:40	04/09/24 14:00	7439-98-7	
Potassium	3340	ug/L	1000	120	1	04/06/24 07:40	04/09/24 14:00	7440-09-7	
Sodium	27800	ug/L	1000	48.2	1	04/06/24 07:40	04/09/24 14:00	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	20.0	ug/L	10.0	1.1	1	04/09/24 20:28	04/10/24 10:47	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/06/24 15:15	04/08/24 17:45	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/06/24 15:15	04/08/24 17:45	7440-38-2	
Barium	125	ug/L	1.0	0.077	1	04/06/24 15:15	04/08/24 17:45	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/06/24 15:15	04/08/24 17:45	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/06/24 15:15	04/08/24 17:45	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/06/24 15:15	04/08/24 17:45	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/06/24 15:15	04/08/24 17:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/11/24 19:31	04/12/24 09:42	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	342	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Bicarbonate (CaCO3)	342	mg/L	10.0	10.0	1		04/05/24 21:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/05/24 21:39		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: DUP-1		Lab ID: 50369793004		Collected: 04/03/24 08:00	Received: 04/04/24 08:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	568	mg/L	10.0	10.0	1		04/08/24 09:37		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/18/24 13:16		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.21	mg/L	0.10	0.013	1		04/04/24 21:06	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.4	mg/L	1.0	0.25	1		04/10/24 17:41		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch:	783429	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

METHOD BLANK: 3584458 Matrix: Water
 Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/08/24 10:36	
Fluoride	mg/L	ND	0.10	0.017	04/08/24 10:36	
Sulfate	mg/L	ND	0.25	0.19	04/08/24 10:36	

LABORATORY CONTROL SAMPLE: 3584459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	1.0	101	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3584460 3584461

Parameter	Units	50369717001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5	2.5	2.5	6.9	6.9	94	95	80-120	0	15	
Fluoride	mg/L	0.30	1	1	1.3	1.4	104	105	80-120	1	15	
Sulfate	mg/L	108	50	50	154	154	93	92	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.

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch:	784385	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

METHOD BLANK: 3588440 Matrix: Water
 Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/12/24 09:30	

LABORATORY CONTROL SAMPLE: 3588441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588442 3588443

Parameter	Units	50369962002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	5.1	96	101	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch:	783568	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

METHOD BLANK: 3585119 Matrix: Water

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	11.4	04/09/24 12:52	
Cadmium	ug/L	ND	2.0	0.74	04/09/24 12:52	
Calcium	ug/L	ND	1000	56.7	04/09/24 12:52	
Chromium	ug/L	ND	10.0	1.4	04/09/24 12:52	
Iron	ug/L	ND	100	18.1	04/09/24 12:52	
Lead	ug/L	ND	10.0	4.0	04/09/24 12:52	
Lithium	ug/L	ND	20.0	5.1	04/09/24 12:52	
Magnesium	ug/L	ND	1000	32.8	04/09/24 12:52	
Manganese	ug/L	ND	10.0	1.1	04/09/24 12:52	
Molybdenum	ug/L	ND	10.0	1.1	04/09/24 12:52	
Potassium	ug/L	ND	1000	120	04/09/24 12:52	
Sodium	ug/L	ND	1000	48.2	04/09/24 12:52	

LABORATORY CONTROL SAMPLE: 3585120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	965	96	80-120	
Cadmium	ug/L	1000	976	98	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Iron	ug/L	10000	9980	100	80-120	
Lead	ug/L	1000	954	95	80-120	
Lithium	ug/L	1000	1020	102	80-120	
Magnesium	ug/L	10000	9860	99	80-120	
Manganese	ug/L	1000	992	99	80-120	
Molybdenum	ug/L	1000	1010	101	80-120	
Potassium	ug/L	10000	9960	100	80-120	
Sodium	ug/L	10000	9900	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3585121 3585122

Parameter	Units	3585121		3585122		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50369661002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Boron	ug/L	<100	1000	1000	1020	1000	100	75-125	2	20	
Cadmium	ug/L	<2.0	1000	1000	998	980	100	75-125	2	20	
Calcium	ug/L	60400	10000	10000	70500	69800	101	75-125	1	20	
Chromium	ug/L	<10.0	1000	1000	1020	1000	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3585121 3585122											
Parameter	Units	50369661002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Iron	ug/L	<100	10000	10000	10100	9900	101	99	75-125	2	20
Lead	ug/L	<10.0	1000	1000	941	926	94	92	75-125	2	20
Lithium	ug/L	<20.0	1000	1000	1010	998	101	100	75-125	2	20
Magnesium	ug/L	17700	10000	10000	27700	27200	100	95	75-125	2	20
Manganese	ug/L	<10.0	1000	1000	1000	977	100	98	75-125	2	20
Molybdenum	ug/L	<10.0	1000	1000	1040	1020	104	102	75-125	2	20
Potassium	ug/L	119000	10000	10000	129000	127000	100	86	75-125	1	20 E
Sodium	ug/L	57300	10000	10000	66800	66300	95	90	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch:	783849	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369793001, 50369793002, 50369793003, 50369793004		

METHOD BLANK: 3586612 Matrix: Water
 Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	04/10/24 10:17	

LABORATORY CONTROL SAMPLE: 3586613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	952	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586614 3586615

Parameter	Units	50369661002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum, Dissolved	ug/L	<10.0	1000	1000	1020	989	102	99	75-125	3	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch:	783739	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

METHOD BLANK: 3585931 Matrix: Water
 Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	04/08/24 13:59	
Arsenic	ug/L	ND	1.0	0.075	04/08/24 13:59	
Barium	ug/L	ND	1.0	0.077	04/08/24 13:59	
Beryllium	ug/L	ND	0.20	0.035	04/08/24 13:59	
Cobalt	ug/L	ND	1.0	0.046	04/08/24 13:59	
Selenium	ug/L	ND	1.0	0.20	04/08/24 13:59	
Thallium	ug/L	ND	1.0	0.040	04/08/24 13:59	

LABORATORY CONTROL SAMPLE: 3585932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.6	104	80-120	
Arsenic	ug/L	40	39.3	98	80-120	
Barium	ug/L	40	39.8	100	80-120	
Beryllium	ug/L	40	42.2	106	80-120	
Cobalt	ug/L	40	42.2	106	80-120	
Selenium	ug/L	40	39.8	99	80-120	
Thallium	ug/L	40	41.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3585933 3585934

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50369793001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	42.1	41.9	105	104	75-125	0	20
Arsenic	ug/L	ND	40	40	40.1	39.1	99	96	75-125	2	20
Barium	ug/L	43.1	40	40	86.2	85.5	108	106	75-125	1	20
Beryllium	ug/L	ND	40	40	45.6	44.4	114	111	75-125	3	20
Cobalt	ug/L	2.8	40	40	40.8	40.0	95	93	75-125	2	20
Selenium	ug/L	ND	40	40	40.4	39.4	101	98	75-125	2	20
Thallium	ug/L	ND	40	40	43.3	42.9	108	107	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch: 783756

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

METHOD BLANK: 3586052

Matrix: Water

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/05/24 21:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/05/24 21:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/05/24 21:39	

LABORATORY CONTROL SAMPLE: 3586053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.3	99	90-110	

SAMPLE DUPLICATE: 3586054

Parameter	Units	50369771001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	91.6	94.8	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	ND		20	
Alkalinity,Carbonate (CaCO3)	mg/L	56.0	60.0	7	20	

SAMPLE DUPLICATE: 3586055

Parameter	Units	50369792001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	243	247	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	243	247	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch: 783614

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369793001

METHOD BLANK: 3585373

Matrix: Water

Associated Lab Samples: 50369793001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/05/24 11:47	

LABORATORY CONTROL SAMPLE: 3585374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	308	103	80-120	

SAMPLE DUPLICATE: 3585375

Parameter	Units	50369908014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	201	195	3	10	

SAMPLE DUPLICATE: 3585376

Parameter	Units	50369757010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	243	247	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch:	783870	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369793002, 50369793003, 50369793004

METHOD BLANK: 3586662 Matrix: Water
 Associated Lab Samples: 50369793002, 50369793003, 50369793004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/08/24 09:36	

LABORATORY CONTROL SAMPLE: 3586663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	312	104	80-120	

SAMPLE DUPLICATE: 3586664

Parameter	Units	50369793002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	573	594	4	10	

SAMPLE DUPLICATE: 3586665

Parameter	Units	50369834008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	483	486	1	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch: 785160

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

SAMPLE DUPLICATE: 3591950

Parameter	Units	50369768004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.0	9.0	0	2	H3

SAMPLE DUPLICATE: 3592671

Parameter	Units	50369840003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.6	6.6	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369793

QC Batch: 783546 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369793001, 50369793002, 50369793004

METHOD BLANK: 3584960 Matrix: Water
 Associated Lab Samples: 50369793001, 50369793002, 50369793004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/04/24 21:02	

LABORATORY CONTROL SAMPLE: 3584961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3584962 3584963

Parameter	Units	50369850008		50369850008		50369850008		50369850008		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Nitrogen, Nitrate	mg/L	ND	ND	1	1	0.98	1.0	97	101	90-110	4	20	

MATRIX SPIKE SAMPLE: 3584964

Parameter	Units	50369768004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.76	1	1.8	104	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch:	783547	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369793003

METHOD BLANK:	3584965	Matrix:	Water
Associated Lab Samples:	50369793003		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/04/24 21:56	

LABORATORY CONTROL SAMPLE:	3584966					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE:	3584967						
Parameter	Units	50369839001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.039J	1	1.0	101	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch:	784250	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369793001, 50369793002, 50369793003, 50369793004		

METHOD BLANK: 3587866 Matrix: Water
 Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/10/24 12:44	

LABORATORY CONTROL SAMPLE: 3587867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587868 3587869

Parameter	Units	50369757010		50369793001		50369793002		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result				
Dissolved Organic Carbon	mg/L	10.1	40	40	50.2	50.8	100	102	80-120	1	20

MATRIX SPIKE SAMPLE: 3587870

Parameter	Units	50369793001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	ND	10	12.2	90	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: MW-26S **Lab ID: 50369793001** Collected: 04/03/24 11:40 Received: 04/04/24 08:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.552 ± 0.687 (1.14) C:NA T:93%	pCi/L	04/17/24 14:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.638 ± 0.359 (0.643) C:80% T:84%	pCi/L	04/16/24 12:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.19 ± 1.05 (1.78)	pCi/L	04/19/24 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: MW-26I **Lab ID: 50369793002** Collected: 04/03/24 10:35 Received: 04/04/24 08:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.225 ± 0.494 (0.893) C:NA T:96%	pCi/L	04/17/24 14:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.287 ± 0.363 (0.773) C:78% T:87%	pCi/L	04/16/24 12:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.512 ± 0.857 (1.67)	pCi/L	04/19/24 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-26D Lab ID: 50369793003 Collected: 04/03/24 12:21 Received: 04/04/24 08:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.375 ± 0.492 (0.820) C:NA T:90%	pCi/L	04/17/24 14:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.832 ± 0.433 (0.772) C:84% T:78%	pCi/L	04/16/24 12:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.21 ± 0.925 (1.59)	pCi/L	04/19/24 12:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Sample: DUP-1 **Lab ID: 50369793004** Collected: 04/03/24 08:00 Received: 04/04/24 08:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.216 ± 0.374 (0.668) C:NA T:85%	pCi/L	04/17/24 14:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.884 ± 0.397 (0.657) C:85% T:83%	pCi/L	04/16/24 12:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.10 ± 0.771 (1.33)	pCi/L	04/19/24 12:55	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch: 660306

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: 50369793001, 50369793002, 50369793003, 50369793004

METHOD BLANK: 3216133

Matrix: Water

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0981 ± 0.224 (0.361) C:NA T:88%	pCi/L	04/17/24 14:05	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

QC Batch:	660307	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: 50369793001, 50369793002, 50369793003, 50369793004

METHOD BLANK:	3216134	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 50369793001, 50369793002, 50369793003, 50369793004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0988 ± 0.326 (0.737) C:77% T:82%	pCi/L	04/16/24 12:10	

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

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QUALIFIERS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369793001	MW-26S	EPA 9056	783429		
50369793002	MW-26I	EPA 9056	783429		
50369793003	MW-26D	EPA 9056	783429		
50369793004	DUP-1	EPA 9056	783429		
50369793001	MW-26S	EPA 3010	783568	EPA 6010	784100
50369793002	MW-26I	EPA 3010	783568	EPA 6010	784100
50369793003	MW-26D	EPA 3010	783568	EPA 6010	784100
50369793004	DUP-1	EPA 3010	783568	EPA 6010	784100
50369793001	MW-26S	EPA 3010	783849	EPA 6010	784219
50369793002	MW-26I	EPA 3010	783849	EPA 6010	784219
50369793003	MW-26D	EPA 3010	783849	EPA 6010	784219
50369793004	DUP-1	EPA 3010	783849	EPA 6010	784219
50369793001	MW-26S	EPA 200.2	783739	EPA 6020	783858
50369793002	MW-26I	EPA 200.2	783739	EPA 6020	783858
50369793003	MW-26D	EPA 200.2	783739	EPA 6020	783858
50369793004	DUP-1	EPA 200.2	783739	EPA 6020	783858
50369793001	MW-26S	EPA 7470	784385	EPA 7470	784610
50369793002	MW-26I	EPA 7470	784385	EPA 7470	784610
50369793003	MW-26D	EPA 7470	784385	EPA 7470	784610
50369793004	DUP-1	EPA 7470	784385	EPA 7470	784610
50369793001	MW-26S	EPA 903.1	660306		
50369793002	MW-26I	EPA 903.1	660306		
50369793003	MW-26D	EPA 903.1	660306		
50369793004	DUP-1	EPA 903.1	660306		
50369793001	MW-26S	EPA 904.0	660307		
50369793002	MW-26I	EPA 904.0	660307		
50369793003	MW-26D	EPA 904.0	660307		
50369793004	DUP-1	EPA 904.0	660307		
50369793001	MW-26S	Total Radium Calculation	663344		
50369793002	MW-26I	Total Radium Calculation	663344		
50369793003	MW-26D	Total Radium Calculation	663344		
50369793004	DUP-1	Total Radium Calculation	663344		
50369793001	MW-26S	SM 2320B	783756		
50369793002	MW-26I	SM 2320B	783756		
50369793003	MW-26D	SM 2320B	783756		
50369793004	DUP-1	SM 2320B	783756		
50369793001	MW-26S	SM 2540C	783614		
50369793002	MW-26I	SM 2540C	783870		
50369793003	MW-26D	SM 2540C	783870		
50369793004	DUP-1	SM 2540C	783870		
50369793001	MW-26S	SM 4500-H+B	785160		
50369793002	MW-26I	SM 4500-H+B	785160		
50369793003	MW-26D	SM 4500-H+B	785160		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369793

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369793004	DUP-1	SM 4500-H+B	785160		
50369793001	MW-26S	EPA 353.2	783546		
50369793002	MW-26I	EPA 353.2	783546		
50369793003	MW-26D	EPA 353.2	783547		
50369793004	DUP-1	EPA 353.2	783546		
50369793001	MW-26S	SM 5310C	784250		
50369793002	MW-26I	SM 5310C	784250		
50369793003	MW-26D	SM 5310C	784250		
50369793004	DUP-1	SM 5310C	784250		

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CHAIN-OF-CUSTODY / Analytical

The Chain-of-Custody is a LEGAL DOCUMENT. A

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions of

WO#: 50369793



50369793

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Atlas Indianapolis		Report To: Mark Breting		Attention: Account	
Address: 7988 Centerpoint Drive Suite 100, Indianapolis, IN 46256		Copy To:		Company Name: Atlas Indianapolis	
Email: mark.breting@oneatlas.com		Purchase Order #:		Address:	
Phone: 317-313-8306	Fax:	Project Name: Eagle Valley April 2024		Pace Quote:	
Requested Due Date:		Project #: 170 AES 0001 / PIR1		Pace Project Manager: will.statz@pacelabs.com	
				Pace Profile #: 10498/56	
				Regulatory Agency	
				State / Location	
				IN	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)								Residual Chlorine (Y/N)				
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	Analyses Test	Y/N	Tot. Metals 6010/6020/7470	Diss metals by 6010	TDS by 2540C	DOC by 5310	Alkalinity / pH / Ferrous Fe	Nitrate by 363.2		C, F, SO4 by 9056	Rad 226/228 + SUM to Pitt		
						DATE	TIME	DATE	TIME																							
1	mw-26S	WT G				4.3.24	1140	8	3	1	4																					
2	mw-26I						1035																									
3	mw-26D						1221																									
4	mw-1						-																									
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NO2/NO3 has a SH time of 48 hours	J Hill / Atlas			2/2/24 PACE	4/24	800	2.3 Y Y Y
6020 - Be, Co, As, Se, Sb, Ba, Tl (7)							
6010 - B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li (12), 7470							
6010 Dis - Mo							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Jon Hill					
SIGNATURE of SAMPLER: J Hill	DATE Signed: 4.3.24				



SAMPLE CONDITION UPON RECEIPT FORM

Time and Initials of person examining contents: TW 4/4/24 825

Carrier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No (leave blank if no seals were present)

Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

Cooler Temperature(s): 24 2.3

Label/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, R, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	/		
Hold Time Analysis (48 hours or less)? Analysis: <u>Nitrate</u>	/		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	/		
ISO35A TC placed in Freezer or Short Holds To Lab Time: <u>0910</u>		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
AT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
ly Signatures Present?	/		Headspace Wisconsin Sulfide?			/
ers Intact?:	/		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Label (IDs/Dates/Times) Match COC?: Cs, which only require sample ID	/		Trip Blank Present?		/	
Labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:		/	

COMMENTS:



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50369975

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50369975001	MW-16I	Water	04/05/24 12:00	04/05/24 13:00
50369975002	MW-16D	Water	04/05/24 10:40	04/05/24 13:00
50369975003	MW-15D	Water	04/05/24 12:36	04/05/24 13:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369975001	MW-16I	EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50369975002	MW-16D	EPA 9056	KBB
EPA 6010	ELK			12	PASI-I
EPA 6010	NWB			1	PASI-I
EPA 6020	CAW			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50369975003	MW-15D			EPA 9056	KBB
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50369975

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369975001	MW-16I					
EPA 9056	Chloride	118	mg/L	2.5	04/10/24 13:09	
EPA 9056	Fluoride	0.30	mg/L	0.10	04/10/24 12:52	
EPA 9056	Sulfate	111	mg/L	2.5	04/10/24 13:09	
EPA 6010	Boron	155	ug/L	100	04/12/24 11:10	
EPA 6010	Calcium	87100	ug/L	1000	04/12/24 11:10	
EPA 6010	Lithium	55.7	ug/L	20.0	04/12/24 11:10	
EPA 6010	Magnesium	26100	ug/L	1000	04/12/24 11:10	
EPA 6010	Manganese	104	ug/L	10.0	04/12/24 11:10	
EPA 6010	Molybdenum	94.4	ug/L	10.0	04/12/24 11:10	
EPA 6010	Potassium	7980	ug/L	1000	04/12/24 11:10	
EPA 6010	Sodium	81100	ug/L	1000	04/12/24 11:10	
EPA 6010	Molybdenum, Dissolved	92.1	ug/L	10.0	04/12/24 09:52	
EPA 6020	Barium	82.8	ug/L	1.0	04/10/24 22:36	
EPA 903.1	Radium-226	0.768 ± 0.510 (0.671)	pCi/L		04/25/24 12:48	
EPA 904.0	Radium-228	C:NA T:91% 0.543 ± 0.384 (0.744)	pCi/L		04/19/24 16:07	
		C:86% T:84%				
Total Radium Calculation	Total Radium	1.31 ± 0.894 (1.42)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	236	mg/L	10.0	04/09/24 20:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	236	mg/L	10.0	04/09/24 20:17	
SM 2540C	Total Dissolved Solids	553	mg/L	10.0	04/10/24 12:22	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/18/24 14:29	H3
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	04/10/24 23:34	
50369975002	MW-16D					
EPA 9056	Chloride	70.0	mg/L	2.5	04/10/24 14:17	
EPA 9056	Fluoride	0.36	mg/L	0.10	04/10/24 14:00	
EPA 9056	Sulfate	57.1	mg/L	2.5	04/10/24 14:17	
EPA 6010	Calcium	70100	ug/L	1000	04/12/24 11:11	
EPA 6010	Iron	952	ug/L	100	04/12/24 11:11	
EPA 6010	Lithium	31.1	ug/L	20.0	04/12/24 11:11	
EPA 6010	Magnesium	17800	ug/L	1000	04/12/24 11:11	
EPA 6010	Manganese	164	ug/L	10.0	04/12/24 11:11	
EPA 6010	Molybdenum	36.9	ug/L	10.0	04/12/24 11:11	
EPA 6010	Potassium	7180	ug/L	1000	04/12/24 11:11	
EPA 6010	Sodium	57700	ug/L	1000	04/12/24 11:11	
EPA 6010	Molybdenum, Dissolved	36.4	ug/L	10.0	04/12/24 10:03	
EPA 6020	Arsenic	4.2	ug/L	1.0	04/10/24 22:59	
EPA 6020	Barium	59.2	ug/L	1.0	04/10/24 22:59	
EPA 903.1	Radium-226	0.360 ± 0.366 (0.553)	pCi/L		04/25/24 12:48	
		C:NA T:88%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50369975002	MW-16D					
EPA 904.0	Radium-228	0.231 ± 0.325 (0.697) C:81% T:83%	pCi/L		04/19/24 16:07	
Total Radium Calculation	Total Radium	0.591 ± 0.691 (1.25)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	226	mg/L	10.0	04/09/24 20:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	226	mg/L	10.0	04/09/24 20:17	
SM 2540C	Total Dissolved Solids	393	mg/L	10.0	04/10/24 12:23	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	04/18/24 14:29	H3
SM 5310C	Dissolved Organic Carbon	1.7	mg/L	1.0	04/10/24 23:57	
50369975003	MW-15D					
EPA 9056	Chloride	100	mg/L	2.5	04/10/24 15:08	
EPA 9056	Fluoride	0.25	mg/L	0.10	04/10/24 14:51	
EPA 9056	Sulfate	126	mg/L	2.5	04/10/24 15:08	
EPA 6010	Boron	3730	ug/L	100	04/12/24 11:21	
EPA 6010	Calcium	82600	ug/L	1000	04/12/24 11:21	
EPA 6010	Iron	157	ug/L	100	04/12/24 11:21	
EPA 6010	Lithium	81.3	ug/L	20.0	04/12/24 11:21	
EPA 6010	Magnesium	15300	ug/L	1000	04/12/24 11:21	
EPA 6010	Manganese	314	ug/L	10.0	04/12/24 11:21	
EPA 6010	Molybdenum	212	ug/L	10.0	04/12/24 11:21	
EPA 6010	Potassium	6340	ug/L	1000	04/12/24 11:21	
EPA 6010	Sodium	89800	ug/L	1000	04/12/24 11:21	
EPA 6010	Molybdenum, Dissolved	210	ug/L	10.0	04/12/24 10:04	
EPA 6020	Barium	45.9	ug/L	1.0	04/10/24 23:02	
EPA 903.1	Radium-226	0.204 ± 0.511 (0.927) C:NA T:91%	pCi/L		04/25/24 12:48	
EPA 904.0	Radium-228	0.953 ± 0.488 (0.867) C:81% T:79%	pCi/L		04/19/24 16:08	
Total Radium Calculation	Total Radium	1.16 ± 0.999 (1.79)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	206	mg/L	10.0	04/09/24 20:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	206	mg/L	10.0	04/09/24 20:17	
SM 2540C	Total Dissolved Solids	535	mg/L	10.0	04/10/24 12:23	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/18/24 14:30	H3
SM 5310C	Dissolved Organic Carbon	2.9	mg/L	1.0	04/11/24 00:08	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Sample: MW-161 Lab ID: 50369975001 Collected: 04/05/24 12:00 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	118	mg/L	2.5	0.67	10		04/10/24 13:09	16887-00-6	
Fluoride	0.30	mg/L	0.10	0.017	1		04/10/24 12:52	16984-48-8	
Sulfate	111	mg/L	2.5	1.9	10		04/10/24 13:09	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	155	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:10	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:10	7440-43-9	
Calcium	87100	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:10	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:10	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:10	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:10	7439-92-1	
Lithium	55.7	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:10	7439-93-2	
Magnesium	26100	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:10	7439-95-4	
Manganese	104	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:10	7439-96-5	
Molybdenum	94.4	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:10	7439-98-7	
Potassium	7980	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:10	7440-09-7	
Sodium	81100	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:10	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	92.1	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 09:52	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 07:25	04/10/24 22:36	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 07:25	04/10/24 22:36	7440-38-2	
Barium	82.8	ug/L	1.0	0.077	1	04/09/24 07:25	04/10/24 22:36	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 07:25	04/10/24 22:36	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 07:25	04/10/24 22:36	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 07:25	04/10/24 22:36	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 07:25	04/10/24 22:36	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/12/24 11:48	04/14/24 22:12	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	236	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Bicarbonate (CaCO3)	236	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 20:17		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Sample: MW-16I		Lab ID: 50369975001		Collected: 04/05/24 12:00	Received: 04/05/24 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	553	mg/L	10.0	10.0	1		04/10/24 12:22		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		04/18/24 14:29		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 02:26	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.6	mg/L	1.0	0.25	1		04/10/24 23:34		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Sample: MW-16D Lab ID: 50369975002 Collected: 04/05/24 10:40 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	70.0	mg/L	2.5	0.67	10		04/10/24 14:17	16887-00-6	
Fluoride	0.36	mg/L	0.10	0.017	1		04/10/24 14:00	16984-48-8	
Sulfate	57.1	mg/L	2.5	1.9	10		04/10/24 14:17	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:11	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:11	7440-43-9	
Calcium	70100	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:11	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:11	7440-47-3	
Iron	952	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:11	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:11	7439-92-1	
Lithium	31.1	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:11	7439-93-2	
Magnesium	17800	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:11	7439-95-4	
Manganese	164	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:11	7439-96-5	
Molybdenum	36.9	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:11	7439-98-7	
Potassium	7180	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:11	7440-09-7	
Sodium	57700	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:11	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	36.4	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:03	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 07:25	04/10/24 22:59	7440-36-0	
Arsenic	4.2	ug/L	1.0	0.075	1	04/09/24 07:25	04/10/24 22:59	7440-38-2	
Barium	59.2	ug/L	1.0	0.077	1	04/09/24 07:25	04/10/24 22:59	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 07:25	04/10/24 22:59	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 07:25	04/10/24 22:59	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 07:25	04/10/24 22:59	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 07:25	04/10/24 22:59	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/12/24 11:48	04/14/24 22:14	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	226	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Bicarbonate (CaCO3)	226	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 20:17		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Sample: MW-16D		Lab ID: 50369975002		Collected: 04/05/24 10:40	Received: 04/05/24 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	393	mg/L	10.0	10.0	1		04/10/24 12:23		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		04/18/24 14:29		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 02:20	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.7	mg/L	1.0	0.25	1		04/10/24 23:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Sample: MW-15D Lab ID: 50369975003 Collected: 04/05/24 12:36 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	100	mg/L	2.5	0.67	10		04/10/24 15:08	16887-00-6	
Fluoride	0.25	mg/L	0.10	0.017	1		04/10/24 14:51	16984-48-8	
Sulfate	126	mg/L	2.5	1.9	10		04/10/24 15:08	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	3730	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:21	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:21	7440-43-9	
Calcium	82600	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:21	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:21	7440-47-3	
Iron	157	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:21	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:21	7439-92-1	
Lithium	81.3	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:21	7439-93-2	
Magnesium	15300	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:21	7439-95-4	
Manganese	314	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:21	7439-96-5	
Molybdenum	212	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:21	7439-98-7	
Potassium	6340	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:21	7440-09-7	
Sodium	89800	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:21	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	210	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:04	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 07:25	04/10/24 23:02	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 07:25	04/10/24 23:02	7440-38-2	
Barium	45.9	ug/L	1.0	0.077	1	04/09/24 07:25	04/10/24 23:02	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 07:25	04/10/24 23:02	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 07:25	04/10/24 23:02	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 07:25	04/10/24 23:02	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 07:25	04/10/24 23:02	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/12/24 11:48	04/14/24 22:17	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	206	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Bicarbonate (CaCO3)	206	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 20:17		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Sample: MW-15D Lab ID: 50369975003 Collected: 04/05/24 12:36 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis								
Total Dissolved Solids	535	mg/L	10.0	10.0	1		04/10/24 12:23		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		04/18/24 14:30		H3
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 02:28	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.9	mg/L	1.0	0.25	1		04/11/24 00:08		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch:	783753	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369975001, 50369975002, 50369975003		

METHOD BLANK: 3586018 Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/10/24 18:02	
Fluoride	mg/L	ND	0.10	0.017	04/10/24 18:02	
Sulfate	mg/L	ND	0.25	0.19	04/10/24 18:02	

LABORATORY CONTROL SAMPLE: 3586019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	1.0	103	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586020 3586021

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50369962002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	46.4	25	25	71.4	71.3	100	100	80-120	0	15		
Fluoride	mg/L	1.1	1	1	2.2	2.2	106	111	80-120	2	15		
Sulfate	mg/L	1210	500	500	1680	1670	94	93	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.

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch:	784498	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369975001, 50369975002, 50369975003		

METHOD BLANK: 3588909 Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/14/24 22:07	

LABORATORY CONTROL SAMPLE: 3588910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588911 3588912

Parameter	Units	50369976002		3588912		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	ug/L	ND	5	5	4.6	4.8	93	95	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch:	783841	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369975001, 50369975002, 50369975003

METHOD BLANK: 3586575 Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/12/24 11:07	
Cadmium	ug/L	ND	2.0	0.60	04/12/24 11:07	
Calcium	ug/L	ND	1000	67.7	04/12/24 11:07	
Chromium	ug/L	ND	10.0	0.42	04/12/24 11:07	
Iron	ug/L	ND	100	30.0	04/12/24 11:07	
Lead	ug/L	ND	10.0	2.5	04/12/24 11:07	
Lithium	ug/L	ND	20.0	6.8	04/12/24 11:07	
Magnesium	ug/L	ND	1000	33.6	04/12/24 11:07	
Manganese	ug/L	ND	10.0	1.8	04/12/24 11:07	
Molybdenum	ug/L	ND	10.0	0.78	04/12/24 11:07	
Potassium	ug/L	ND	1000	97.8	04/12/24 11:07	
Sodium	ug/L	ND	1000	54.8	04/12/24 11:07	

LABORATORY CONTROL SAMPLE: 3586576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	898	90	80-120	
Cadmium	ug/L	1000	925	93	80-120	
Calcium	ug/L	10000	9610	96	80-120	
Chromium	ug/L	1000	946	95	80-120	
Iron	ug/L	10000	9310	93	80-120	
Lead	ug/L	1000	902	90	80-120	
Lithium	ug/L	1000	962	96	80-120	
Magnesium	ug/L	10000	9100	91	80-120	
Manganese	ug/L	1000	952	95	80-120	
Molybdenum	ug/L	1000	957	96	80-120	
Potassium	ug/L	10000	9310	93	80-120	
Sodium	ug/L	10000	9150	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586577 3586578

Parameter	Units	50369975002		3586578		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	ug/L	ND	1000	995	996	90	90	75-125	0	20	
Cadmium	ug/L	ND	1000	904	905	90	90	75-125	0	20	
Calcium	ug/L	70100	10000	78700	78300	87	82	75-125	1	20	
Chromium	ug/L	ND	1000	908	913	91	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586577 3586578												
Parameter	Units	50369975002		MS	MSD	3586577		3586578		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Iron	ug/L	952	10000	10000	10000	9920	9950	90	90	75-125	0	20
Lead	ug/L	ND	1000	1000	1000	852	858	85	86	75-125	1	20
Lithium	ug/L	31.1	1000	1000	1000	983	986	95	96	75-125	0	20
Magnesium	ug/L	17800	10000	10000	10000	26400	26300	86	85	75-125	0	20
Manganese	ug/L	164	1000	1000	1000	1070	1080	91	91	75-125	0	20
Molybdenum	ug/L	36.9	1000	1000	1000	969	977	93	94	75-125	1	20
Potassium	ug/L	7180	10000	10000	10000	16300	16500	92	93	75-125	1	20
Sodium	ug/L	57700	10000	10000	10000	66600	66400	89	88	75-125	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch:	783851	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369975001, 50369975002, 50369975003		

METHOD BLANK: 3586622 Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	04/12/24 09:49	

LABORATORY CONTROL SAMPLE: 3586623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	949	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586624 3586625

Parameter	Units	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result	% Rec	% Rec				
Molybdenum, Dissolved	ug/L	1000	92.1	1000	1040	95	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch:	783955	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369975001, 50369975002, 50369975003		

METHOD BLANK: 3586884 Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	04/10/24 19:31	
Arsenic	ug/L	ND	1.0	0.075	04/10/24 19:31	
Barium	ug/L	ND	1.0	0.077	04/10/24 19:31	
Beryllium	ug/L	ND	0.20	0.035	04/10/24 19:31	
Cobalt	ug/L	ND	1.0	0.046	04/10/24 19:31	
Selenium	ug/L	ND	1.0	0.20	04/10/24 19:31	
Thallium	ug/L	ND	1.0	0.040	04/10/24 19:31	

LABORATORY CONTROL SAMPLE: 3586885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.9	105	80-120	
Arsenic	ug/L	40	40.0	100	80-120	
Barium	ug/L	40	40.1	100	80-120	
Beryllium	ug/L	40	40.3	101	80-120	
Cobalt	ug/L	40	41.1	103	80-120	
Selenium	ug/L	40	41.1	103	80-120	
Thallium	ug/L	40	40.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586886 3586887

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50369975001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.7	42.1	104	105	75-125	1	20
Arsenic	ug/L	ND	40	40	39.2	39.2	97	98	75-125	0	20
Barium	ug/L	82.8	40	40	122	123	98	100	75-125	1	20
Beryllium	ug/L	ND	40	40	41.3	42.0	103	105	75-125	2	20
Cobalt	ug/L	ND	40	40	39.2	39.5	96	97	75-125	1	20
Selenium	ug/L	ND	40	40	39.3	38.9	98	97	75-125	1	20
Thallium	ug/L	ND	40	40	41.9	42.2	105	105	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch:	784155	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369975001, 50369975002, 50369975003

METHOD BLANK: 3587570 Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/09/24 20:17	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/09/24 20:17	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/09/24 20:17	

LABORATORY CONTROL SAMPLE: 3587571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	90-110	

SAMPLE DUPLICATE: 3587572

Parameter	Units	50369868001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	233	225	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	233	225	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3587573

Parameter	Units	50369975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	236	242	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	236	242	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch: 784227	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369975001, 50369975002, 50369975003

METHOD BLANK: 3587801 Matrix: Water
 Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/10/24 12:21	

LABORATORY CONTROL SAMPLE: 3587802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	298	99	80-120	

SAMPLE DUPLICATE: 3587803

Parameter	Units	50370001001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	125	133	6	10	

SAMPLE DUPLICATE: 3587804

Parameter	Units	50370044004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1560	1570	0	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch: 785574

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369975001, 50369975002, 50369975003

SAMPLE DUPLICATE: 3593647

Parameter	Units	50369962002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	2	H3

SAMPLE DUPLICATE: 3593648

Parameter	Units	50370327001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch:	783770	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369975001, 50369975002, 50369975003

METHOD BLANK: 3586092 Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/06/24 01:45	

LABORATORY CONTROL SAMPLE: 3586093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586094 3586095

Parameter	Units	50369946005		3586095		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Nitrogen, Nitrate	mg/L	8.7	5	5	13.9	13.8	103	103	90-110	0	20		

MATRIX SPIKE SAMPLE: 3586096

Parameter	Units	50369975003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	104	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch:	784256	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369975001, 50369975002, 50369975003		

METHOD BLANK: 3587875 Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/10/24 18:50	

LABORATORY CONTROL SAMPLE: 3587876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587877 3587878

Parameter	Units	50369908012		3587877		3587878		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Dissolved Organic Carbon	mg/L	3.6	10	10	10	13.3	13.0	98	95	80-120	2	20

MATRIX SPIKE SAMPLE: 3587879

Parameter	Units	50369975001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.6	10	10.8	92	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Sample: MW-161 **Lab ID: 50369975001** Collected: 04/05/24 12:00 Received: 04/05/24 13:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.768 ± 0.510 (0.671) C:NA T:91%	pCi/L	04/25/24 12:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.543 ± 0.384 (0.744) C:86% T:84%	pCi/L	04/19/24 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.31 ± 0.894 (1.42)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Sample: MW-16D **Lab ID: 50369975002** Collected: 04/05/24 10:40 Received: 04/05/24 13:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.360 ± 0.366 (0.553) C:NA T:88%	pCi/L	04/25/24 12:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.231 ± 0.325 (0.697) C:81% T:83%	pCi/L	04/19/24 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.591 ± 0.691 (1.25)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Sample: MW-15D **Lab ID: 50369975003** Collected: 04/05/24 12:36 Received: 04/05/24 13:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.204 ± 0.511 (0.927) C:NA T:91%	pCi/L	04/25/24 12:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.953 ± 0.488 (0.867) C:81% T:79%	pCi/L	04/19/24 16:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.16 ± 0.999 (1.79)	pCi/L	04/26/24 10:41	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch: 661213

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: 50369975001, 50369975002, 50369975003

METHOD BLANK: 3220444

Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.122 ± 0.290 (0.712) C:82% T:88%	pCi/L	04/19/24 16:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

QC Batch: 661212

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: 50369975001, 50369975002, 50369975003

METHOD BLANK: 3220443

Matrix: Water

Associated Lab Samples: 50369975001, 50369975002, 50369975003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.379 ± 0.251 (0.114) C:NA T:84%	pCi/L	04/25/24 12:48	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369975001	MW-16I	EPA 9056	783753		
50369975002	MW-16D	EPA 9056	783753		
50369975003	MW-15D	EPA 9056	783753		
50369975001	MW-16I	EPA 3010	783841	EPA 6010	784668
50369975002	MW-16D	EPA 3010	783841	EPA 6010	784668
50369975003	MW-15D	EPA 3010	783841	EPA 6010	784668
50369975001	MW-16I	EPA 3010	783851	EPA 6010	784622
50369975002	MW-16D	EPA 3010	783851	EPA 6010	784622
50369975003	MW-15D	EPA 3010	783851	EPA 6010	784622
50369975001	MW-16I	EPA 200.2	783955	EPA 6020	784168
50369975002	MW-16D	EPA 200.2	783955	EPA 6020	784168
50369975003	MW-15D	EPA 200.2	783955	EPA 6020	784168
50369975001	MW-16I	EPA 7470	784498	EPA 7470	784803
50369975002	MW-16D	EPA 7470	784498	EPA 7470	784803
50369975003	MW-15D	EPA 7470	784498	EPA 7470	784803
50369975001	MW-16I	EPA 903.1	661212		
50369975002	MW-16D	EPA 903.1	661212		
50369975003	MW-15D	EPA 903.1	661212		
50369975001	MW-16I	EPA 904.0	661213		
50369975002	MW-16D	EPA 904.0	661213		
50369975003	MW-15D	EPA 904.0	661213		
50369975001	MW-16I	Total Radium Calculation	664817		
50369975002	MW-16D	Total Radium Calculation	664817		
50369975003	MW-15D	Total Radium Calculation	664817		
50369975001	MW-16I	SM 2320B	784155		
50369975002	MW-16D	SM 2320B	784155		
50369975003	MW-15D	SM 2320B	784155		
50369975001	MW-16I	SM 2540C	784227		
50369975002	MW-16D	SM 2540C	784227		
50369975003	MW-15D	SM 2540C	784227		
50369975001	MW-16I	SM 4500-H+B	785574		
50369975002	MW-16D	SM 4500-H+B	785574		
50369975003	MW-15D	SM 4500-H+B	785574		
50369975001	MW-16I	EPA 353.2	783770		
50369975002	MW-16D	EPA 353.2	783770		
50369975003	MW-15D	EPA 353.2	783770		
50369975001	MW-16I	SM 5310C	784256		
50369975002	MW-16D	SM 5310C	784256		
50369975003	MW-15D	SM 5310C	784256		

REPORT OF LABORATORY ANALYSIS

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 4-5-24 15:55

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H** H

4. Cooler Temperature(s): 1.3/1.3
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO3</u>	<input checked="" type="checkbox"/>		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>17:15</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	MeOH (only)	VIALS						AMBER GLASS						PLASTIC						OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc							
		SBS	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B		BP3Z	CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black			
		DI	R																																
1												1			2	1	2	1	1												WT	✓	✓		
2												1			1	1	1	1	1																
3												1			1	1	1	1	1																
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Miscellaneous	
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	Syringe Kit	LL Cr+6 sampling kit
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore Kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	GN	General Container
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can (air sample)
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	WT	Water
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	SL	Solid Solid
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	OL	Oil
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50369976

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50369976

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50369976001	MW-2S	Water	04/05/24 11:00	04/05/24 13:00
50369976002	MW-2I	Water	04/05/24 11:05	04/05/24 13:00
50369976003	MW-2D	Water	04/05/24 10:20	04/05/24 13:00
50369976004	MW-3S	Water	04/05/24 10:05	04/05/24 13:00
50369976005	MW-12S	Water	04/05/24 10:15	04/05/24 13:00
50369976006	DUP 3	Water	04/05/24 08:00	04/05/24 13:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369976001	MW-2S	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50369976002	MW-2I	EPA 9056	ADM
EPA 6010	ELK			12	PASI-I
EPA 6010	NWB			1	PASI-I
EPA 6020	CAW			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50369976003	MW-2D			EPA 9056	KBB
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369976004	MW-3S	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		50369976005	MW-12S	EPA 353.2	DAW
SM 5310C	YAM			1	PASI-I
EPA 9056	KBB			3	PASI-I
EPA 6010	ELK			12	PASI-I
EPA 6010	NWB			1	PASI-I
EPA 6020	CAW			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
50369976006	DUP 3			EPA 353.2	DAW
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369976001	MW-2S					
EPA 9056	Chloride	128	mg/L	2.5	04/16/24 14:19	
EPA 9056	Fluoride	0.21	mg/L	0.10	04/13/24 04:52	
EPA 9056	Sulfate	110	mg/L	2.5	04/16/24 14:19	
EPA 6010	Boron	339	ug/L	100	04/12/24 11:23	
EPA 6010	Calcium	125000	ug/L	1000	04/12/24 11:23	
EPA 6010	Lithium	34.4	ug/L	20.0	04/12/24 11:23	
EPA 6010	Magnesium	26700	ug/L	1000	04/12/24 11:23	
EPA 6010	Manganese	20.8	ug/L	10.0	04/12/24 11:23	
EPA 6010	Molybdenum	13.9	ug/L	10.0	04/12/24 11:23	
EPA 6010	Potassium	5860	ug/L	1000	04/12/24 11:23	
EPA 6010	Sodium	87500	ug/L	1000	04/12/24 11:23	
EPA 6010	Molybdenum, Dissolved	12.3	ug/L	10.0	04/12/24 10:06	
EPA 6020	Arsenic	6.9	ug/L	1.0	04/10/24 23:06	
EPA 6020	Barium	120	ug/L	1.0	04/10/24 23:06	
EPA 6020	Selenium	3.1	ug/L	1.0	04/10/24 23:06	
EPA 903.1	Radium-226	0.124 ± 0.297 (0.575)	pCi/L		04/19/24 15:44	
EPA 904.0	Radium-228	0.151 ± 0.369 (0.820) C:87% T:83%	pCi/L		04/22/24 15:44	
Total Radium Calculation	Total Radium	0.275 ± 0.666 (1.40)	pCi/L		04/26/24 11:33	
SM 2320B	Alkalinity, Total as CaCO3	332	mg/L	10.0	04/09/24 20:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	332	mg/L	10.0	04/09/24 20:17	
SM 2540C	Total Dissolved Solids	666	mg/L	10.0	04/10/24 12:23	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/18/24 14:30	H3
EPA 353.2	Nitrogen, Nitrate	0.54	mg/L	0.10	04/06/24 02:22	
SM 5310C	Dissolved Organic Carbon	2.2	mg/L	1.0	04/11/24 00:50	
50369976002	MW-2I					
EPA 9056	Chloride	112	mg/L	2.5	04/16/24 14:37	
EPA 9056	Fluoride	0.34	mg/L	0.10	04/13/24 05:46	
EPA 9056	Sulfate	80.3	mg/L	2.5	04/16/24 14:37	
EPA 6010	Boron	161	ug/L	100	04/12/24 11:24	
EPA 6010	Calcium	67700	ug/L	1000	04/12/24 11:24	
EPA 6010	Lithium	31.2	ug/L	20.0	04/12/24 11:24	
EPA 6010	Magnesium	19600	ug/L	1000	04/12/24 11:24	
EPA 6010	Manganese	146	ug/L	10.0	04/12/24 11:24	
EPA 6010	Molybdenum	88.6	ug/L	10.0	04/12/24 11:24	
EPA 6010	Potassium	7060	ug/L	1000	04/12/24 11:24	
EPA 6010	Sodium	88100	ug/L	1000	04/12/24 11:24	
EPA 6010	Molybdenum, Dissolved	88.1	ug/L	10.0	04/12/24 10:07	
EPA 6020	Barium	70.1	ug/L	1.0	04/10/24 23:09	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369976002	MW-2I					
EPA 903.1	Radium-226	0.351 ± 0.586 (1.02) C:NA T:88%	pCi/L		04/19/24 15:44	
EPA 904.0	Radium-228	0.540 ± 0.421 (0.836) C:86% T:83%	pCi/L		04/22/24 15:44	
Total Radium Calculation	Total Radium	0.891 ± 1.01 (1.86)	pCi/L		04/26/24 11:33	
SM 2320B	Alkalinity, Total as CaCO3	219	mg/L	10.0	04/09/24 20:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	219	mg/L	10.0	04/09/24 20:17	
SM 2540C	Total Dissolved Solids	471	mg/L	10.0	04/10/24 12:25	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/18/24 14:31	H3
SM 5310C	Dissolved Organic Carbon	1.7	mg/L	1.0	04/16/24 15:43	
50369976003	MW-2D					
EPA 9056	Chloride	71.7	mg/L	2.5	04/13/24 07:15	
EPA 9056	Fluoride	0.34	mg/L	0.10	04/13/24 06:58	
EPA 9056	Sulfate	59.2	mg/L	2.5	04/13/24 07:15	
EPA 6010	Boron	145	ug/L	100	04/12/24 11:26	
EPA 6010	Calcium	74400	ug/L	1000	04/12/24 11:26	
EPA 6010	Iron	931	ug/L	100	04/12/24 11:26	
EPA 6010	Lithium	34.5	ug/L	20.0	04/12/24 11:26	
EPA 6010	Magnesium	18000	ug/L	1000	04/12/24 11:26	
EPA 6010	Manganese	205	ug/L	10.0	04/12/24 11:26	
EPA 6010	Molybdenum	42.7	ug/L	10.0	04/12/24 11:26	
EPA 6010	Potassium	7730	ug/L	1000	04/12/24 11:26	
EPA 6010	Sodium	62600	ug/L	1000	04/12/24 11:26	
EPA 6010	Molybdenum, Dissolved	40.7	ug/L	10.0	04/12/24 10:09	
EPA 6020	Arsenic	4.6	ug/L	1.0	04/10/24 23:19	
EPA 6020	Barium	68.9	ug/L	1.0	04/10/24 23:19	
EPA 903.1	Radium-226	0.612 ± 0.592 (0.919) C:NA T:84%	pCi/L		04/19/24 15:44	
EPA 904.0	Radium-228	0.769 ± 0.397 (0.698) C:94% T:79%	pCi/L		04/22/24 15:44	
Total Radium Calculation	Total Radium	1.38 ± 0.989 (1.62)	pCi/L		04/26/24 11:33	
SM 2320B	Alkalinity, Total as CaCO3	240	mg/L	10.0	04/09/24 20:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	240	mg/L	10.0	04/09/24 20:17	
SM 2540C	Total Dissolved Solids	349	mg/L	10.0	04/10/24 12:25	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/18/24 14:32	H3
EPA 353.2	Nitrogen, Nitrate	0.42	mg/L	0.10	04/06/24 02:15	
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	04/16/24 16:16	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369976004	MW-3S					
EPA 9056	Chloride	143	mg/L	2.5	04/13/24 08:09	
EPA 9056	Fluoride	0.33	mg/L	0.10	04/13/24 07:51	
EPA 9056	Sulfate	162	mg/L	2.5	04/13/24 08:09	
EPA 6010	Boron	232	ug/L	100	04/12/24 11:27	
EPA 6010	Calcium	92000	ug/L	1000	04/12/24 11:27	
EPA 6010	Magnesium	25300	ug/L	1000	04/12/24 11:27	
EPA 6010	Manganese	715	ug/L	10.0	04/12/24 11:27	
EPA 6010	Molybdenum	44.3	ug/L	10.0	04/12/24 11:27	
EPA 6010	Potassium	5500	ug/L	1000	04/12/24 11:27	
EPA 6010	Sodium	107000	ug/L	1000	04/12/24 11:27	
EPA 6010	Molybdenum, Dissolved	42.9	ug/L	10.0	04/12/24 10:10	
EPA 6020	Barium	106	ug/L	1.0	04/10/24 23:23	
EPA 903.1	Radium-226	0.256 ± 0.435 (0.767)	pCi/L		04/19/24 15:44	
EPA 904.0	Radium-228	C:NA T:84% 0.0741 ± 0.358 (0.815) C:80% T:84%	pCi/L		04/22/24 15:44	
Total Radium Calculation	Total Radium	0.330 ± 0.793 (1.58)	pCi/L		04/26/24 11:33	
SM 2320B	Alkalinity, Total as CaCO3	227	mg/L	10.0	04/09/24 20:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	227	mg/L	10.0	04/09/24 20:17	
SM 2540C	Total Dissolved Solids	680	mg/L	10.0	04/10/24 12:25	
SM 4500-H+B	pH at 25 Degrees C	6.3	Std. Units	0.10	04/18/24 16:28	H3
EPA 353.2	Nitrogen, Nitrate	0.43	mg/L	0.10	04/06/24 02:11	
SM 5310C	Dissolved Organic Carbon	1.5	mg/L	1.0	04/16/24 16:31	
50369976005	MW-12S					
EPA 9056	Chloride	40.3	mg/L	2.5	04/13/24 08:45	
EPA 9056	Fluoride	0.27	mg/L	0.10	04/13/24 08:27	
EPA 9056	Sulfate	176	mg/L	2.5	04/13/24 08:45	
EPA 6010	Boron	6800	ug/L	100	04/12/24 11:28	
EPA 6010	Calcium	149000	ug/L	1000	04/12/24 11:28	
EPA 6010	Iron	3420	ug/L	100	04/12/24 11:28	
EPA 6010	Lithium	138	ug/L	20.0	04/12/24 11:28	
EPA 6010	Magnesium	31500	ug/L	1000	04/12/24 11:28	
EPA 6010	Manganese	740	ug/L	10.0	04/12/24 11:28	
EPA 6010	Molybdenum	28.6	ug/L	10.0	04/12/24 11:28	
EPA 6010	Potassium	13700	ug/L	1000	04/12/24 11:28	
EPA 6010	Sodium	92500	ug/L	1000	04/12/24 11:28	
EPA 6010	Molybdenum, Dissolved	22.9	ug/L	10.0	04/12/24 10:15	
EPA 6020	Antimony	2.0	ug/L	1.0	04/10/24 23:26	
EPA 6020	Arsenic	5.0	ug/L	1.0	04/10/24 23:26	
EPA 6020	Barium	172	ug/L	1.0	04/10/24 23:26	
EPA 6020	Cobalt	1.7	ug/L	1.0	04/10/24 23:26	
EPA 6020	Selenium	21.2	ug/L	1.0	04/10/24 23:26	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369976005	MW-12S					
EPA 903.1	Radium-226	0.241 ± 0.443 (0.791)	pCi/L		04/19/24 15:44	
EPA 904.0	Radium-228	C:NA T:96% 0.0811 ± 0.355 (0.807)	pCi/L		04/22/24 15:45	
		C:86% T:81%				
Total Radium Calculation	Total Radium	0.322 ± 0.798 (1.60)	pCi/L		04/26/24 11:33	
SM 2320B	Alkalinity, Total as CaCO3	461	mg/L	10.0	04/09/24 20:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	461	mg/L	10.0	04/09/24 20:17	
SM 2540C	Total Dissolved Solids	746	mg/L	20.0	04/10/24 12:25	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	04/18/24 16:29	H3
EPA 353.2	Nitrogen, Nitrate	0.25	mg/L	0.10	04/06/24 02:13	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/16/24 16:41	
50369976006	DUP 3					
EPA 9056	Chloride	39.6	mg/L	2.5	04/13/24 10:15	
EPA 9056	Fluoride	0.26	mg/L	0.10	04/13/24 09:57	
EPA 9056	Sulfate	175	mg/L	2.5	04/13/24 10:15	
EPA 6010	Boron	6880	ug/L	100	04/12/24 11:30	
EPA 6010	Calcium	146000	ug/L	1000	04/12/24 11:30	
EPA 6010	Iron	1040	ug/L	100	04/12/24 11:30	
EPA 6010	Lithium	139	ug/L	20.0	04/12/24 11:30	
EPA 6010	Magnesium	30100	ug/L	1000	04/12/24 11:30	
EPA 6010	Manganese	295	ug/L	10.0	04/12/24 11:30	
EPA 6010	Molybdenum	25.9	ug/L	10.0	04/12/24 11:30	
EPA 6010	Potassium	13400	ug/L	1000	04/12/24 11:30	
EPA 6010	Sodium	92900	ug/L	1000	04/12/24 11:30	
EPA 6010	Molybdenum, Dissolved	22.9	ug/L	10.0	04/12/24 10:16	
EPA 6020	Antimony	1.8	ug/L	1.0	04/10/24 23:29	
EPA 6020	Arsenic	2.4	ug/L	1.0	04/10/24 23:29	
EPA 6020	Barium	153	ug/L	1.0	04/10/24 23:29	
EPA 6020	Selenium	21.7	ug/L	1.0	04/10/24 23:29	
EPA 903.1	Radium-226	-0.117 ± 0.511 (1.06) C:NA	pCi/L		04/19/24 15:44	
EPA 904.0	Radium-228	T:96% 0.229 ± 0.367 (0.796)	pCi/L		04/22/24 15:45	
		C:89% T:81%				
Total Radium Calculation	Total Radium	0.229 ± 0.878 (1.86)	pCi/L		04/26/24 11:33	
SM 2320B	Alkalinity, Total as CaCO3	456	mg/L	10.0	04/09/24 20:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	456	mg/L	10.0	04/09/24 20:17	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50369976006	DUP 3					
SM 2540C	Total Dissolved Solids	704	mg/L	20.0	04/10/24 12:25	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/18/24 16:30	H3
EPA 353.2	Nitrogen, Nitrate	0.25	mg/L	0.10	04/06/24 02:09	
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	04/16/24 16:51	

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369976

Sample: MW-2S **Lab ID: 50369976001** Collected: 04/05/24 11:00 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	128	mg/L	2.5	0.67	10		04/16/24 14:19	16887-00-6	
Fluoride	0.21	mg/L	0.10	0.017	1		04/13/24 04:52	16984-48-8	
Sulfate	110	mg/L	2.5	1.9	10		04/16/24 14:19	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	339	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:23	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:23	7440-43-9	
Calcium	125000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:23	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:23	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:23	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:23	7439-92-1	
Lithium	34.4	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:23	7439-93-2	
Magnesium	26700	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:23	7439-95-4	
Manganese	20.8	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:23	7439-96-5	
Molybdenum	13.9	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:23	7439-98-7	
Potassium	5860	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:23	7440-09-7	
Sodium	87500	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:23	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	12.3	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:06	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 07:25	04/10/24 23:06	7440-36-0	
Arsenic	6.9	ug/L	1.0	0.075	1	04/09/24 07:25	04/10/24 23:06	7440-38-2	
Barium	120	ug/L	1.0	0.077	1	04/09/24 07:25	04/10/24 23:06	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 07:25	04/10/24 23:06	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 07:25	04/10/24 23:06	7440-48-4	
Selenium	3.1	ug/L	1.0	0.20	1	04/09/24 07:25	04/10/24 23:06	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 07:25	04/10/24 23:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/12/24 11:48	04/14/24 22:19	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	332	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Bicarbonate (CaCO3)	332	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 20:17		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-2S		Lab ID: 50369976001		Collected: 04/05/24 11:00	Received: 04/05/24 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	666	mg/L	10.0	10.0	1		04/10/24 12:23		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/18/24 14:30		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.54	mg/L	0.10	0.013	1		04/06/24 02:22	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.2	mg/L	1.0	0.25	1		04/11/24 00:50		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-2I Lab ID: 50369976002 Collected: 04/05/24 11:05 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	112	mg/L	2.5	0.67	10		04/16/24 14:37	16887-00-6	
Fluoride	0.34	mg/L	0.10	0.017	1		04/13/24 05:46	16984-48-8	
Sulfate	80.3	mg/L	2.5	1.9	10		04/16/24 14:37	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	161	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:24	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:24	7440-43-9	
Calcium	67700	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:24	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:24	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:24	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:24	7439-92-1	
Lithium	31.2	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:24	7439-93-2	
Magnesium	19600	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:24	7439-95-4	
Manganese	146	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:24	7439-96-5	
Molybdenum	88.6	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:24	7439-98-7	
Potassium	7060	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:24	7440-09-7	
Sodium	88100	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:24	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	88.1	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:07	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 07:25	04/10/24 23:09	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 07:25	04/10/24 23:09	7440-38-2	
Barium	70.1	ug/L	1.0	0.077	1	04/09/24 07:25	04/10/24 23:09	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 07:25	04/10/24 23:09	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 07:25	04/10/24 23:09	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 07:25	04/10/24 23:09	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 07:25	04/10/24 23:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/12/24 11:48	04/14/24 22:22	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	219	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Bicarbonate (CaCO3)	219	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 20:17		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-2I		Lab ID: 50369976002		Collected: 04/05/24 11:05	Received: 04/05/24 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	471	mg/L	10.0	10.0	1		04/10/24 12:25		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		04/18/24 14:31		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 02:24	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.7	mg/L	1.0	0.25	1		04/16/24 15:43		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-2D Lab ID: 50369976003 Collected: 04/05/24 10:20 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	71.7	mg/L	2.5	0.67	10		04/13/24 07:15	16887-00-6	
Fluoride	0.34	mg/L	0.10	0.017	1		04/13/24 06:58	16984-48-8	
Sulfate	59.2	mg/L	2.5	1.9	10		04/13/24 07:15	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	145	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:26	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:26	7440-43-9	
Calcium	74400	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:26	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:26	7440-47-3	
Iron	931	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:26	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:26	7439-92-1	
Lithium	34.5	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:26	7439-93-2	
Magnesium	18000	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:26	7439-95-4	
Manganese	205	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:26	7439-96-5	
Molybdenum	42.7	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:26	7439-98-7	
Potassium	7730	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:26	7440-09-7	
Sodium	62600	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:26	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	40.7	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:09	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 07:25	04/10/24 23:19	7440-36-0	
Arsenic	4.6	ug/L	1.0	0.075	1	04/09/24 07:25	04/10/24 23:19	7440-38-2	
Barium	68.9	ug/L	1.0	0.077	1	04/09/24 07:25	04/10/24 23:19	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 07:25	04/10/24 23:19	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 07:25	04/10/24 23:19	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 07:25	04/10/24 23:19	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 07:25	04/10/24 23:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/12/24 11:48	04/14/24 22:29	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	240	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Bicarbonate (CaCO3)	240	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 20:17		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-2D		Lab ID: 50369976003		Collected: 04/05/24 10:20	Received: 04/05/24 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	349	mg/L	10.0	10.0	1		04/10/24 12:25		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		04/18/24 14:32		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.42	mg/L	0.10	0.013	1		04/06/24 02:15	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.6	mg/L	1.0	0.25	1		04/16/24 16:16		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369976

Sample: MW-3S **Lab ID: 50369976004** Collected: 04/05/24 10:05 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	143	mg/L	2.5	0.67	10		04/13/24 08:09	16887-00-6	
Fluoride	0.33	mg/L	0.10	0.017	1		04/13/24 07:51	16984-48-8	
Sulfate	162	mg/L	2.5	1.9	10		04/13/24 08:09	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	232	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:27	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:27	7440-43-9	
Calcium	92000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:27	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:27	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:27	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:27	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:27	7439-93-2	
Magnesium	25300	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:27	7439-95-4	
Manganese	715	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:27	7439-96-5	
Molybdenum	44.3	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:27	7439-98-7	
Potassium	5500	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:27	7440-09-7	
Sodium	107000	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:27	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	42.9	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:10	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 07:25	04/10/24 23:23	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 07:25	04/10/24 23:23	7440-38-2	
Barium	106	ug/L	1.0	0.077	1	04/09/24 07:25	04/10/24 23:23	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 07:25	04/10/24 23:23	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 07:25	04/10/24 23:23	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 07:25	04/10/24 23:23	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 07:25	04/10/24 23:23	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/12/24 11:48	04/14/24 22:36	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	227	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Bicarbonate (CaCO3)	227	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 20:17		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-3S		Lab ID: 50369976004		Collected: 04/05/24 10:05	Received: 04/05/24 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	680	mg/L	10.0	10.0	1		04/10/24 12:25		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.3	Std. Units	0.10	0.10	1		04/18/24 16:28		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.43	mg/L	0.10	0.013	1		04/06/24 02:11	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.5	mg/L	1.0	0.25	1		04/16/24 16:31		

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**ANALYTICAL RESULTS**

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-12S **Lab ID: 50369976005** Collected: 04/05/24 10:15 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	40.3	mg/L	2.5	0.67	10		04/13/24 08:45	16887-00-6	
Fluoride	0.27	mg/L	0.10	0.017	1		04/13/24 08:27	16984-48-8	
Sulfate	176	mg/L	2.5	1.9	10		04/13/24 08:45	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	6800	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:28	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:28	7440-43-9	
Calcium	149000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:28	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:28	7440-47-3	
Iron	3420	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:28	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:28	7439-92-1	
Lithium	138	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:28	7439-93-2	
Magnesium	31500	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:28	7439-95-4	
Manganese	740	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:28	7439-96-5	
Molybdenum	28.6	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:28	7439-98-7	
Potassium	13700	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:28	7440-09-7	
Sodium	92500	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:28	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	22.9	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:15	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	2.0	ug/L	1.0	0.49	1	04/09/24 07:25	04/10/24 23:26	7440-36-0	
Arsenic	5.0	ug/L	1.0	0.075	1	04/09/24 07:25	04/10/24 23:26	7440-38-2	
Barium	172	ug/L	1.0	0.077	1	04/09/24 07:25	04/10/24 23:26	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 07:25	04/10/24 23:26	7440-41-7	
Cobalt	1.7	ug/L	1.0	0.046	1	04/09/24 07:25	04/10/24 23:26	7440-48-4	
Selenium	21.2	ug/L	1.0	0.20	1	04/09/24 07:25	04/10/24 23:26	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 07:25	04/10/24 23:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/12/24 11:48	04/14/24 22:39	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	461	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Bicarbonate (CaCO3)	461	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 20:17		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-12S Lab ID: 50369976005 Collected: 04/05/24 10:15 Received: 04/05/24 13:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	746	mg/L	20.0	20.0	1		04/10/24 12:25		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.9	Std. Units	0.10	0.10	1		04/18/24 16:29		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	0.25	mg/L	0.10	0.013	1		04/06/24 02:13	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/16/24 16:41		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: DUP 3 Lab ID: 50369976006 Collected: 04/05/24 08:00 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	39.6	mg/L	2.5	0.67	10		04/13/24 10:15	16887-00-6	
Fluoride	0.26	mg/L	0.10	0.017	1		04/13/24 09:57	16984-48-8	
Sulfate	175	mg/L	2.5	1.9	10		04/13/24 10:15	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	6880	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:30	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:30	7440-43-9	
Calcium	146000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:30	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:30	7440-47-3	
Iron	1040	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:30	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:30	7439-92-1	
Lithium	139	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:30	7439-93-2	
Magnesium	30100	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:30	7439-95-4	
Manganese	295	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:30	7439-96-5	
Molybdenum	25.9	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:30	7439-98-7	
Potassium	13400	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:30	7440-09-7	
Sodium	92900	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:30	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	22.9	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:16	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	1.8	ug/L	1.0	0.49	1	04/09/24 07:25	04/10/24 23:29	7440-36-0	
Arsenic	2.4	ug/L	1.0	0.075	1	04/09/24 07:25	04/10/24 23:29	7440-38-2	
Barium	153	ug/L	1.0	0.077	1	04/09/24 07:25	04/10/24 23:29	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 07:25	04/10/24 23:29	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 07:25	04/10/24 23:29	7440-48-4	
Selenium	21.7	ug/L	1.0	0.20	1	04/09/24 07:25	04/10/24 23:29	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 07:25	04/10/24 23:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/12/24 11:48	04/14/24 22:41	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	456	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Bicarbonate (CaCO3)	456	mg/L	10.0	10.0	1		04/09/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 20:17		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: DUP 3 Lab ID: 50369976006 Collected: 04/05/24 08:00 Received: 04/05/24 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	704	mg/L	20.0	20.0	1		04/10/24 12:25		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		04/18/24 16:30		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	0.25	mg/L	0.10	0.013	1		04/06/24 02:09	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.6	mg/L	1.0	0.25	1		04/16/24 16:51		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch:	784368	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3588321 Matrix: Water
 Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/12/24 18:32	
Fluoride	mg/L	ND	0.10	0.017	04/12/24 18:32	
Sulfate	mg/L	ND	0.25	0.19	04/12/24 18:32	

LABORATORY CONTROL SAMPLE: 3588322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	1.0	102	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588323 3588324

Parameter	Units	50370001004		3588323		3588324		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	10.9	2.5	2.5	13.4	13.4	98	98	80-120	0	15		
Fluoride	mg/L	ND	1	1	1.1	1.1	104	104	80-120	0	15		
Sulfate	mg/L	9.2	5	5	14.0	13.9	96	95	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.

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch: 784498 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3588909 Matrix: Water
 Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/14/24 22:07	

LABORATORY CONTROL SAMPLE: 3588910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588911 3588912

Parameter	Units	50369976002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.6	4.8	93	95	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch:	783841	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3586575 Matrix: Water

Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/12/24 11:07	
Cadmium	ug/L	ND	2.0	0.60	04/12/24 11:07	
Calcium	ug/L	ND	1000	67.7	04/12/24 11:07	
Chromium	ug/L	ND	10.0	0.42	04/12/24 11:07	
Iron	ug/L	ND	100	30.0	04/12/24 11:07	
Lead	ug/L	ND	10.0	2.5	04/12/24 11:07	
Lithium	ug/L	ND	20.0	6.8	04/12/24 11:07	
Magnesium	ug/L	ND	1000	33.6	04/12/24 11:07	
Manganese	ug/L	ND	10.0	1.8	04/12/24 11:07	
Molybdenum	ug/L	ND	10.0	0.78	04/12/24 11:07	
Potassium	ug/L	ND	1000	97.8	04/12/24 11:07	
Sodium	ug/L	ND	1000	54.8	04/12/24 11:07	

LABORATORY CONTROL SAMPLE: 3586576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	898	90	80-120	
Cadmium	ug/L	1000	925	93	80-120	
Calcium	ug/L	10000	9610	96	80-120	
Chromium	ug/L	1000	946	95	80-120	
Iron	ug/L	10000	9310	93	80-120	
Lead	ug/L	1000	902	90	80-120	
Lithium	ug/L	1000	962	96	80-120	
Magnesium	ug/L	10000	9100	91	80-120	
Manganese	ug/L	1000	952	95	80-120	
Molybdenum	ug/L	1000	957	96	80-120	
Potassium	ug/L	10000	9310	93	80-120	
Sodium	ug/L	10000	9150	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586577 3586578

Parameter	Units	50369975002		3586578		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Boron	ug/L	ND	1000	1000	995	996	90	90	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	904	905	90	90	75-125	0	20	
Calcium	ug/L	70100	10000	10000	78700	78300	87	82	75-125	1	20	
Chromium	ug/L	ND	1000	1000	908	913	91	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586577 3586578														
Parameter	Units	50369975002		MS	MSD	3586578		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result							
Iron	ug/L	952	10000	10000	9920	9950	90	90	75-125	0	20			
Lead	ug/L	ND	1000	1000	852	858	85	86	75-125	1	20			
Lithium	ug/L	31.1	1000	1000	983	986	95	96	75-125	0	20			
Magnesium	ug/L	17800	10000	10000	26400	26300	86	85	75-125	0	20			
Manganese	ug/L	164	1000	1000	1070	1080	91	91	75-125	0	20			
Molybdenum	ug/L	36.9	1000	1000	969	977	93	94	75-125	1	20			
Potassium	ug/L	7180	10000	10000	16300	16500	92	93	75-125	1	20			
Sodium	ug/L	57700	10000	10000	66600	66400	89	88	75-125	0	20			

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch: 783851 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3586622 Matrix: Water
 Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	04/12/24 09:49	

LABORATORY CONTROL SAMPLE: 3586623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	949	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586624 3586625

Parameter	Units	50369975001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum, Dissolved	ug/L	92.1	1000	1000	1040	1040	95	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch:	783955	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3586884 Matrix: Water
 Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	04/10/24 19:31	
Arsenic	ug/L	ND	1.0	0.075	04/10/24 19:31	
Barium	ug/L	ND	1.0	0.077	04/10/24 19:31	
Beryllium	ug/L	ND	0.20	0.035	04/10/24 19:31	
Cobalt	ug/L	ND	1.0	0.046	04/10/24 19:31	
Selenium	ug/L	ND	1.0	0.20	04/10/24 19:31	
Thallium	ug/L	ND	1.0	0.040	04/10/24 19:31	

LABORATORY CONTROL SAMPLE: 3586885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.9	105	80-120	
Arsenic	ug/L	40	40.0	100	80-120	
Barium	ug/L	40	40.1	100	80-120	
Beryllium	ug/L	40	40.3	101	80-120	
Cobalt	ug/L	40	41.1	103	80-120	
Selenium	ug/L	40	41.1	103	80-120	
Thallium	ug/L	40	40.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586886 3586887

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50369975001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.7	42.1	104	105	75-125	1	20
Arsenic	ug/L	ND	40	40	39.2	39.2	97	98	75-125	0	20
Barium	ug/L	82.8	40	40	122	123	98	100	75-125	1	20
Beryllium	ug/L	ND	40	40	41.3	42.0	103	105	75-125	2	20
Cobalt	ug/L	ND	40	40	39.2	39.5	96	97	75-125	1	20
Selenium	ug/L	ND	40	40	39.3	38.9	98	97	75-125	1	20
Thallium	ug/L	ND	40	40	41.9	42.2	105	105	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch:	784155	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006		

METHOD BLANK: 3587570 Matrix: Water
 Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/09/24 20:17	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/09/24 20:17	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/09/24 20:17	

LABORATORY CONTROL SAMPLE: 3587571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	90-110	

SAMPLE DUPLICATE: 3587572

Parameter	Units	50369868001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	233	225	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	233	225	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3587573

Parameter	Units	50369975001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	236	242	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	236	242	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch:	784227	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3587801 Matrix: Water

Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/10/24 12:21	

LABORATORY CONTROL SAMPLE: 3587802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	298	99	80-120	

SAMPLE DUPLICATE: 3587803

Parameter	Units	50370001001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	125	133	6	10	

SAMPLE DUPLICATE: 3587804

Parameter	Units	50370044004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1560	1570	0	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch: 785574

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369976001, 50369976002, 50369976003

SAMPLE DUPLICATE: 3593647

Parameter	Units	50369962002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	2	H3

SAMPLE DUPLICATE: 3593648

Parameter	Units	50370327001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch:	785655	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369976004, 50369976005, 50369976006

SAMPLE DUPLICATE: 3594044

Parameter	Units	50369976004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.3	6.4	1	2	H3

SAMPLE DUPLICATE: 3594045

Parameter	Units	50369982003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch: 783770 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3586092 Matrix: Water
 Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/06/24 01:45	

LABORATORY CONTROL SAMPLE: 3586093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586094 3586095

Parameter	Units	50369946005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	8.7	5	5	13.9	13.8	103	103	90-110	0	20	

MATRIX SPIKE SAMPLE: 3586096

Parameter	Units	50369975003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	104	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch:	784256	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369976001

METHOD BLANK: 3587875 Matrix: Water

Associated Lab Samples: 50369976001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/10/24 18:50	

LABORATORY CONTROL SAMPLE: 3587876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587877 3587878

Parameter	Units	50369908012		3587877		3587878		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Dissolved Organic Carbon	mg/L	3.6	10	10	10	13.3	13.0	98	95	80-120	2	20

MATRIX SPIKE SAMPLE: 3587879

Parameter	Units	50369975001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.6	10	10.8	92	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch: 784970 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3591284 Matrix: Water
 Associated Lab Samples: 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/16/24 15:23	

LABORATORY CONTROL SAMPLE: 3591285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591286 3591287

Parameter	Units	50369976002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.7	10	10	9.5	9.5	78	79	80-120	1	20	M3

MATRIX SPIKE SAMPLE: 3591288

Parameter	Units	50369982001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.3	10	9.0	77	80-120	M0

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-2S **Lab ID: 50369976001** Collected: 04/05/24 11:00 Received: 04/05/24 13:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.124 ± 0.297 (0.575) C:NA T:90%	pCi/L	04/19/24 15:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.151 ± 0.369 (0.820) C:87% T:83%	pCi/L	04/22/24 15:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.275 ± 0.666 (1.40)	pCi/L	04/26/24 11:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-2I **Lab ID: 50369976002** Collected: 04/05/24 11:05 Received: 04/05/24 13:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.351 ± 0.586 (1.02) C:NA T:88%	pCi/L	04/19/24 15:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.540 ± 0.421 (0.836) C:86% T:83%	pCi/L	04/22/24 15:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.891 ± 1.01 (1.86)	pCi/L	04/26/24 11:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-2D **Lab ID: 50369976003** Collected: 04/05/24 10:20 Received: 04/05/24 13:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.612 ± 0.592 (0.919) C:NA T:84%	pCi/L	04/19/24 15:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.769 ± 0.397 (0.698) C:94% T:79%	pCi/L	04/22/24 15:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.38 ± 0.989 (1.62)	pCi/L	04/26/24 11:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-3S	Lab ID: 50369976004	Collected: 04/05/24 10:05	Received: 04/05/24 13:00	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.256 ± 0.435 (0.767) C:NA T:84%	pCi/L	04/19/24 15:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.0741 ± 0.358 (0.815) C:80% T:84%	pCi/L	04/22/24 15:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.330 ± 0.793 (1.58)	pCi/L	04/26/24 11:33	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: MW-12S **Lab ID: 50369976005** Collected: 04/05/24 10:15 Received: 04/05/24 13:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.241 ± 0.443 (0.791) C:NA T:96%	pCi/L	04/19/24 15:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.0811 ± 0.355 (0.807) C:86% T:81%	pCi/L	04/22/24 15:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.322 ± 0.798 (1.60)	pCi/L	04/26/24 11:33	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Sample: DUP 3 **Lab ID: 50369976006** Collected: 04/05/24 08:00 Received: 04/05/24 13:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.117 ± 0.511 (1.06) C:NA T:96%	pCi/L	04/19/24 15:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.229 ± 0.367 (0.796) C:89% T:81%	pCi/L	04/22/24 15:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.229 ± 0.878 (1.86)	pCi/L	04/26/24 11:33	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch:	661207	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: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3220431 Matrix: Water

Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.287 (0.623) C:NA T:84%	pCi/L	04/19/24 15:44	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

QC Batch: 661208

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: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

METHOD BLANK: 3220432

Matrix: Water

Associated Lab Samples: 50369976001, 50369976002, 50369976003, 50369976004, 50369976005, 50369976006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.470 ± 0.387 (0.772) C:86% T:76%	pCi/L	04/22/24 15:48	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369976001	MW-2S	EPA 9056	784368		
50369976002	MW-2I	EPA 9056	784368		
50369976003	MW-2D	EPA 9056	784368		
50369976004	MW-3S	EPA 9056	784368		
50369976005	MW-12S	EPA 9056	784368		
50369976006	DUP 3	EPA 9056	784368		
50369976001	MW-2S	EPA 3010	783841	EPA 6010	784668
50369976002	MW-2I	EPA 3010	783841	EPA 6010	784668
50369976003	MW-2D	EPA 3010	783841	EPA 6010	784668
50369976004	MW-3S	EPA 3010	783841	EPA 6010	784668
50369976005	MW-12S	EPA 3010	783841	EPA 6010	784668
50369976006	DUP 3	EPA 3010	783841	EPA 6010	784668
50369976001	MW-2S	EPA 3010	783851	EPA 6010	784622
50369976002	MW-2I	EPA 3010	783851	EPA 6010	784622
50369976003	MW-2D	EPA 3010	783851	EPA 6010	784622
50369976004	MW-3S	EPA 3010	783851	EPA 6010	784622
50369976005	MW-12S	EPA 3010	783851	EPA 6010	784622
50369976006	DUP 3	EPA 3010	783851	EPA 6010	784622
50369976001	MW-2S	EPA 200.2	783955	EPA 6020	784168
50369976002	MW-2I	EPA 200.2	783955	EPA 6020	784168
50369976003	MW-2D	EPA 200.2	783955	EPA 6020	784168
50369976004	MW-3S	EPA 200.2	783955	EPA 6020	784168
50369976005	MW-12S	EPA 200.2	783955	EPA 6020	784168
50369976006	DUP 3	EPA 200.2	783955	EPA 6020	784168
50369976001	MW-2S	EPA 7470	784498	EPA 7470	784803
50369976002	MW-2I	EPA 7470	784498	EPA 7470	784803
50369976003	MW-2D	EPA 7470	784498	EPA 7470	784803
50369976004	MW-3S	EPA 7470	784498	EPA 7470	784803
50369976005	MW-12S	EPA 7470	784498	EPA 7470	784803
50369976006	DUP 3	EPA 7470	784498	EPA 7470	784803
50369976001	MW-2S	EPA 903.1	661207		
50369976002	MW-2I	EPA 903.1	661207		
50369976003	MW-2D	EPA 903.1	661207		
50369976004	MW-3S	EPA 903.1	661207		
50369976005	MW-12S	EPA 903.1	661207		
50369976006	DUP 3	EPA 903.1	661207		
50369976001	MW-2S	EPA 904.0	661208		
50369976002	MW-2I	EPA 904.0	661208		
50369976003	MW-2D	EPA 904.0	661208		
50369976004	MW-3S	EPA 904.0	661208		
50369976005	MW-12S	EPA 904.0	661208		
50369976006	DUP 3	EPA 904.0	661208		
50369976001	MW-2S	Total Radium Calculation	664839		
50369976002	MW-2I	Total Radium Calculation	664839		
50369976003	MW-2D	Total Radium Calculation	664839		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369976004	MW-3S	Total Radium Calculation	664839		
50369976005	MW-12S	Total Radium Calculation	664839		
50369976006	DUP 3	Total Radium Calculation	664839		
50369976001	MW-2S	SM 2320B	784155		
50369976002	MW-2I	SM 2320B	784155		
50369976003	MW-2D	SM 2320B	784155		
50369976004	MW-3S	SM 2320B	784155		
50369976005	MW-12S	SM 2320B	784155		
50369976006	DUP 3	SM 2320B	784155		
50369976001	MW-2S	SM 2540C	784227		
50369976002	MW-2I	SM 2540C	784227		
50369976003	MW-2D	SM 2540C	784227		
50369976004	MW-3S	SM 2540C	784227		
50369976005	MW-12S	SM 2540C	784227		
50369976006	DUP 3	SM 2540C	784227		
50369976001	MW-2S	SM 4500-H+B	785574		
50369976002	MW-2I	SM 4500-H+B	785574		
50369976003	MW-2D	SM 4500-H+B	785574		
50369976004	MW-3S	SM 4500-H+B	785655		
50369976005	MW-12S	SM 4500-H+B	785655		
50369976006	DUP 3	SM 4500-H+B	785655		
50369976001	MW-2S	EPA 353.2	783770		
50369976002	MW-2I	EPA 353.2	783770		
50369976003	MW-2D	EPA 353.2	783770		
50369976004	MW-3S	EPA 353.2	783770		
50369976005	MW-12S	EPA 353.2	783770		
50369976006	DUP 3	EPA 353.2	783770		
50369976001	MW-2S	SM 5310C	784256		
50369976002	MW-2I	SM 5310C	784970		
50369976003	MW-2D	SM 5310C	784970		
50369976004	MW-3S	SM 5310C	784970		
50369976005	MW-12S	SM 5310C	784970		
50369976006	DUP 3	SM 5310C	784970		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Form

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/terms>

WO#: 50369976



50369976

**Section A
Required Client Information:**

Company: Atlas Indianapolis	Address: 7988 Centerpoint Drive Suite 100, Indianapolis, IN 46256	Email: mark.breting@oneatlas.com
Phone: 317-313-8306	Fax:	Requested Due Date:

**Section B
Required Project Information:**

Report To: Mark Breting	Copy To:	Purchase Order #:
Project Name: Eagle Valley April 2024	Project #: PI R1	

**Section C
Invoice Information:**

Attention: Accounts Payable - Paula Sedar	Company Name: Atlas Indianapolis
Address:	Pace Quote:
Pace Project Manager: will.statz@pacelabs.com	Pace Profile #: 10498/56

Regulatory Agency:
State / Location:
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left) CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Tot. Metals 6010/6020/7470	Diss metals by 6010	TDS by 2540C	DOC by 5310	Alkalinity / pH / Ferrous Fe	Nitrate by 353.2	C. F. SO4 by 9056		Rad 226/228 + SUM to Pitt
				DATE	TIME	DATE	TIME																				
1	MW-2S		WTG	4/15/24	1100			8	3	1	4														001		
2	MW-2I				1105																				002		
3	MW-2D				1020																				003		
4	MW-3S				1005																				004		
5	MW-12S				1015																				005		
6	MW-2I DUP 3				-																				006		
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NO2/NO3 has a SH time of 48 hours	Mohammed Bazlamit	4/15/24	1300	Rullerman	4-5-24	13:00	1.1 y N y
6020 - Be, Co, As, Se, Sb, Ba, Tl (7)							0.2 y N y
6010 - B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li (12), 7470							
6010 Dis - Mo							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Mohammed Bazlamit	DATE Signed: 4/15/2024				
SIGNATURE of SAMPLER:					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 4-5-24 15:55

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(if yes) Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H** (H)

4. Cooler Temperature(s): 1.1/1.1 0.2/0.2

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO3</u>	<input checked="" type="checkbox"/>		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>17:15</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Each TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Sample Container Count

** Place a RED dot on containers

that are out of conformance **

COC Line Item	WGUFU	MeOH (only)	VIALS						AMBER GLASS						PLASTIC						OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc							
		SBS	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B		BP3Z	CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black			
		DI	R																																
1													1			2	1	2	1	1											WT	✓	✓		
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Miscellaneous	
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	Syringe Kit	LL Cr+6 sampling kit
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore Kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	GN	General Container
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can (air sample)
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	WT	Water
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	SL	Solid Solid
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	OL:	Oil
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	WP:	Wipe



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50369978

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50369978

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50369978001	MW-18S	Water	04/04/24 10:00	04/05/24 14:55
50369978002	MW-18I	Water	04/04/24 10:37	04/05/24 14:55
50369978003	MW-18D	Water	04/04/24 11:20	04/05/24 14:55
50369978004	MW-19S	Water	04/04/24 12:20	04/05/24 14:55
50369978005	MW-19I	Water	04/04/24 13:00	04/05/24 14:55
50369978006	MW-19D	Water	04/04/24 13:50	04/05/24 14:55
50369978007	Dup-7	Water	04/04/24 08:00	04/05/24 14:55
50369978008	Dup-8	Water	04/04/24 08:00	04/05/24 14:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50369978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369978001	MW-18S	EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50369978002	MW-18I	EPA 9056	KBB
EPA 6010	ELK			12	PASI-I
EPA 6010	NWB			1	PASI-I
EPA 6020	CAW			7	PASI-I
EPA 7470	ILP			1	PASI-I
EPA 903.1	CLM			1	PASI-PA
EPA 904.0	JJS			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50369978003	MW-18D			EPA 9056	KBB
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369978004	MW-19S	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50369978005	MW-19I	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50369978006	MW-19D	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369978007	Dup-7	SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50369978008	Dup-8	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369978001	MW-18S					
EPA 9056	Chloride	37.8	mg/L	2.5	04/11/24 14:43	
EPA 9056	Fluoride	0.13	mg/L	0.10	04/11/24 14:25	
EPA 9056	Sulfate	115	mg/L	2.5	04/11/24 14:43	
EPA 6010	Boron	119	ug/L	100	04/12/24 11:33	
EPA 6010	Calcium	102000	ug/L	1000	04/12/24 11:33	
EPA 6010	Magnesium	22000	ug/L	1000	04/12/24 11:33	
EPA 6010	Molybdenum	14.6	ug/L	10.0	04/12/24 11:33	
EPA 6010	Potassium	2540	ug/L	1000	04/12/24 11:33	
EPA 6010	Sodium	27100	ug/L	1000	04/12/24 11:33	
EPA 6010	Molybdenum, Dissolved	14.2	ug/L	10.0	04/12/24 10:18	
EPA 6020	Barium	44.7	ug/L	1.0	04/11/24 00:37	
EPA 6020	Selenium	10.8	ug/L	1.0	04/11/24 00:37	
EPA 903.1	Radium-226	-0.296 ± 0.480 (1.07) C:NA T:80%	pCi/L		04/29/24 14:59	
EPA 904.0	Radium-228	-0.0309 ± 0.348 (0.817) C:76% T:81%	pCi/L		04/22/24 12:17	
Total Radium Calculation	Total Radium	0.000 ± 0.828 (1.89)	pCi/L		04/30/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	231	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	231	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	431	mg/L	10.0	04/09/24 11:06	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/18/24 16:32	H3
EPA 353.2	Nitrogen, Nitrate	1.6	mg/L	0.10	04/06/24 01:06	
SM 5310C	Dissolved Organic Carbon	1.9	mg/L	1.0	04/16/24 17:01	
50369978002	MW-18I					
EPA 9056	Chloride	57.4	mg/L	2.5	04/12/24 02:41	
EPA 9056	Sulfate	115	mg/L	2.5	04/12/24 02:41	
EPA 6010	Boron	467	ug/L	100	04/12/24 11:34	
EPA 6010	Calcium	110000	ug/L	1000	04/12/24 11:34	
EPA 6010	Lithium	35.5	ug/L	20.0	04/12/24 11:34	
EPA 6010	Magnesium	26700	ug/L	1000	04/12/24 11:34	
EPA 6010	Manganese	11.8	ug/L	10.0	04/12/24 11:34	
EPA 6010	Molybdenum	54.0	ug/L	10.0	04/12/24 11:34	
EPA 6010	Potassium	4200	ug/L	1000	04/12/24 11:34	
EPA 6010	Sodium	40200	ug/L	1000	04/12/24 11:34	
EPA 6010	Molybdenum, Dissolved	52.3	ug/L	10.0	04/12/24 10:20	
EPA 6020	Barium	95.5	ug/L	1.0	04/11/24 00:40	
EPA 6020	Selenium	2.9	ug/L	1.0	04/11/24 00:40	
EPA 903.1	Radium-226	0.167 ± 0.524 (0.971) C:NA T:85%	pCi/L		04/29/24 14:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369978002	MW-18I					
EPA 904.0	Radium-228	0.365 ± 0.344 (0.705) C:81% T:86%	pCi/L		04/22/24 12:18	
Total Radium Calculation	Total Radium	0.532 ± 0.868 (1.68)	pCi/L		04/30/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	285	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	285	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	500	mg/L	10.0	04/09/24 11:06	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/18/24 16:32	H3
EPA 353.2	Nitrogen, Nitrate	0.95	mg/L	0.10	04/06/24 01:15	
SM 5310C	Dissolved Organic Carbon	1.1	mg/L	1.0	04/16/24 17:31	
50369978003	MW-18D					
EPA 9056	Chloride	168	mg/L	2.5	04/12/24 03:17	
EPA 9056	Sulfate	193	mg/L	2.5	04/12/24 03:17	
EPA 6010	Boron	4360	ug/L	100	04/12/24 11:38	
EPA 6010	Calcium	118000	ug/L	1000	04/12/24 11:38	
EPA 6010	Iron	782	ug/L	100	04/12/24 11:38	
EPA 6010	Lithium	116	ug/L	20.0	04/12/24 11:38	
EPA 6010	Magnesium	22500	ug/L	1000	04/12/24 11:38	
EPA 6010	Manganese	505	ug/L	10.0	04/12/24 11:38	
EPA 6010	Molybdenum	159	ug/L	10.0	04/12/24 11:38	
EPA 6010	Potassium	8030	ug/L	1000	04/12/24 11:38	
EPA 6010	Sodium	95000	ug/L	1000	04/12/24 11:38	
EPA 6010	Molybdenum, Dissolved	155	ug/L	10.0	04/12/24 10:21	
EPA 6020	Arsenic	1.2	ug/L	1.0	04/11/24 00:43	
EPA 6020	Barium	119	ug/L	1.0	04/11/24 00:43	
EPA 903.1	Radium-226	0.670 ± 0.603 (0.935) C:NA T:84%	pCi/L		04/29/24 14:59	
EPA 904.0	Radium-228	1.33 ± 0.546 (0.891) C:80% T:75%	pCi/L		04/22/24 12:18	
Total Radium Calculation	Total Radium	2.00 ± 1.15 (1.83)	pCi/L		04/30/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	210	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	210	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	688	mg/L	10.0	04/09/24 11:07	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/18/24 16:33	H3
50369978004	MW-19S					
EPA 9056	Chloride	12.9	mg/L	0.25	04/12/24 03:35	
EPA 9056	Sulfate	12.4	mg/L	0.25	04/12/24 03:35	
EPA 6010	Boron	311	ug/L	100	04/12/24 11:40	
EPA 6010	Calcium	107000	ug/L	1000	04/12/24 11:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369978004	MW-19S					
EPA 6010	Iron	1610	ug/L	100	04/12/24 11:40	
EPA 6010	Magnesium	27900	ug/L	1000	04/12/24 11:40	
EPA 6010	Manganese	196	ug/L	10.0	04/12/24 11:40	
EPA 6010	Potassium	2050	ug/L	1000	04/12/24 11:40	
EPA 6010	Sodium	8580	ug/L	1000	04/12/24 11:40	
EPA 6020	Arsenic	2.1	ug/L	1.0	04/11/24 01:17	
EPA 6020	Barium	35.8	ug/L	1.0	04/11/24 01:17	
EPA 6020	Cobalt	1.5	ug/L	1.0	04/11/24 01:17	
EPA 903.1	Radium-226	-0.243 ± 0.437 (0.945) C:NA T:95%	pCi/L		04/29/24 14:59	
EPA 904.0	Radium-228	0.378 ± 0.404 (0.844) C:76% T:82%	pCi/L		04/22/24 12:18	
Total Radium Calculation	Total Radium	0.378 ± 0.841 (1.79)	pCi/L		04/30/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	336	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	336	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	375	mg/L	10.0	04/10/24 12:11	
SM 4500-H+B	pH at 25 Degrees C	6.7	Std. Units	0.10	04/18/24 16:34	H3
EPA 353.2	Nitrogen, Nitrate	7.1	mg/L	0.20	04/06/24 01:30	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/16/24 17:52	
50369978005	MW-19I					
EPA 9056	Chloride	55.9	mg/L	2.5	04/12/24 06:17	
EPA 9056	Sulfate	71.6	mg/L	2.5	04/12/24 06:17	
EPA 6010	Boron	3380	ug/L	100	04/12/24 11:41	
EPA 6010	Calcium	80200	ug/L	1000	04/12/24 11:41	
EPA 6010	Iron	100	ug/L	100	04/12/24 11:41	
EPA 6010	Lithium	85.4	ug/L	20.0	04/12/24 11:41	
EPA 6010	Magnesium	16900	ug/L	1000	04/12/24 11:41	
EPA 6010	Manganese	64.0	ug/L	10.0	04/12/24 11:41	
EPA 6010	Molybdenum	151	ug/L	10.0	04/12/24 11:41	
EPA 6010	Potassium	5980	ug/L	1000	04/12/24 11:41	
EPA 6010	Sodium	63600	ug/L	1000	04/12/24 11:41	
EPA 6010	Molybdenum, Dissolved	146	ug/L	10.0	04/12/24 10:24	
EPA 6020	Barium	56.5	ug/L	1.0	04/11/24 00:53	
EPA 903.1	Radium-226	0.132 ± 0.654 (1.12) C:NA T:89%	pCi/L		04/29/24 14:59	
EPA 904.0	Radium-228	0.851 ± 0.439 (0.772) C:79% T:77%	pCi/L		04/22/24 12:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369978005	MW-19I					
Total Radium Calculation	Total Radium	0.983 ± 1.09 (1.89)	pCi/L		04/30/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	262	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	262	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	432	mg/L	10.0	04/10/24 12:11	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/18/24 16:35	H3
50369978006	MW-19D					
EPA 9056	Chloride	118	mg/L	2.5	04/12/24 06:53	
EPA 9056	Sulfate	173	mg/L	2.5	04/12/24 06:53	
EPA 6010	Boron	5180	ug/L	100	04/12/24 11:43	
EPA 6010	Calcium	102000	ug/L	1000	04/12/24 11:43	
EPA 6010	Iron	145	ug/L	100	04/12/24 11:43	
EPA 6010	Lithium	48.2	ug/L	20.0	04/12/24 11:43	
EPA 6010	Magnesium	22600	ug/L	1000	04/12/24 11:43	
EPA 6010	Manganese	334	ug/L	10.0	04/12/24 11:43	
EPA 6010	Molybdenum	26.2	ug/L	10.0	04/12/24 11:43	
EPA 6010	Potassium	4120	ug/L	1000	04/12/24 11:43	
EPA 6010	Sodium	97500	ug/L	1000	04/12/24 11:43	
EPA 6010	Molybdenum, Dissolved	26.5	ug/L	10.0	04/12/24 10:26	
EPA 6020	Barium	42.5	ug/L	1.0	04/11/24 01:20	
EPA 903.1	Radium-226	0.0916 ± 0.507 (0.892)	pCi/L		04/29/24 14:59	
EPA 904.0	Radium-228	C:NA T:82% 0.662 ± 0.390 (0.721)	pCi/L		04/22/24 12:18	
		C:80% T:85%				
Total Radium Calculation	Total Radium	0.754 ± 0.897 (1.61)	pCi/L		04/30/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	248	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	638	mg/L	10.0	04/10/24 12:11	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/18/24 16:36	H3
50369978007	Dup-7					
EPA 9056	Chloride	166	mg/L	2.5	04/12/24 08:04	
EPA 9056	Fluoride	0.10	mg/L	0.10	04/12/24 07:46	
EPA 9056	Sulfate	191	mg/L	2.5	04/12/24 08:04	
EPA 6010	Boron	4350	ug/L	100	04/12/24 11:44	
EPA 6010	Calcium	118000	ug/L	1000	04/12/24 11:44	
EPA 6010	Iron	775	ug/L	100	04/12/24 11:44	
EPA 6010	Lithium	115	ug/L	20.0	04/12/24 11:44	
EPA 6010	Magnesium	22400	ug/L	1000	04/12/24 11:44	
EPA 6010	Manganese	503	ug/L	10.0	04/12/24 11:44	
EPA 6010	Molybdenum	158	ug/L	10.0	04/12/24 11:44	
EPA 6010	Potassium	8040	ug/L	1000	04/12/24 11:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369978007	Dup-7					
EPA 6010	Sodium	94700	ug/L	1000	04/12/24 11:44	
EPA 6010	Molybdenum, Dissolved	157	ug/L	10.0	04/12/24 10:27	
EPA 6020	Arsenic	1.2	ug/L	1.0	04/11/24 01:23	
EPA 6020	Barium	116	ug/L	1.0	04/11/24 01:23	
EPA 903.1	Radium-226	0.110 ± 0.648 (1.20) C:NA	pCi/L		04/29/24 14:59	
EPA 904.0	Radium-228	T:84% 1.43 ± 0.532 (0.803) C:82% T:78%	pCi/L		04/22/24 12:18	
Total Radium Calculation	Total Radium	1.54 ± 1.18 (2.00)	pCi/L		04/30/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	209	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	209	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	717	mg/L	10.0	04/10/24 12:11	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/18/24 16:37	H3
50369978008	Dup-8					
EPA 9056	Chloride	116	mg/L	2.5	04/12/24 08:58	
EPA 9056	Sulfate	168	mg/L	2.5	04/12/24 08:58	
EPA 6010	Boron	5150	ug/L	100	04/12/24 11:45	
EPA 6010	Calcium	100000	ug/L	1000	04/12/24 11:45	
EPA 6010	Iron	114	ug/L	100	04/12/24 11:45	
EPA 6010	Lithium	53.6	ug/L	20.0	04/12/24 11:45	
EPA 6010	Magnesium	22100	ug/L	1000	04/12/24 11:45	
EPA 6010	Manganese	334	ug/L	10.0	04/12/24 11:45	
EPA 6010	Molybdenum	28.8	ug/L	10.0	04/12/24 11:45	
EPA 6010	Potassium	4120	ug/L	1000	04/12/24 11:45	
EPA 6010	Sodium	96900	ug/L	1000	04/12/24 11:45	
EPA 6010	Molybdenum, Dissolved	27.0	ug/L	10.0	04/12/24 10:29	
EPA 6020	Barium	43.2	ug/L	1.0	04/11/24 01:33	
EPA 903.1	Radium-226	0.607 ± 0.565 (0.881) C:NA T:86%	pCi/L		04/29/24 15:13	
EPA 904.0	Radium-228	0.982 ± 0.449 (0.763) C:81% T:84%	pCi/L		04/22/24 12:18	
Total Radium Calculation	Total Radium	1.59 ± 1.01 (1.64)	pCi/L		04/30/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	250	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	250	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	642	mg/L	10.0	04/10/24 12:12	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/18/24 16:37	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50369978

Sample: MW-18S **Lab ID: 50369978001** Collected: 04/04/24 10:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	37.8	mg/L	2.5	0.67	10		04/11/24 14:43	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.017	1		04/11/24 14:25	16984-48-8	
Sulfate	115	mg/L	2.5	1.9	10		04/11/24 14:43	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	119	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:33	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:33	7440-43-9	
Calcium	102000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:33	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:33	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:33	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:33	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:33	7439-93-2	
Magnesium	22000	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:33	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:33	7439-96-5	
Molybdenum	14.6	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:33	7439-98-7	
Potassium	2540	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:33	7440-09-7	
Sodium	27100	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:33	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	14.2	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:18	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 00:37	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 00:37	7440-38-2	
Barium	44.7	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 00:37	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 00:37	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 00:37	7440-48-4	
Selenium	10.8	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 00:37	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 00:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:28	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	231	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	231	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-18S		Lab ID: 50369978001		Collected: 04/04/24 10:00	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	431	mg/L	10.0	10.0	1		04/09/24 11:06		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/18/24 16:32		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.6	mg/L	0.10	0.013	1		04/06/24 01:06	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.9	mg/L	1.0	0.25	1		04/16/24 17:01		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-181 Lab ID: 50369978002 Collected: 04/04/24 10:37 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	57.4	mg/L	2.5	0.67	10		04/12/24 02:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/12/24 02:24	16984-48-8	
Sulfate	115	mg/L	2.5	1.9	10		04/12/24 02:41	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	467	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:34	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:34	7440-43-9	
Calcium	110000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:34	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:34	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:34	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:34	7439-92-1	
Lithium	35.5	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:34	7439-93-2	
Magnesium	26700	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:34	7439-95-4	
Manganese	11.8	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:34	7439-96-5	
Molybdenum	54.0	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:34	7439-98-7	
Potassium	4200	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:34	7440-09-7	
Sodium	40200	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:34	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	52.3	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:20	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 00:40	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 00:40	7440-38-2	
Barium	95.5	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 00:40	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 00:40	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 00:40	7440-48-4	
Selenium	2.9	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 00:40	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 00:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:30	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	285	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	285	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-18I		Lab ID: 50369978002		Collected: 04/04/24 10:37	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	500	mg/L	10.0	10.0	1		04/09/24 11:06		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/18/24 16:32		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.95	mg/L	0.10	0.013	1		04/06/24 01:15	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.1	mg/L	1.0	0.25	1		04/16/24 17:31		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-18D Lab ID: 50369978003 Collected: 04/04/24 11:20 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	168	mg/L	2.5	0.67	10		04/12/24 03:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/12/24 02:59	16984-48-8	
Sulfate	193	mg/L	2.5	1.9	10		04/12/24 03:17	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	4360	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:38	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:38	7440-43-9	
Calcium	118000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:38	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:38	7440-47-3	
Iron	782	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:38	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:38	7439-92-1	
Lithium	116	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:38	7439-93-2	
Magnesium	22500	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:38	7439-95-4	
Manganese	505	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:38	7439-96-5	
Molybdenum	159	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:38	7439-98-7	
Potassium	8030	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:38	7440-09-7	
Sodium	95000	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:38	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	155	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:21	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 00:43	7440-36-0	
Arsenic	1.2	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 00:43	7440-38-2	
Barium	119	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 00:43	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 00:43	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 00:43	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 00:43	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 00:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:33	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	210	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	210	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-18D		Lab ID: 50369978003		Collected: 04/04/24 11:20	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	688	mg/L	10.0	10.0	1		04/09/24 11:07		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/18/24 16:33		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:21	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/16/24 17:42		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-19S Lab ID: 50369978004 Collected: 04/04/24 12:20 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	12.9	mg/L	0.25	0.067	1		04/12/24 03:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/12/24 03:35	16984-48-8	
Sulfate	12.4	mg/L	0.25	0.19	1		04/12/24 03:35	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	311	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:40	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:40	7440-43-9	
Calcium	107000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:40	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:40	7440-47-3	
Iron	1610	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:40	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:40	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:40	7439-93-2	
Magnesium	27900	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:40	7439-95-4	
Manganese	196	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:40	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:40	7439-98-7	
Potassium	2050	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:40	7440-09-7	
Sodium	8580	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:40	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:23	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 01:17	7440-36-0	
Arsenic	2.1	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 01:17	7440-38-2	
Barium	35.8	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 01:17	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 01:17	7440-41-7	
Cobalt	1.5	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 01:17	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 01:17	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 01:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:35	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	336	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	336	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-19S		Lab ID: 50369978004		Collected: 04/04/24 12:20	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	375	mg/L	10.0	10.0	1		04/10/24 12:11		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.7	Std. Units	0.10	0.10	1		04/18/24 16:34		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	7.1	mg/L	0.20	0.026	2		04/06/24 01:30	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/16/24 17:52		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-191 Lab ID: 50369978005 Collected: 04/04/24 13:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	55.9	mg/L	2.5	0.67	10		04/12/24 06:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/12/24 05:59	16984-48-8	
Sulfate	71.6	mg/L	2.5	1.9	10		04/12/24 06:17	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	3380	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:41	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:41	7440-43-9	
Calcium	80200	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:41	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:41	7440-47-3	
Iron	100	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:41	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:41	7439-92-1	
Lithium	85.4	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:41	7439-93-2	
Magnesium	16900	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:41	7439-95-4	
Manganese	64.0	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:41	7439-96-5	
Molybdenum	151	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:41	7439-98-7	
Potassium	5980	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:41	7440-09-7	
Sodium	63600	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:41	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	146	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:24	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 00:53	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 00:53	7440-38-2	
Barium	56.5	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 00:53	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 00:53	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 00:53	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 00:53	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 00:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:38	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	262	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	262	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-19I		Lab ID: 50369978005		Collected: 04/04/24 13:00	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	432	mg/L	10.0	10.0	1		04/10/24 12:11		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		04/18/24 16:35		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:39	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/16/24 18:02		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-19D Lab ID: 50369978006 Collected: 04/04/24 13:50 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	118	mg/L	2.5	0.67	10		04/12/24 06:53	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/12/24 06:35	16984-48-8	
Sulfate	173	mg/L	2.5	1.9	10		04/12/24 06:53	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	5180	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:43	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:43	7440-43-9	
Calcium	102000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:43	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:43	7440-47-3	
Iron	145	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:43	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:43	7439-92-1	
Lithium	48.2	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:43	7439-93-2	
Magnesium	22600	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:43	7439-95-4	
Manganese	334	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:43	7439-96-5	
Molybdenum	26.2	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:43	7439-98-7	
Potassium	4120	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:43	7440-09-7	
Sodium	97500	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:43	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	26.5	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:26	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 01:20	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 01:20	7440-38-2	
Barium	42.5	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 01:20	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 01:20	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 01:20	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 01:20	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 01:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:40	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	248	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-19D Lab ID: 50369978006 Collected: 04/04/24 13:50 Received: 04/05/24 14:55 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	638	mg/L	10.0	10.0	1		04/10/24 12:11		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/18/24 16:36		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:52	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/16/24 18:16		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: Dup-7 Lab ID: 50369978007 Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	166	mg/L	2.5	0.67	10		04/12/24 08:04	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.017	1		04/12/24 07:46	16984-48-8	
Sulfate	191	mg/L	2.5	1.9	10		04/12/24 08:04	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	4350	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:44	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:44	7440-43-9	
Calcium	118000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:44	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:44	7440-47-3	
Iron	775	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:44	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:44	7439-92-1	
Lithium	115	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:44	7439-93-2	
Magnesium	22400	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:44	7439-95-4	
Manganese	503	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:44	7439-96-5	
Molybdenum	158	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:44	7439-98-7	
Potassium	8040	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:44	7440-09-7	
Sodium	94700	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:44	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	157	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:27	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 01:23	7440-36-0	
Arsenic	1.2	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 01:23	7440-38-2	
Barium	116	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 01:23	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 01:23	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 01:23	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 01:23	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 01:23	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:43	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	209	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	209	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: Dup-7 Lab ID: 50369978007 Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	717	mg/L	10.0	10.0	1		04/10/24 12:11		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		04/18/24 16:37		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 00:55	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/16/24 18:27		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: Dup-8 **Lab ID: 50369978008** Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	116	mg/L	2.5	0.67	10		04/12/24 08:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/12/24 08:40	16984-48-8	
Sulfate	168	mg/L	2.5	1.9	10		04/12/24 08:58	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	5150	ug/L	100	6.2	1	04/11/24 21:48	04/12/24 11:45	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/11/24 21:48	04/12/24 11:45	7440-43-9	
Calcium	100000	ug/L	1000	67.7	1	04/11/24 21:48	04/12/24 11:45	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/11/24 21:48	04/12/24 11:45	7440-47-3	
Iron	114	ug/L	100	30.0	1	04/11/24 21:48	04/12/24 11:45	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/11/24 21:48	04/12/24 11:45	7439-92-1	
Lithium	53.6	ug/L	20.0	6.8	1	04/11/24 21:48	04/12/24 11:45	7439-93-2	
Magnesium	22100	ug/L	1000	33.6	1	04/11/24 21:48	04/12/24 11:45	7439-95-4	
Manganese	334	ug/L	10.0	1.8	1	04/11/24 21:48	04/12/24 11:45	7439-96-5	
Molybdenum	28.8	ug/L	10.0	0.78	1	04/11/24 21:48	04/12/24 11:45	7439-98-7	
Potassium	4120	ug/L	1000	97.8	1	04/11/24 21:48	04/12/24 11:45	7440-09-7	
Sodium	96900	ug/L	1000	54.8	1	04/11/24 21:48	04/12/24 11:45	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	27.0	ug/L	10.0	1.1	1	04/11/24 21:38	04/12/24 10:29	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 01:33	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 01:33	7440-38-2	
Barium	43.2	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 01:33	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 01:33	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 01:33	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 01:33	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 01:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:45	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	250	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	250	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: Dup-8 Lab ID: 50369978008 Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	642	mg/L	10.0	10.0	1		04/10/24 12:12		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/18/24 16:37		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:00	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C									
Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/16/24 18:38		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch:	783754	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008		

METHOD BLANK:	3586029	Matrix:	Water
Associated Lab Samples:	50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/12/24 01:48	
Fluoride	mg/L	ND	0.10	0.017	04/12/24 01:48	
Sulfate	mg/L	ND	0.25	0.19	04/12/24 01:48	

LABORATORY CONTROL SAMPLE: 3586030						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	96	80-120	
Fluoride	mg/L	1	0.99	99	80-120	
Sulfate	mg/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586031												3586032	
Parameter	Units	50369978004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	12.9	2.5	2.5	15.1	15.1	87	88	80-120	0	15		
Fluoride	mg/L	ND	1	1	1.1	1.1	106	108	80-120	2	15		
Sulfate	mg/L	12.4	5	5	17.3	17.3	98	98	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch:	784830	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

METHOD BLANK:	3590888	Matrix:	Water
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Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/16/24 08:23	

LABORATORY CONTROL SAMPLE: 3590889						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3590890												3590891	
Parameter	Units	50370083005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Mercury	ug/L	ND	5	5	4.9	5.0	97	98	75-125	2	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch:	783841	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

METHOD BLANK:	3586575	Matrix:	Water
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Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/12/24 11:07	
Cadmium	ug/L	ND	2.0	0.60	04/12/24 11:07	
Calcium	ug/L	ND	1000	67.7	04/12/24 11:07	
Chromium	ug/L	ND	10.0	0.42	04/12/24 11:07	
Iron	ug/L	ND	100	30.0	04/12/24 11:07	
Lead	ug/L	ND	10.0	2.5	04/12/24 11:07	
Lithium	ug/L	ND	20.0	6.8	04/12/24 11:07	
Magnesium	ug/L	ND	1000	33.6	04/12/24 11:07	
Manganese	ug/L	ND	10.0	1.8	04/12/24 11:07	
Molybdenum	ug/L	ND	10.0	0.78	04/12/24 11:07	
Potassium	ug/L	ND	1000	97.8	04/12/24 11:07	
Sodium	ug/L	ND	1000	54.8	04/12/24 11:07	

LABORATORY CONTROL SAMPLE: 3586576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	898	90	80-120	
Cadmium	ug/L	1000	925	93	80-120	
Calcium	ug/L	10000	9610	96	80-120	
Chromium	ug/L	1000	946	95	80-120	
Iron	ug/L	10000	9310	93	80-120	
Lead	ug/L	1000	902	90	80-120	
Lithium	ug/L	1000	962	96	80-120	
Magnesium	ug/L	10000	9100	91	80-120	
Manganese	ug/L	1000	952	95	80-120	
Molybdenum	ug/L	1000	957	96	80-120	
Potassium	ug/L	10000	9310	93	80-120	
Sodium	ug/L	10000	9150	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586577 3586578

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50369975002 Result	Spike Conc.	Spike Conc.	Result							Result
Boron	ug/L	ND	1000	1000	995	996	90	90	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	904	905	90	90	75-125	0	20	
Calcium	ug/L	70100	10000	10000	78700	78300	87	82	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586577 3586578													
Parameter	Units	50369975002		MS	MSD	3586578		% Rec	% Rec	% Rec	Max		
		Result	Conc.	Spike	Conc.	MS	MSD					MS	MSD
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium	ug/L	ND	1000	1000	1000	908	913	91	91	75-125	1	20	
Iron	ug/L	952	10000	10000	10000	9920	9950	90	90	75-125	0	20	
Lead	ug/L	ND	1000	1000	1000	852	858	85	86	75-125	1	20	
Lithium	ug/L	31.1	1000	1000	1000	983	986	95	96	75-125	0	20	
Magnesium	ug/L	17800	10000	10000	10000	26400	26300	86	85	75-125	0	20	
Manganese	ug/L	164	1000	1000	1000	1070	1080	91	91	75-125	0	20	
Molybdenum	ug/L	36.9	1000	1000	1000	969	977	93	94	75-125	1	20	
Potassium	ug/L	7180	10000	10000	10000	16300	16500	92	93	75-125	1	20	
Sodium	ug/L	57700	10000	10000	10000	66600	66400	89	88	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50369978

QC Batch: 783851 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

METHOD BLANK: 3586622 Matrix: Water
 Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	04/12/24 09:49	

LABORATORY CONTROL SAMPLE: 3586623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	949	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586624 3586625

Parameter	Units	50369975001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum, Dissolved	ug/L	92.1	1000	1000	1040	1040	95	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch:	784037	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008		

METHOD BLANK:	3587088	Matrix:	Water
Associated Lab Samples:	50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	04/10/24 19:12	
Arsenic	ug/L	ND	1.0	0.075	04/10/24 19:12	
Barium	ug/L	ND	1.0	0.077	04/10/24 19:12	
Beryllium	ug/L	ND	0.20	0.035	04/10/24 19:12	
Cobalt	ug/L	ND	1.0	0.046	04/10/24 19:12	
Selenium	ug/L	ND	1.0	0.20	04/10/24 19:12	
Thallium	ug/L	ND	1.0	0.040	04/10/24 19:12	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.9	105	80-120	
Arsenic	ug/L	40	39.4	99	80-120	
Barium	ug/L	40	40.5	101	80-120	
Beryllium	ug/L	40	40.9	102	80-120	
Cobalt	ug/L	40	41.3	103	80-120	
Selenium	ug/L	40	40.3	101	80-120	
Thallium	ug/L	40	41.3	103	80-120	

Parameter	Units	3587090		3587091		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	ug/L	ND	40	40	41.8	41.7	104	104	75-125	0	20
Arsenic	ug/L	ND	40	40	39.2	39.4	98	98	75-125	0	20
Barium	ug/L	56.5	40	40	97.1	97.6	101	103	75-125	0	20
Beryllium	ug/L	ND	40	40	40.7	40.8	102	102	75-125	0	20
Cobalt	ug/L	ND	40	40	38.9	38.9	97	97	75-125	0	20
Selenium	ug/L	ND	40	40	38.9	38.8	97	96	75-125	0	20
Thallium	ug/L	ND	40	40	41.8	42.2	104	105	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch:	784367	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008		

METHOD BLANK:	3588317	Matrix:	Water
Associated Lab Samples:	50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/10/24 20:57	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/10/24 20:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/10/24 20:57	

LABORATORY CONTROL SAMPLE: 3588318						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	90-110	

SAMPLE DUPLICATE: 3588319						
Parameter	Units	50370255003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	239	245	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	239	245	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3588320						
Parameter	Units	50370047002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	218	222	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	218	222	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch: 784017

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369978001, 50369978002, 50369978003

METHOD BLANK: 3587047

Matrix: Water

Associated Lab Samples: 50369978001, 50369978002, 50369978003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/09/24 10:59	

LABORATORY CONTROL SAMPLE: 3587048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	80-120	

SAMPLE DUPLICATE: 3587049

Parameter	Units	50369908005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	94	100	6	10	

SAMPLE DUPLICATE: 3587050

Parameter	Units	50369962002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1910	1820	5	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch: 784226 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

METHOD BLANK: 3587797 Matrix: Water
 Associated Lab Samples: 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/10/24 12:10	

LABORATORY CONTROL SAMPLE: 3587798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	80-120	

SAMPLE DUPLICATE: 3587799

Parameter	Units	50369978004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	375	379	1	10	

SAMPLE DUPLICATE: 3587800

Parameter	Units	50369984003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	545	565	4	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch: 785655

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

SAMPLE DUPLICATE: 3594044

Parameter	Units	50369976004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.3	6.4	1	2	H3

SAMPLE DUPLICATE: 3594045

Parameter	Units	50369982003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch: 783769 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978007, 50369978008

METHOD BLANK: 3586087 Matrix: Water
 Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978007, 50369978008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/06/24 00:51	

LABORATORY CONTROL SAMPLE: 3586088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586089 3586090

Parameter	Units	50369978007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	1.0	1.0	103	103	90-110	1	20	

MATRIX SPIKE SAMPLE: 3586091

Parameter	Units	50369982010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	103	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch: 783770

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369978006

METHOD BLANK: 3586092

Matrix: Water

Associated Lab Samples: 50369978006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/06/24 01:45	

LABORATORY CONTROL SAMPLE: 3586093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586094 3586095

Parameter	Units	50369946005		3586094		3586095		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Nitrogen, Nitrate	mg/L	8.7	5	5	13.9	13.8	103	103	90-110	0	20

MATRIX SPIKE SAMPLE: 3586096

Parameter	Units	50369975003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	104	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch: 784970 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

METHOD BLANK: 3591284 Matrix: Water
 Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/16/24 15:23	

LABORATORY CONTROL SAMPLE: 3591285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591286 3591287

Parameter	Units	50369976002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.7	10	10	9.5	9.5	78	79	80-120	1	20	M3

MATRIX SPIKE SAMPLE: 3591288

Parameter	Units	50369982001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L		1.3	10	9.0	77	80-120 M0

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-18S **Lab ID: 50369978001** Collected: 04/04/24 10:00 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.296 ± 0.480 (1.07) C:NA T:80%	pCi/L	04/29/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.0309 ± 0.348 (0.817) C:76% T:81%	pCi/L	04/22/24 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.828 (1.89)	pCi/L	04/30/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-181 **Lab ID: 50369978002** Collected: 04/04/24 10:37 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.167 ± 0.524 (0.971) C:NA T:85%	pCi/L	04/29/24 14:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.365 ± 0.344 (0.705) C:81% T:86%	pCi/L	04/22/24 12:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.532 ± 0.868 (1.68)	pCi/L	04/30/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-18D **Lab ID: 50369978003** Collected: 04/04/24 11:20 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.670 ± 0.603 (0.935) C:NA T:84%	pCi/L	04/29/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.33 ± 0.546 (0.891) C:80% T:75%	pCi/L	04/22/24 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.00 ± 1.15 (1.83)	pCi/L	04/30/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-19S **Lab ID: 50369978004** Collected: 04/04/24 12:20 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.243 ± 0.437 (0.945) C:NA T:95%	pCi/L	04/29/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.378 ± 0.404 (0.844) C:76% T:82%	pCi/L	04/22/24 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.378 ± 0.841 (1.79)	pCi/L	04/30/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-191 **Lab ID: 50369978005** Collected: 04/04/24 13:00 Received: 04/05/24 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.132 ± 0.654 (1.12) C:NA T:89%	pCi/L	04/29/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.851 ± 0.439 (0.772) C:79% T:77%	pCi/L	04/22/24 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.983 ± 1.09 (1.89)	pCi/L	04/30/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: MW-19D **Lab ID: 50369978006** Collected: 04/04/24 13:50 Received: 04/05/24 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0916 ± 0.507 (0.892) C:NA T:82%	pCi/L	04/29/24 14:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.662 ± 0.390 (0.721) C:80% T:85%	pCi/L	04/22/24 12:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.754 ± 0.897 (1.61)	pCi/L	04/30/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: Dup-7 **Lab ID: 50369978007** Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.110 ± 0.648 (1.20) C:NA T:84%	pCi/L	04/29/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.43 ± 0.532 (0.803) C:82% T:78%	pCi/L	04/22/24 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.54 ± 1.18 (2.00)	pCi/L	04/30/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Sample: Dup-8 **Lab ID: 50369978008** Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.607 ± 0.565 (0.881) C:NA T:86%	pCi/L	04/29/24 15:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.982 ± 0.449 (0.763) C:81% T:84%	pCi/L	04/22/24 12:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.59 ± 1.01 (1.64)	pCi/L	04/30/24 15:07	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch:	661544	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: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

METHOD BLANK: 3222287 Matrix: Water

Associated Lab Samples: 50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0871 ± 0.199 (0.118) C:NA T:88%	pCi/L	04/29/24 14:59	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

QC Batch:	661545	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:	50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008		

METHOD BLANK:	3222288	Matrix:	Water
Associated Lab Samples:	50369978001, 50369978002, 50369978003, 50369978004, 50369978005, 50369978006, 50369978007, 50369978008		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.292 ± 0.471 (1.02) C:69% T:70%	pCi/L	04/22/24 12:17	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369978001	MW-18S	EPA 9056	783754		
50369978002	MW-18I	EPA 9056	783754		
50369978003	MW-18D	EPA 9056	783754		
50369978004	MW-19S	EPA 9056	783754		
50369978005	MW-19I	EPA 9056	783754		
50369978006	MW-19D	EPA 9056	783754		
50369978007	Dup-7	EPA 9056	783754		
50369978008	Dup-8	EPA 9056	783754		
50369978001	MW-18S	EPA 3010	783841	EPA 6010	784668
50369978002	MW-18I	EPA 3010	783841	EPA 6010	784668
50369978003	MW-18D	EPA 3010	783841	EPA 6010	784668
50369978004	MW-19S	EPA 3010	783841	EPA 6010	784668
50369978005	MW-19I	EPA 3010	783841	EPA 6010	784668
50369978006	MW-19D	EPA 3010	783841	EPA 6010	784668
50369978007	Dup-7	EPA 3010	783841	EPA 6010	784668
50369978008	Dup-8	EPA 3010	783841	EPA 6010	784668
50369978001	MW-18S	EPA 3010	783851	EPA 6010	784622
50369978002	MW-18I	EPA 3010	783851	EPA 6010	784622
50369978003	MW-18D	EPA 3010	783851	EPA 6010	784622
50369978004	MW-19S	EPA 3010	783851	EPA 6010	784622
50369978005	MW-19I	EPA 3010	783851	EPA 6010	784622
50369978006	MW-19D	EPA 3010	783851	EPA 6010	784622
50369978007	Dup-7	EPA 3010	783851	EPA 6010	784622
50369978008	Dup-8	EPA 3010	783851	EPA 6010	784622
50369978001	MW-18S	EPA 200.2	784037	EPA 6020	784356
50369978002	MW-18I	EPA 200.2	784037	EPA 6020	784356
50369978003	MW-18D	EPA 200.2	784037	EPA 6020	784356
50369978004	MW-19S	EPA 200.2	784037	EPA 6020	784356
50369978005	MW-19I	EPA 200.2	784037	EPA 6020	784356
50369978006	MW-19D	EPA 200.2	784037	EPA 6020	784356
50369978007	Dup-7	EPA 200.2	784037	EPA 6020	784356
50369978008	Dup-8	EPA 200.2	784037	EPA 6020	784356
50369978001	MW-18S	EPA 7470	784830	EPA 7470	785038
50369978002	MW-18I	EPA 7470	784830	EPA 7470	785038
50369978003	MW-18D	EPA 7470	784830	EPA 7470	785038
50369978004	MW-19S	EPA 7470	784830	EPA 7470	785038
50369978005	MW-19I	EPA 7470	784830	EPA 7470	785038
50369978006	MW-19D	EPA 7470	784830	EPA 7470	785038
50369978007	Dup-7	EPA 7470	784830	EPA 7470	785038
50369978008	Dup-8	EPA 7470	784830	EPA 7470	785038
50369978001	MW-18S	EPA 903.1	661544		
50369978002	MW-18I	EPA 903.1	661544		
50369978003	MW-18D	EPA 903.1	661544		
50369978004	MW-19S	EPA 903.1	661544		
50369978005	MW-19I	EPA 903.1	661544		
50369978006	MW-19D	EPA 903.1	661544		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369978007	Dup-7	EPA 903.1	661544		
50369978008	Dup-8	EPA 903.1	661544		
50369978001	MW-18S	EPA 904.0	661545		
50369978002	MW-18I	EPA 904.0	661545		
50369978003	MW-18D	EPA 904.0	661545		
50369978004	MW-19S	EPA 904.0	661545		
50369978005	MW-19I	EPA 904.0	661545		
50369978006	MW-19D	EPA 904.0	661545		
50369978007	Dup-7	EPA 904.0	661545		
50369978008	Dup-8	EPA 904.0	661545		
50369978001	MW-18S	Total Radium Calculation	665527		
50369978002	MW-18I	Total Radium Calculation	665527		
50369978003	MW-18D	Total Radium Calculation	665527		
50369978004	MW-19S	Total Radium Calculation	665527		
50369978005	MW-19I	Total Radium Calculation	665527		
50369978006	MW-19D	Total Radium Calculation	665527		
50369978007	Dup-7	Total Radium Calculation	665527		
50369978008	Dup-8	Total Radium Calculation	665527		
50369978001	MW-18S	SM 2320B	784367		
50369978002	MW-18I	SM 2320B	784367		
50369978003	MW-18D	SM 2320B	784367		
50369978004	MW-19S	SM 2320B	784367		
50369978005	MW-19I	SM 2320B	784367		
50369978006	MW-19D	SM 2320B	784367		
50369978007	Dup-7	SM 2320B	784367		
50369978008	Dup-8	SM 2320B	784367		
50369978001	MW-18S	SM 2540C	784017		
50369978002	MW-18I	SM 2540C	784017		
50369978003	MW-18D	SM 2540C	784017		
50369978004	MW-19S	SM 2540C	784226		
50369978005	MW-19I	SM 2540C	784226		
50369978006	MW-19D	SM 2540C	784226		
50369978007	Dup-7	SM 2540C	784226		
50369978008	Dup-8	SM 2540C	784226		
50369978001	MW-18S	SM 4500-H+B	785655		
50369978002	MW-18I	SM 4500-H+B	785655		
50369978003	MW-18D	SM 4500-H+B	785655		
50369978004	MW-19S	SM 4500-H+B	785655		
50369978005	MW-19I	SM 4500-H+B	785655		
50369978006	MW-19D	SM 4500-H+B	785655		
50369978007	Dup-7	SM 4500-H+B	785655		
50369978008	Dup-8	SM 4500-H+B	785655		
50369978001	MW-18S	EPA 353.2	783769		
50369978002	MW-18I	EPA 353.2	783769		
50369978003	MW-18D	EPA 353.2	783769		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50369978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369978004	MW-19S	EPA 353.2	783769		
50369978005	MW-19I	EPA 353.2	783769		
50369978006	MW-19D	EPA 353.2	783770		
50369978007	Dup-7	EPA 353.2	783769		
50369978008	Dup-8	EPA 353.2	783769		
50369978001	MW-18S	SM 5310C	784970		
50369978002	MW-18I	SM 5310C	784970		
50369978003	MW-18D	SM 5310C	784970		
50369978004	MW-19S	SM 5310C	784970		
50369978005	MW-19I	SM 5310C	784970		
50369978006	MW-19D	SM 5310C	784970		
50369978007	Dup-7	SM 5310C	784970		
50369978008	Dup-8	SM 5310C	784970		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: LT 4/5/24 1610

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**
 4. Cooler Temperature(s): 2.5/2.3 2.0/1.8
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO₃</u>	X		Circle: <u>HNO₃ (<2)</u> <u>H₂SO₄ (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form.	X		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace Wisconsin Sulfide?			X
Containers Intact?:	X		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Present?		X	
Extra labels on Terracore Vials? (soils only)		X	Trip Blank Custody Seals?:			X

COMMENTS:



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50369979

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50369979

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50369979001	MW-15S	Water	04/04/24 13:15	04/05/24 14:55
50369979002	MW-15I	Water	04/04/24 14:25	04/05/24 14:55
50369979003	DUP-5	Water	04/04/24 08:00	04/05/24 14:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369979001	MW-15S	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50369979002	MW-15I	EPA 9056	KBB
EPA 6010	JPK			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	ILP			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50369979003	DUP-5			EPA 9056	KBB
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50369979

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369979001	MW-15S					
EPA 9056	Chloride	29.3	mg/L	2.5	04/10/24 15:41	
EPA 9056	Fluoride	0.29	mg/L	0.10	04/10/24 15:25	
EPA 9056	Sulfate	85.0	mg/L	2.5	04/10/24 15:41	
EPA 6010	Boron	1870	ug/L	100	04/12/24 22:36	
EPA 6010	Calcium	117000	ug/L	1000	04/12/24 22:36	
EPA 6010	Iron	381	ug/L	100	04/12/24 22:36	
EPA 6010	Lithium	69.5	ug/L	20.0	04/12/24 22:36	
EPA 6010	Magnesium	29400	ug/L	1000	04/12/24 22:36	
EPA 6010	Manganese	32.5	ug/L	10.0	04/12/24 22:36	
EPA 6010	Molybdenum	69.3	ug/L	10.0	04/12/24 22:36	
EPA 6010	Potassium	6880	ug/L	1000	04/12/24 22:36	
EPA 6010	Sodium	33500	ug/L	1000	04/12/24 22:36	
EPA 6010	Molybdenum, Dissolved	67.7	ug/L	10.0	04/12/24 23:39	
EPA 6020	Arsenic	1.1	ug/L	1.0	04/12/24 03:45	
EPA 6020	Barium	83.6	ug/L	1.0	04/12/24 03:45	
EPA 6020	Selenium	4.8	ug/L	1.0	04/12/24 03:45	
EPA 903.1	Radium-226	0.376 ± 0.578 (0.994)	pCi/L		04/25/24 13:00	
EPA 904.0	Radium-228	C:NA T:88% 0.636 ± 0.386 (0.695)	pCi/L		04/19/24 16:09	
		C:74% T:84%				
Total Radium Calculation	Total Radium	1.01 ± 0.964 (1.69)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	340	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	340	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	505	mg/L	10.0	04/10/24 12:12	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/18/24 16:38	H3
EPA 353.2	Nitrogen, Nitrate	5.6	mg/L	0.20	04/06/24 02:31	
50369979002	MW-15I					
EPA 9056	Chloride	66.5	mg/L	2.5	04/10/24 16:15	
EPA 9056	Fluoride	0.25	mg/L	0.10	04/10/24 15:58	
EPA 9056	Sulfate	196	mg/L	2.5	04/10/24 16:15	
EPA 6010	Boron	4330	ug/L	100	04/12/24 22:43	
EPA 6010	Calcium	124000	ug/L	1000	04/12/24 22:43	
EPA 6010	Lithium	134	ug/L	20.0	04/12/24 22:43	
EPA 6010	Magnesium	28500	ug/L	1000	04/12/24 22:43	
EPA 6010	Manganese	79.4	ug/L	10.0	04/12/24 22:43	
EPA 6010	Molybdenum	182	ug/L	10.0	04/12/24 22:43	
EPA 6010	Potassium	12600	ug/L	1000	04/12/24 22:43	
EPA 6010	Sodium	88900	ug/L	1000	04/12/24 22:43	
EPA 6010	Molybdenum, Dissolved	186	ug/L	10.0	04/12/24 23:47	
EPA 6020	Barium	75.8	ug/L	1.0	04/12/24 03:49	
EPA 6020	Cobalt	1.2	ug/L	1.0	04/12/24 03:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369979002	MW-15I					
EPA 903.1	Radium-226	1.07 ± 0.839 (1.29) C:NA T:86%	pCi/L		04/25/24 13:00	
EPA 904.0	Radium-228	0.464 ± 0.371 (0.732) C:78% T:84%	pCi/L		04/19/24 16:09	
Total Radium Calculation	Total Radium	1.53 ± 1.21 (2.02)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	352	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	352	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	710	mg/L	10.0	04/10/24 12:12	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/18/24 16:38	H3
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	04/16/24 18:58	
50369979003	DUP-5					
EPA 9056	Chloride	66.6	mg/L	2.5	04/10/24 17:26	
EPA 9056	Fluoride	0.27	mg/L	0.10	04/10/24 17:08	
EPA 9056	Sulfate	198	mg/L	2.5	04/10/24 17:26	
EPA 6010	Boron	4400	ug/L	100	04/12/24 22:45	
EPA 6010	Calcium	125000	ug/L	1000	04/12/24 22:45	
EPA 6010	Lithium	135	ug/L	20.0	04/12/24 22:45	
EPA 6010	Magnesium	28600	ug/L	1000	04/12/24 22:45	
EPA 6010	Manganese	81.0	ug/L	10.0	04/12/24 22:45	
EPA 6010	Molybdenum	186	ug/L	10.0	04/12/24 22:45	
EPA 6010	Potassium	12600	ug/L	1000	04/12/24 22:45	
EPA 6010	Sodium	90400	ug/L	1000	04/12/24 22:45	
EPA 6010	Molybdenum, Dissolved	187	ug/L	10.0	04/12/24 23:48	
EPA 6020	Barium	74.1	ug/L	1.0	04/12/24 03:52	
EPA 6020	Cobalt	1.1	ug/L	1.0	04/12/24 03:52	
EPA 903.1	Radium-226	1.33 ± 0.668 (0.727) C:NA T:83%	pCi/L		04/25/24 13:14	
EPA 904.0	Radium-228	0.830 ± 0.458 (0.814) C:72% T:82%	pCi/L		04/19/24 16:09	
Total Radium Calculation	Total Radium	2.16 ± 1.13 (1.54)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	349	mg/L	10.0	04/10/24 20:57	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	349	mg/L	10.0	04/10/24 20:57	
SM 2540C	Total Dissolved Solids	712	mg/L	10.0	04/10/24 12:12	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/18/24 16:39	H3
EPA 353.2	Nitrogen, Nitrate	0.17	mg/L	0.10	04/06/24 01:02	
SM 5310C	Dissolved Organic Carbon	1.1	mg/L	1.0	04/16/24 19:09	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50369979

Sample: MW-15S		Lab ID: 50369979001		Collected: 04/04/24 13:15	Received: 04/05/24 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Chloride	29.3	mg/L	2.5	0.67	10		04/10/24 15:41	16887-00-6		
Fluoride	0.29	mg/L	0.10	0.017	1		04/10/24 15:25	16984-48-8		
Sulfate	85.0	mg/L	2.5	1.9	10		04/10/24 15:41	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis								
Boron	1870	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:36	7440-42-8		
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:36	7440-43-9		
Calcium	117000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:36	7440-70-2		
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:36	7440-47-3		
Iron	381	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:36	7439-89-6		
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:36	7439-92-1		
Lithium	69.5	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:36	7439-93-2		
Magnesium	29400	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:36	7439-95-4		
Manganese	32.5	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:36	7439-96-5		
Molybdenum	69.3	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:36	7439-98-7		
Potassium	6880	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:36	7440-09-7		
Sodium	33500	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:36	7440-23-5		
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis								
Molybdenum, Dissolved	67.7	ug/L	10.0	0.78	1	04/12/24 07:57	04/12/24 23:39	7439-98-7		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 07:16	04/12/24 03:45	7440-36-0		
Arsenic	1.1	ug/L	1.0	0.064	1	04/10/24 07:16	04/12/24 03:45	7440-38-2		
Barium	83.6	ug/L	1.0	0.067	1	04/10/24 07:16	04/12/24 03:45	7440-39-3		
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 07:16	04/12/24 07:08	7440-41-7		
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 07:16	04/12/24 03:45	7440-48-4		
Selenium	4.8	ug/L	1.0	0.23	1	04/10/24 07:16	04/12/24 03:45	7782-49-2		
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 07:16	04/12/24 03:45	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:53	7439-97-6		
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	340	mg/L	10.0	10.0	1		04/10/24 20:57			
Alkalinity,Bicarbonate (CaCO3)	340	mg/L	10.0	10.0	1		04/10/24 20:57			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Sample: MW-15S Lab ID: 50369979001 Collected: 04/04/24 13:15 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	505	mg/L	10.0	10.0	1		04/10/24 12:12		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/18/24 16:38		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	5.6	mg/L	0.20	0.026	2		04/06/24 02:31	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/16/24 18:48		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50369979

Sample: MW-15I **Lab ID: 50369979002** Collected: 04/04/24 14:25 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	66.5	mg/L	2.5	0.67	10		04/10/24 16:15	16887-00-6	
Fluoride	0.25	mg/L	0.10	0.017	1		04/10/24 15:58	16984-48-8	
Sulfate	196	mg/L	2.5	1.9	10		04/10/24 16:15	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	4330	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:43	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:43	7440-43-9	
Calcium	124000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:43	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:43	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:43	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:43	7439-92-1	
Lithium	134	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:43	7439-93-2	
Magnesium	28500	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:43	7439-95-4	
Manganese	79.4	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:43	7439-96-5	
Molybdenum	182	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:43	7439-98-7	
Potassium	12600	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:43	7440-09-7	
Sodium	88900	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:43	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	186	ug/L	10.0	0.78	1	04/12/24 07:57	04/12/24 23:47	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 07:16	04/12/24 03:49	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/10/24 07:16	04/12/24 03:49	7440-38-2	
Barium	75.8	ug/L	1.0	0.067	1	04/10/24 07:16	04/12/24 03:49	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 07:16	04/12/24 07:11	7440-41-7	
Cobalt	1.2	ug/L	1.0	0.024	1	04/10/24 07:16	04/12/24 03:49	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/10/24 07:16	04/12/24 03:49	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 07:16	04/12/24 03:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:55	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	352	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	352	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Sample: MW-15I Lab ID: 50369979002 Collected: 04/04/24 14:25 Received: 04/05/24 14:55 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	710	mg/L	10.0	10.0	1		04/10/24 12:12		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		04/18/24 16:38		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:58	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.0	mg/L	1.0	0.25	1		04/16/24 18:58		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Sample: DUP-5 Lab ID: 50369979003 Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	66.6	mg/L	2.5	0.67	10		04/10/24 17:26	16887-00-6	
Fluoride	0.27	mg/L	0.10	0.017	1		04/10/24 17:08	16984-48-8	
Sulfate	198	mg/L	2.5	1.9	10		04/10/24 17:26	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	4400	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:45	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:45	7440-43-9	
Calcium	125000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:45	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:45	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:45	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:45	7439-92-1	
Lithium	135	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:45	7439-93-2	
Magnesium	28600	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:45	7439-95-4	
Manganese	81.0	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:45	7439-96-5	
Molybdenum	186	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:45	7439-98-7	
Potassium	12600	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:45	7440-09-7	
Sodium	90400	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:45	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	187	ug/L	10.0	0.78	1	04/12/24 07:57	04/12/24 23:48	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 07:16	04/12/24 03:52	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/10/24 07:16	04/12/24 03:52	7440-38-2	
Barium	74.1	ug/L	1.0	0.067	1	04/10/24 07:16	04/12/24 03:52	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 07:16	04/12/24 07:15	7440-41-7	
Cobalt	1.1	ug/L	1.0	0.024	1	04/10/24 07:16	04/12/24 03:52	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/10/24 07:16	04/12/24 03:52	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 07:16	04/12/24 03:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 08:57	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	349	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Bicarbonate (CaCO3)	349	mg/L	10.0	10.0	1		04/10/24 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/10/24 20:57		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Sample: DUP-5		Lab ID: 50369979003		Collected: 04/04/24 08:00	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	712	mg/L	10.0	10.0	1		04/10/24 12:12		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/18/24 16:39		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.17	mg/L	0.10	0.013	1		04/06/24 01:02	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.1	mg/L	1.0	0.25	1		04/16/24 19:09		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch: 783753 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369979001, 50369979002, 50369979003

METHOD BLANK: 3586018 Matrix: Water

Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/10/24 18:02	
Fluoride	mg/L	ND	0.10	0.017	04/10/24 18:02	
Sulfate	mg/L	ND	0.25	0.19	04/10/24 18:02	

LABORATORY CONTROL SAMPLE: 3586019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	1.0	103	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586020 3586021

Parameter	Units	50369962002		3586021		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
Chloride	mg/L	46.4	25	25	71.4	71.3	100	100	80-120	0	15		
Fluoride	mg/L	1.1	1	1	2.2	2.2	106	111	80-120	2	15		
Sulfate	mg/L	1210	500	500	1680	1670	94	93	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch:	784830	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369979001, 50369979002, 50369979003

METHOD BLANK: 3590888 Matrix: Water
 Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/16/24 08:23	

LABORATORY CONTROL SAMPLE: 3590889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3590890 3590891

Parameter	Units	3590890		3590891		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370083005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	ND	5	5	4.9	5.0	97	98	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch:	783844	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369979001, 50369979002, 50369979003

METHOD BLANK: 3586589 Matrix: Water

Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/12/24 22:34	
Cadmium	ug/L	ND	2.0	0.60	04/12/24 22:34	
Calcium	ug/L	ND	1000	67.7	04/12/24 22:34	
Chromium	ug/L	ND	10.0	0.42	04/12/24 22:34	
Iron	ug/L	ND	100	30.0	04/12/24 22:34	
Lead	ug/L	ND	10.0	2.5	04/12/24 22:34	
Lithium	ug/L	ND	20.0	6.8	04/12/24 22:34	
Magnesium	ug/L	ND	1000	33.6	04/12/24 22:34	
Manganese	ug/L	ND	10.0	1.8	04/12/24 22:34	
Molybdenum	ug/L	ND	10.0	0.78	04/12/24 22:34	
Potassium	ug/L	ND	1000	97.8	04/12/24 22:34	
Sodium	ug/L	ND	1000	54.8	04/12/24 22:34	

LABORATORY CONTROL SAMPLE: 3586590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	957	96	80-120	
Cadmium	ug/L	1000	997	100	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lead	ug/L	1000	970	97	80-120	
Lithium	ug/L	1000	1030	103	80-120	
Magnesium	ug/L	10000	9660	97	80-120	
Manganese	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Sodium	ug/L	10000	9800	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586591 3586592

Parameter	Units	50369979001		3586592		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	ug/L	1870	1000	2800	2860	94	99	75-125	2	20	
Cadmium	ug/L	ND	1000	993	1000	99	100	75-125	1	20	
Calcium	ug/L	117000	10000	123000	125000	63	85	75-125	2	20 P6	
Chromium	ug/L	ND	1000	988	993	99	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586591 3586592													
Parameter	Units	50369979001		MS	MSD	3586592		% Rec	% Rec	% Rec	Max		
		Result	Conc.	Spike	Conc.	MS	MSD					MS	MSD
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Iron	ug/L	381	10000	10000	10000	10100	10100	97	97	75-125	0	20	
Lead	ug/L	ND	1000	1000	1000	935	942	93	94	75-125	1	20	
Lithium	ug/L	69.5	1000	1000	1000	1100	1100	103	103	75-125	0	20	
Magnesium	ug/L	29400	10000	10000	10000	38000	38500	86	91	75-125	1	20	
Manganese	ug/L	32.5	1000	1000	1000	1020	1020	98	98	75-125	0	20	
Molybdenum	ug/L	69.3	1000	1000	1000	1080	1090	101	102	75-125	1	20	
Potassium	ug/L	6880	10000	10000	10000	16900	17000	101	102	75-125	1	20	
Sodium	ug/L	33500	10000	10000	10000	42300	43000	88	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch:	783852	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369979001, 50369979002, 50369979003		

METHOD BLANK: 3586626 Matrix: Water
 Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/12/24 23:36	

LABORATORY CONTROL SAMPLE: 3586627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586628 3586629

Parameter	Units	3586628		3586629		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Molybdenum, Dissolved	ug/L	67.7	1000	1080	1080	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50369979

QC Batch: 784137 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369979001, 50369979002, 50369979003

METHOD BLANK: 3587440 Matrix: Water
 Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	04/11/24 03:45	
Arsenic	ug/L	ND	1.0	0.064	04/11/24 03:45	
Barium	ug/L	ND	1.0	0.067	04/11/24 03:45	
Beryllium	ug/L	ND	0.20	0.026	04/11/24 03:45	
Cobalt	ug/L	ND	1.0	0.024	04/11/24 03:45	
Selenium	ug/L	ND	1.0	0.23	04/11/24 03:45	
Thallium	ug/L	ND	1.0	0.042	04/11/24 03:45	

LABORATORY CONTROL SAMPLE: 3587441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.8	104	80-120	
Arsenic	ug/L	40	39.7	99	80-120	
Barium	ug/L	40	38.7	97	80-120	
Beryllium	ug/L	40	42.3	106	80-120	
Cobalt	ug/L	40	40.5	101	80-120	
Selenium	ug/L	40	40.0	100	80-120	
Thallium	ug/L	40	42.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587442 3587443

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50369952002 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	ug/L	ND	40	40	42.0	42.2	105	105	75-125	0	20		
Arsenic	ug/L	ND	40	40	38.9	38.8	97	96	75-125	0	20		
Barium	ug/L	255	40	40	294	288	98	84	75-125	2	20	E	
Beryllium	ug/L	ND	40	40	40.5	39.8	101	99	75-125	2	20		
Cobalt	ug/L	1.4	40	40	39.7	39.7	96	96	75-125	0	20		
Selenium	ug/L	ND	40	40	38.9	38.5	97	96	75-125	1	20		
Thallium	ug/L	ND	40	40	42.7	41.8	107	105	75-125	2	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch: 784367

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369979001, 50369979002, 50369979003

METHOD BLANK: 3588317

Matrix: Water

Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/10/24 20:57	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/10/24 20:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/10/24 20:57	

LABORATORY CONTROL SAMPLE: 3588318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	90-110	

SAMPLE DUPLICATE: 3588319

Parameter	Units	50370255003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	239	245	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	239	245	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3588320

Parameter	Units	50370047002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	218	222	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	218	222	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch:	784226	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369979001, 50369979002, 50369979003		

METHOD BLANK: 3587797 Matrix: Water
 Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/10/24 12:10	

LABORATORY CONTROL SAMPLE: 3587798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	80-120	

SAMPLE DUPLICATE: 3587799

Parameter	Units	50369978004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	375	379	1	10	

SAMPLE DUPLICATE: 3587800

Parameter	Units	50369984003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	545	565	4	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch: 785655

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369979001, 50369979002, 50369979003

SAMPLE DUPLICATE: 3594044

Parameter	Units	50369976004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.3	6.4	1	2	H3

SAMPLE DUPLICATE: 3594045

Parameter	Units	50369982003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch: 783769

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369979001, 50369979003

METHOD BLANK: 3586087

Matrix: Water

Associated Lab Samples: 50369979001, 50369979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/06/24 00:51	

LABORATORY CONTROL SAMPLE: 3586088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586089 3586090

Parameter	Units	50369978007		50369979001		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Nitrate	mg/L	ND	1	1	1.0	1.0	103	103	90-110	1	20

MATRIX SPIKE SAMPLE: 3586091

Parameter	Units	50369982010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	103	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch: 783770	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369979002

METHOD BLANK: 3586092 Matrix: Water

Associated Lab Samples: 50369979002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/06/24 01:45	

LABORATORY CONTROL SAMPLE: 3586093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586094 3586095

Parameter	Units	50369946005		3586094		3586095		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Nitrogen, Nitrate	mg/L	8.7	5	5	13.9	13.8	103	103	90-110	0	20

MATRIX SPIKE SAMPLE: 3586096

Parameter	Units	50369975003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	104	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch:	784970	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369979001, 50369979002, 50369979003		

METHOD BLANK: 3591284 Matrix: Water

Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/16/24 15:23	

LABORATORY CONTROL SAMPLE: 3591285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591286 3591287

Parameter	Units	50369976002		3591286		3591287		% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Dissolved Organic Carbon	mg/L	1.7	10	10	9.5	9.5	78	79	80-120	1	20	M3

MATRIX SPIKE SAMPLE: 3591288

Parameter	Units	50369982001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.3	10	9.0	77	80-120	M0

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Sample: MW-15S **Lab ID: 50369979001** Collected: 04/04/24 13:15 Received: 04/05/24 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.376 ± 0.578 (0.994) C:NA T:88%	pCi/L	04/25/24 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.636 ± 0.386 (0.695) C:74% T:84%	pCi/L	04/19/24 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.01 ± 0.964 (1.69)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Sample: MW-151 **Lab ID: 50369979002** Collected: 04/04/24 14:25 Received: 04/05/24 14:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.07 ± 0.839 (1.29) C:NA T:86%	pCi/L	04/25/24 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.464 ± 0.371 (0.732) C:78% T:84%	pCi/L	04/19/24 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.53 ± 1.21 (2.02)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Sample: DUP-5 **Lab ID: 50369979003** Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.33 ± 0.668 (0.727) C:NA T:83%	pCi/L	04/25/24 13:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.830 ± 0.458 (0.814) C:72% T:82%	pCi/L	04/19/24 16:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.16 ± 1.13 (1.54)	pCi/L	04/26/24 10:41	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch: 661213

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: 50369979001, 50369979002, 50369979003

METHOD BLANK: 3220444

Matrix: Water

Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.122 ± 0.290 (0.712) C:82% T:88%	pCi/L	04/19/24 16:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

QC Batch: 661212

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: 50369979001, 50369979002, 50369979003

METHOD BLANK: 3220443

Matrix: Water

Associated Lab Samples: 50369979001, 50369979002, 50369979003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.379 ± 0.251 (0.114) C:NA T:84%	pCi/L	04/25/24 12:48	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50369979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369979001	MW-15S	EPA 9056	783753		
50369979002	MW-15I	EPA 9056	783753		
50369979003	DUP-5	EPA 9056	783753		
50369979001	MW-15S	EPA 3010	783844	EPA 6010	784751
50369979002	MW-15I	EPA 3010	783844	EPA 6010	784751
50369979003	DUP-5	EPA 3010	783844	EPA 6010	784751
50369979001	MW-15S	EPA 3010	783852	EPA 6010	784752
50369979002	MW-15I	EPA 3010	783852	EPA 6010	784752
50369979003	DUP-5	EPA 3010	783852	EPA 6010	784752
50369979001	MW-15S	EPA 200.2	784137	EPA 6020	784357
50369979002	MW-15I	EPA 200.2	784137	EPA 6020	784357
50369979003	DUP-5	EPA 200.2	784137	EPA 6020	784357
50369979001	MW-15S	EPA 7470	784830	EPA 7470	785038
50369979002	MW-15I	EPA 7470	784830	EPA 7470	785038
50369979003	DUP-5	EPA 7470	784830	EPA 7470	785038
50369979001	MW-15S	EPA 903.1	661212		
50369979002	MW-15I	EPA 903.1	661212		
50369979003	DUP-5	EPA 903.1	661212		
50369979001	MW-15S	EPA 904.0	661213		
50369979002	MW-15I	EPA 904.0	661213		
50369979003	DUP-5	EPA 904.0	661213		
50369979001	MW-15S	Total Radium Calculation	664817		
50369979002	MW-15I	Total Radium Calculation	664817		
50369979003	DUP-5	Total Radium Calculation	664817		
50369979001	MW-15S	SM 2320B	784367		
50369979002	MW-15I	SM 2320B	784367		
50369979003	DUP-5	SM 2320B	784367		
50369979001	MW-15S	SM 2540C	784226		
50369979002	MW-15I	SM 2540C	784226		
50369979003	DUP-5	SM 2540C	784226		
50369979001	MW-15S	SM 4500-H+B	785655		
50369979002	MW-15I	SM 4500-H+B	785655		
50369979003	DUP-5	SM 4500-H+B	785655		
50369979001	MW-15S	EPA 353.2	783769		
50369979002	MW-15I	EPA 353.2	783770		
50369979003	DUP-5	EPA 353.2	783769		
50369979001	MW-15S	SM 5310C	784970		
50369979002	MW-15I	SM 5310C	784970		
50369979003	DUP-5	SM 5310C	784970		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/5/24 1629 MW

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes) Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H
4. Cooler Temperature(s): 3.5 | 3.5 | | |
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	✓		
Short Hold Time Analysis (48 hours or less)? Analysis: nitrate	✓		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	MeOH (only)	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS							PLASTIC							OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide, ZnAc		
				SBS							Red	Yellow	Green	Black																				
				DI							AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9	
1																1		2	1	2	1	1									WT	✓	✓	
2																1		1	1	1	1	1									WT	✓	✓	
3																																		
4																1		2	1	2	1	1									WT	✓	✓	
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

Container Codes

Glass	
DG9H	40mL HCl amber vial
DG9P	40mL TSP amber vial
DG9S	40mL H2SO4 amber vial
DG9T	40mL Na Thio amber vial
DG9U	40mL unpreserved amber vial
VG9H	40mL HCl clear vial
VG9T	40mL Na Thio. clear vial
VG9U	40mL unpreserved clear vial
I	40mL w/hexane wipe vial
WGKU	8oz unpreserved clear jar
WGFU	4oz clear soil jar
JGFU	4oz unpreserved amber wide
CG3H	250mL clear glass HCl
CG3F	250mL clear glass HCl, Field Filter
BG1H	1L HCl clear glass
BG1S	1L H2SO4 clear glass
BG1T	glass
BG1U	1L unpreserved glass
CG3U	250mL Unpres Clear Glass
AG0U	100mL unpres amber glass
AG1H	1L HCl amber glass
AG1S	1L H2SO4 amber glass
AG1T	1L Na Thiosulfate amber glass
AG1U	1liter unpres amber glass
AG2N	500mL HNO3 amber glass
AG2S	500mL H2SO4 amber glass
AG2U	500mL unpres amber glass
AG3S	250mL H2SO4 amber glass
AG3SF	250mL H2SO4 amb glass -field filtered
AG3U	250mL unpres amber glass
AG3B	250mL NaOH amber glass

Plastic	
BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP3R	250mL Unpres. FF SO4/OH buffer
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



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50369982

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50369982001	MW-9S	Water	04/04/24 12:55	04/05/24 14:55
50369982002	MW-9D	Water	04/04/24 11:40	04/05/24 14:55
50369982003	MW-9I	Water	04/04/24 10:00	04/05/24 14:55
50369982004	MW-8S	Water	04/04/24 15:05	04/05/24 14:55
50369982005	MW-3I	Water	04/04/24 11:00	04/05/24 14:55
50369982006	MW-3D	Water	04/04/24 13:30	04/05/24 14:55
50369982007	DUP-2	Water	04/04/24 08:00	04/05/24 14:55
50369982008	MW-6S	Water	04/04/24 11:00	04/05/24 14:55
50369982009	MW-6I	Water	04/04/24 10:05	04/05/24 14:55
50369982010	MW-6D	Water	04/04/24 12:05	04/05/24 14:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369982001	MW-9S	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50369982002	MW-9D	EPA 9056	KBB
EPA 6010	JPK			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	CAW			7	PASI-I
EPA 7470	ILP			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50369982003	MW-9I			EPA 9056	KBB
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369982004	MW-8S	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		50369982005	MW-3I	EPA 353.2	DAW
SM 5310C	YAM			1	PASI-I
EPA 9056	KBB			3	PASI-I
EPA 6010	JPK			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	CAW			7	PASI-I
EPA 7470	ILP			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
50369982006	MW-3D			EPA 353.2	DAW
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369982007	DUP-2	SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
50369982008	MW-6S	SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50369982009	MW-6I	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50369982010	MW-6D	Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	CAW	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369982001	MW-9S					
EPA 9056	Chloride	53.6	mg/L	25.0	04/12/24 09:34	
EPA 9056	Fluoride	0.12	mg/L	0.10	04/12/24 09:16	
EPA 9056	Sulfate	202	mg/L	25.0	04/12/24 09:34	
EPA 6010	Boron	662	ug/L	100	04/12/24 22:46	
EPA 6010	Calcium	154000	ug/L	1000	04/12/24 22:46	
EPA 6010	Magnesium	34200	ug/L	1000	04/12/24 22:46	
EPA 6010	Manganese	13.4	ug/L	10.0	04/12/24 22:46	
EPA 6010	Molybdenum	17.6	ug/L	10.0	04/12/24 22:46	
EPA 6010	Potassium	2850	ug/L	1000	04/12/24 22:46	
EPA 6010	Sodium	42400	ug/L	1000	04/12/24 22:46	
EPA 6010	Molybdenum, Dissolved	18.1	ug/L	10.0	04/12/24 23:50	
EPA 6020	Barium	90.8	ug/L	1.0	04/11/24 01:37	
EPA 6020	Selenium	2.6	ug/L	1.0	04/11/24 01:37	
EPA 903.1	Radium-226	0.259 ± 0.338 (0.558)	pCi/L		04/25/24 12:48	
EPA 904.0	Radium-228	C:NA T:88% 0.497 ± 0.375 (0.734)	pCi/L		04/19/24 16:07	
		C:81% T:83%				
Total Radium Calculation	Total Radium	0.756 ± 0.713 (1.29)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	330	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	330	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	708	mg/L	10.0	04/10/24 12:13	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/18/24 16:39	H3
EPA 353.2	Nitrogen, Nitrate	1.3	mg/L	0.10	04/06/24 01:38	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/16/24 19:45	
50369982002	MW-9D					
EPA 9056	Chloride	57.0	mg/L	2.5	04/12/24 10:10	
EPA 9056	Sulfate	52.6	mg/L	2.5	04/12/24 10:10	
EPA 6010	Calcium	132000	ug/L	1000	04/12/24 22:50	
EPA 6010	Iron	161	ug/L	100	04/12/24 22:50	
EPA 6010	Magnesium	30800	ug/L	1000	04/12/24 22:50	
EPA 6010	Manganese	298	ug/L	10.0	04/12/24 22:50	
EPA 6010	Potassium	2650	ug/L	1000	04/12/24 22:50	
EPA 6010	Sodium	35700	ug/L	1000	04/12/24 22:50	
EPA 6020	Barium	133	ug/L	1.0	04/11/24 01:40	
EPA 903.1	Radium-226	0.815 ± 0.544 (0.699)	pCi/L		04/25/24 12:48	
EPA 904.0	Radium-228	C:NA T:82% 1.10 ± 0.502 (0.845)	pCi/L		04/19/24 16:07	
		C:79% T:82%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369982002	MW-9D					
Total Radium Calculation	Total Radium	1.92 ± 1.05 (1.54)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	399	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	399	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	535	mg/L	10.0	04/10/24 12:14	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/18/24 16:40	H3
SM 5310C	Dissolved Organic Carbon	2.5	mg/L	1.0	04/16/24 20:06	
50369982003	MW-9I					
EPA 9056	Chloride	229	mg/L	2.5	04/12/24 11:22	
EPA 9056	Fluoride	0.30	mg/L	0.10	04/12/24 11:04	
EPA 9056	Sulfate	333	mg/L	2.5	04/12/24 11:22	
EPA 6010	Boron	247	ug/L	100	04/12/24 22:52	
EPA 6010	Calcium	119000	ug/L	1000	04/12/24 22:52	
EPA 6010	Lithium	22.9	ug/L	20.0	04/12/24 22:52	
EPA 6010	Magnesium	31800	ug/L	1000	04/12/24 22:52	
EPA 6010	Manganese	347	ug/L	10.0	04/12/24 22:52	
EPA 6010	Molybdenum	30.7	ug/L	10.0	04/12/24 22:52	
EPA 6010	Potassium	9020	ug/L	1000	04/12/24 22:52	
EPA 6010	Sodium	170000	ug/L	1000	04/12/24 22:52	
EPA 6010	Molybdenum, Dissolved	29.8	ug/L	10.0	04/12/24 23:57	
EPA 6020	Barium	73.5	ug/L	1.0	04/11/24 01:50	
EPA 6020	Cobalt	1.3	ug/L	1.0	04/11/24 01:50	
EPA 903.1	Radium-226	-0.123 ± 0.613 (1.23) C:NA T:86%	pCi/L		04/25/24 12:48	
EPA 904.0	Radium-228	0.913 ± 0.463 (0.809) C:75% T:85%	pCi/L		04/19/24 16:08	
Total Radium Calculation	Total Radium	0.913 ± 1.08 (2.04)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	231	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	231	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	932	mg/L	20.0	04/10/24 12:14	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/18/24 16:42	H3
EPA 353.2	Nitrogen, Nitrate	2.2	mg/L	0.10	04/06/24 01:08	
SM 5310C	Dissolved Organic Carbon	2.4	mg/L	1.0	04/16/24 20:18	
50369982004	MW-8S					
EPA 9056	Chloride	80.4	mg/L	2.5	04/12/24 11:57	
EPA 9056	Fluoride	0.14	mg/L	0.10	04/12/24 11:40	
EPA 9056	Sulfate	271	mg/L	2.5	04/12/24 11:57	
EPA 6010	Boron	570	ug/L	100	04/12/24 22:53	
EPA 6010	Calcium	121000	ug/L	1000	04/12/24 22:53	
EPA 6010	Magnesium	26900	ug/L	1000	04/12/24 22:53	
EPA 6010	Potassium	2350	ug/L	1000	04/12/24 22:53	
EPA 6010	Sodium	40000	ug/L	1000	04/12/24 22:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369982004	MW-8S					
EPA 6010	Molybdenum, Dissolved	19.2	ug/L	10.0	04/12/24 23:58	
EPA 6020	Barium	79.3	ug/L	1.0	04/11/24 01:54	
EPA 6020	Selenium	2.8	ug/L	1.0	04/11/24 01:54	
EPA 903.1	Radium-226	0.623 ± 0.581 (0.899)	pCi/L		04/25/24 12:48	
EPA 904.0	Radium-228	C:NA T:85% 0.732 ± 0.440 (0.820)	pCi/L		04/19/24 16:08	
		C:78% T:85%				
Total Radium Calculation	Total Radium	1.36 ± 1.02 (1.72)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	251	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	251	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	649	mg/L	10.0	04/10/24 12:15	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/19/24 12:46	H3
EPA 353.2	Nitrogen, Nitrate	1.5	mg/L	0.10	04/06/24 02:00	
SM 5310C	Dissolved Organic Carbon	2.0	mg/L	1.0	04/16/24 20:29	
50369982005	MW-3I					
EPA 9056	Chloride	111	mg/L	2.5	04/12/24 12:51	
EPA 9056	Fluoride	0.36	mg/L	0.10	04/12/24 12:33	
EPA 9056	Sulfate	95.8	mg/L	2.5	04/12/24 12:51	
EPA 6010	Calcium	72800	ug/L	1000	04/12/24 22:54	
EPA 6010	Magnesium	22500	ug/L	1000	04/12/24 22:54	
EPA 6010	Manganese	41.5	ug/L	10.0	04/12/24 22:54	
EPA 6010	Molybdenum	42.2	ug/L	10.0	04/12/24 22:54	
EPA 6010	Potassium	5650	ug/L	1000	04/12/24 22:54	
EPA 6010	Sodium	90700	ug/L	1000	04/12/24 22:54	
EPA 6010	Molybdenum, Dissolved	41.8	ug/L	10.0	04/12/24 23:59	
EPA 6020	Barium	71.4	ug/L	1.0	04/11/24 01:57	
EPA 903.1	Radium-226	0.687 ± 0.567 (0.819)	pCi/L		04/25/24 13:00	
EPA 904.0	Radium-228	C:NA T:86% 1.23 ± 0.499 (0.788)	pCi/L		04/19/24 16:08	
		C:82% T:84%				
Total Radium Calculation	Total Radium	1.92 ± 1.07 (1.61)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	232	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	232	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	493	mg/L	10.0	04/10/24 12:15	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/19/24 12:43	H3
SM 5310C	Dissolved Organic Carbon	3.1	mg/L	1.0	04/16/24 21:11	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369982

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369982006	MW-3D					
EPA 9056	Chloride	51.7	mg/L	2.5	04/12/24 13:27	
EPA 9056	Fluoride	0.20	mg/L	0.10	04/12/24 13:09	
EPA 9056	Sulfate	45.0	mg/L	0.25	04/12/24 13:09	
EPA 6010	Boron	121	ug/L	100	04/12/24 22:56	
EPA 6010	Calcium	95400	ug/L	1000	04/12/24 22:56	
EPA 6010	Iron	1410	ug/L	100	04/12/24 22:56	
EPA 6010	Magnesium	31100	ug/L	1000	04/12/24 22:56	
EPA 6010	Manganese	209	ug/L	10.0	04/12/24 22:56	
EPA 6010	Molybdenum	11.4	ug/L	10.0	04/12/24 22:56	
EPA 6010	Potassium	4100	ug/L	1000	04/12/24 22:56	
EPA 6010	Sodium	30600	ug/L	1000	04/12/24 22:56	
EPA 6010	Molybdenum, Dissolved	11.1	ug/L	10.0	04/13/24 00:01	
EPA 6020	Arsenic	5.4	ug/L	1.0	04/11/24 02:07	
EPA 6020	Barium	93.1	ug/L	1.0	04/11/24 02:07	
EPA 903.1	Radium-226	0.214 ± 0.393 (0.701)	pCi/L		04/25/24 13:00	
EPA 904.0	Radium-228	C:NA T:87% 0.793 ± 0.516 (1.00)	pCi/L		04/19/24 16:08	
		C:79% T:86%				
Total Radium Calculation	Total Radium	1.01 ± 0.909 (1.70)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	325	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	325	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	402	mg/L	10.0	04/10/24 12:15	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	04/19/24 12:44	H3
SM 5310C	Dissolved Organic Carbon	2.4	mg/L	1.0	04/16/24 21:22	
50369982007	DUP-2					
EPA 9056	Chloride	55.8	mg/L	2.5	04/12/24 17:25	
EPA 9056	Fluoride	0.10	mg/L	0.10	04/12/24 17:07	
EPA 9056	Sulfate	215	mg/L	2.5	04/12/24 17:25	
EPA 6010	Boron	674	ug/L	100	04/12/24 22:57	
EPA 6010	Calcium	156000	ug/L	1000	04/12/24 22:57	
EPA 6010	Magnesium	34700	ug/L	1000	04/12/24 22:57	
EPA 6010	Molybdenum	17.4	ug/L	10.0	04/12/24 22:57	
EPA 6010	Potassium	2900	ug/L	1000	04/12/24 22:57	
EPA 6010	Sodium	43700	ug/L	1000	04/12/24 22:57	
EPA 6010	Molybdenum, Dissolved	17.5	ug/L	10.0	04/13/24 00:02	
EPA 6020	Barium	93.9	ug/L	1.0	04/11/24 02:10	
EPA 6020	Selenium	2.6	ug/L	1.0	04/11/24 02:10	
EPA 903.1	Radium-226	0.470 ± 0.554 (0.909)	pCi/L		04/25/24 13:00	
		C:NA T:92%				

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369982007	DUP-2					
EPA 904.0	Radium-228	0.565 ± 0.490 (0.997) C:79% T:78%	pCi/L		04/19/24 16:08	
Total Radium Calculation	Total Radium	1.04 ± 1.04 (1.91)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	323	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	323	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	708	mg/L	10.0	04/10/24 12:15	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/19/24 12:39	H3
EPA 353.2	Nitrogen, Nitrate	1.3	mg/L	0.10	04/06/24 01:04	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/16/24 21:53	
50369982008	MW-6S					
EPA 9056	Chloride	48.1	mg/L	2.5	04/12/24 18:20	
EPA 9056	Fluoride	0.17	mg/L	0.10	04/12/24 18:02	
EPA 9056	Sulfate	227	mg/L	2.5	04/12/24 18:20	
EPA 6010	Boron	10100	ug/L	100	04/12/24 22:59	
EPA 6010	Calcium	144000	ug/L	1000	04/12/24 22:59	
EPA 6010	Iron	169	ug/L	100	04/12/24 22:59	
EPA 6010	Lithium	107	ug/L	20.0	04/12/24 22:59	
EPA 6010	Magnesium	30500	ug/L	1000	04/12/24 22:59	
EPA 6010	Manganese	69.3	ug/L	10.0	04/12/24 22:59	
EPA 6010	Molybdenum	91.8	ug/L	10.0	04/12/24 22:59	
EPA 6010	Potassium	10900	ug/L	1000	04/12/24 22:59	
EPA 6010	Sodium	93000	ug/L	1000	04/12/24 22:59	
EPA 6010	Molybdenum, Dissolved	91.4	ug/L	10.0	04/13/24 00:04	
EPA 6020	Antimony	1.3	ug/L	1.0	04/11/24 02:14	
EPA 6020	Barium	99.6	ug/L	1.0	04/11/24 02:14	
EPA 6020	Selenium	29.3	ug/L	1.0	04/11/24 02:14	
EPA 903.1	Radium-226	0.0556 ± 0.361 (0.728) C:NA T:83%	pCi/L		04/25/24 13:00	
EPA 904.0	Radium-228	0.851 ± 0.505 (0.945) C:77% T:83%	pCi/L		04/19/24 16:09	
Total Radium Calculation	Total Radium	0.907 ± 0.866 (1.67)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	414	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	414	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	744	mg/L	20.0	04/10/24 12:16	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	04/19/24 12:43	H3
EPA 353.2	Nitrogen, Nitrate	0.39	mg/L	0.10	04/06/24 01:19	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	04/16/24 22:03	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50369982009	MW-6I					
EPA 9056	Chloride	84.5	mg/L	2.5	04/12/24 19:14	
EPA 9056	Fluoride	0.29	mg/L	0.10	04/12/24 18:56	
EPA 9056	Sulfate	201	mg/L	2.5	04/12/24 19:14	
EPA 6010	Boron	856	ug/L	100	04/12/24 23:00	
EPA 6010	Calcium	123000	ug/L	1000	04/12/24 23:00	
EPA 6010	Lithium	107	ug/L	20.0	04/12/24 23:00	
EPA 6010	Magnesium	26000	ug/L	1000	04/12/24 23:00	
EPA 6010	Manganese	175	ug/L	10.0	04/12/24 23:00	
EPA 6010	Molybdenum	165	ug/L	10.0	04/12/24 23:00	
EPA 6010	Potassium	12100	ug/L	1000	04/12/24 23:00	
EPA 6010	Sodium	83500	ug/L	1000	04/12/24 23:00	
EPA 6010	Molybdenum, Dissolved	163	ug/L	10.0	04/13/24 00:05	
EPA 6020	Barium	78.7	ug/L	1.0	04/11/24 02:24	
EPA 903.1	Radium-226	1.24 ± 0.641 (0.739)	pCi/L		04/25/24 13:00	
EPA 904.0	Radium-228	C:NA T:82% 0.795 ± 0.540 (1.05) C:78% T:81%	pCi/L		04/19/24 16:09	
Total Radium Calculation	Total Radium	2.04 ± 1.18 (1.79)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO3	297	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	297	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	673	mg/L	10.0	04/10/24 12:16	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/19/24 12:41	H3
SM 5310C	Dissolved Organic Carbon	1.5	mg/L	1.0	04/16/24 22:13	
50369982010	MW-6D					
EPA 9056	Chloride	90.5	mg/L	2.5	04/12/24 20:44	
EPA 9056	Fluoride	0.17	mg/L	0.10	04/12/24 20:26	
EPA 9056	Sulfate	82.5	mg/L	2.5	04/12/24 20:44	
EPA 6010	Boron	1520	ug/L	100	04/12/24 23:01	
EPA 6010	Calcium	77100	ug/L	1000	04/12/24 23:01	
EPA 6010	Iron	336	ug/L	100	04/12/24 23:01	
EPA 6010	Lithium	70.3	ug/L	20.0	04/12/24 23:01	
EPA 6010	Magnesium	14400	ug/L	1000	04/12/24 23:01	
EPA 6010	Manganese	337	ug/L	10.0	04/12/24 23:01	
EPA 6010	Molybdenum	198	ug/L	10.0	04/12/24 23:01	
EPA 6010	Potassium	5640	ug/L	1000	04/12/24 23:01	
EPA 6010	Sodium	74700	ug/L	1000	04/12/24 23:01	
EPA 6010	Molybdenum, Dissolved	197	ug/L	10.0	04/13/24 00:07	
EPA 6020	Arsenic	1.7	ug/L	1.0	04/11/24 02:27	
EPA 6020	Barium	63.6	ug/L	1.0	04/11/24 02:27	
EPA 903.1	Radium-226	0.517 ± 0.409 (0.556)	pCi/L		04/25/24 13:00	
		C:NA T:91%				

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50369982010	MW-6D					
EPA 904.0	Radium-228	0.670 ± 0.390 (0.706) C:83% T:83%	pCi/L		04/19/24 16:09	
Total Radium Calculation	Total Radium	1.19 ± 0.799 (1.26)	pCi/L		04/26/24 10:41	
SM 2320B	Alkalinity, Total as CaCO ₃	218	mg/L	10.0	04/09/24 01:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO ₃)	218	mg/L	10.0	04/09/24 01:23	
SM 2540C	Total Dissolved Solids	450	mg/L	10.0	04/10/24 12:16	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	04/19/24 12:44	H3
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/16/24 22:23	

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369982

Sample: MW-9S **Lab ID: 50369982001** Collected: 04/04/24 12:55 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	53.6	mg/L	25.0	6.7	100		04/12/24 09:34	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.017	1		04/12/24 09:16	16984-48-8	
Sulfate	202	mg/L	25.0	19.0	100		04/12/24 09:34	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	662	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:46	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:46	7440-43-9	
Calcium	154000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:46	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:46	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:46	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:46	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:46	7439-93-2	
Magnesium	34200	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:46	7439-95-4	
Manganese	13.4	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:46	7439-96-5	
Molybdenum	17.6	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:46	7439-98-7	
Potassium	2850	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:46	7440-09-7	
Sodium	42400	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:46	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	18.1	ug/L	10.0	0.78	1	04/12/24 07:57	04/12/24 23:50	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 01:37	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 01:37	7440-38-2	
Barium	90.8	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 01:37	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 01:37	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 01:37	7440-48-4	
Selenium	2.6	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 01:37	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 01:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 09:37	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	330	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Bicarbonate (CaCO3)	330	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-9S		Lab ID: 50369982001		Collected: 04/04/24 12:55	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	708	mg/L	10.0	10.0	1		04/10/24 12:13		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		04/18/24 16:39		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.3	mg/L	0.10	0.013	1		04/06/24 01:38	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/16/24 19:45		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-9D		Lab ID: 50369982002		Collected: 04/04/24 11:40		Received: 04/05/24 14:55		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	57.0	mg/L	2.5	0.67	10		04/12/24 10:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/12/24 09:52	16984-48-8	
Sulfate	52.6	mg/L	2.5	1.9	10		04/12/24 10:10	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	ND	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:50	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:50	7440-43-9	
Calcium	132000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:50	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:50	7440-47-3	
Iron	161	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:50	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:50	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:50	7439-93-2	
Magnesium	30800	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:50	7439-95-4	
Manganese	298	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:50	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:50	7439-98-7	
Potassium	2650	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:50	7440-09-7	
Sodium	35700	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:50	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/12/24 07:57	04/12/24 23:55	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 01:40	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 01:40	7440-38-2	
Barium	133	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 01:40	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 01:40	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 01:40	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 01:40	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 01:40	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 09:39	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	399	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Bicarbonate (CaCO3)	399	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-9D		Lab ID: 50369982002		Collected: 04/04/24 11:40	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	535	mg/L	10.0	10.0	1		04/10/24 12:14		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/18/24 16:40		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:24	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.5	mg/L	1.0	0.25	1		04/16/24 20:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369982

Sample: MW-9I **Lab ID: 50369982003** Collected: 04/04/24 10:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	229	mg/L	2.5	0.67	10		04/12/24 11:22	16887-00-6	
Fluoride	0.30	mg/L	0.10	0.017	1		04/12/24 11:04	16984-48-8	
Sulfate	333	mg/L	2.5	1.9	10		04/12/24 11:22	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	247	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:52	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:52	7440-43-9	
Calcium	119000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:52	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:52	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:52	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:52	7439-92-1	
Lithium	22.9	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:52	7439-93-2	
Magnesium	31800	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:52	7439-95-4	
Manganese	347	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:52	7439-96-5	
Molybdenum	30.7	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:52	7439-98-7	
Potassium	9020	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:52	7440-09-7	
Sodium	170000	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:52	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	29.8	ug/L	10.0	0.78	1	04/12/24 07:57	04/12/24 23:57	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 01:50	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 01:50	7440-38-2	
Barium	73.5	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 01:50	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 01:50	7440-41-7	
Cobalt	1.3	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 01:50	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 01:50	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 01:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 09:42	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	231	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Bicarbonate (CaCO3)	231	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-9I Lab ID: 50369982003 Collected: 04/04/24 10:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis								
Total Dissolved Solids	932	mg/L	20.0	20.0	1		04/10/24 12:14		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		04/18/24 16:42		H3
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	2.2	mg/L	0.10	0.013	1		04/06/24 01:08	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	2.4	mg/L	1.0	0.25	1		04/16/24 20:18		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-8S **Lab ID: 50369982004** Collected: 04/04/24 15:05 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	80.4	mg/L	2.5	0.67	10		04/12/24 11:57	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.017	1		04/12/24 11:40	16984-48-8	
Sulfate	271	mg/L	2.5	1.9	10		04/12/24 11:57	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	570	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:53	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:53	7440-43-9	
Calcium	121000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:53	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:53	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:53	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:53	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:53	7439-93-2	
Magnesium	26900	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:53	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:53	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:53	7439-98-7	
Potassium	2350	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:53	7440-09-7	
Sodium	40000	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:53	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	19.2	ug/L	10.0	0.78	1	04/12/24 07:57	04/12/24 23:58	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 01:54	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 01:54	7440-38-2	
Barium	79.3	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 01:54	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 01:54	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 01:54	7440-48-4	
Selenium	2.8	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 01:54	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 01:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 09:44	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	251	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Bicarbonate (CaCO3)	251	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-8S		Lab ID: 50369982004		Collected: 04/04/24 15:05	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	649	mg/L	10.0	10.0	1		04/10/24 12:15		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		04/19/24 12:46		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.5	mg/L	0.10	0.013	1		04/06/24 02:00	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.0	mg/L	1.0	0.25	1		04/16/24 20:29		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369982

Sample: MW-3I **Lab ID: 50369982005** Collected: 04/04/24 11:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	111	mg/L	2.5	0.67	10		04/12/24 12:51	16887-00-6	
Fluoride	0.36	mg/L	0.10	0.017	1		04/12/24 12:33	16984-48-8	
Sulfate	95.8	mg/L	2.5	1.9	10		04/12/24 12:51	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:54	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:54	7440-43-9	
Calcium	72800	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:54	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:54	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:54	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:54	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:54	7439-93-2	
Magnesium	22500	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:54	7439-95-4	
Manganese	41.5	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:54	7439-96-5	
Molybdenum	42.2	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:54	7439-98-7	
Potassium	5650	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:54	7440-09-7	
Sodium	90700	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:54	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	41.8	ug/L	10.0	0.78	1	04/12/24 07:57	04/12/24 23:59	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 01:57	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 01:57	7440-38-2	
Barium	71.4	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 01:57	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 01:57	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 01:57	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 01:57	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 01:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 09:56	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	232	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Bicarbonate (CaCO3)	232	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-3I		Lab ID: 50369982005		Collected: 04/04/24 11:00	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	493	mg/L	10.0	10.0	1		04/10/24 12:15		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/19/24 12:43		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:17	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	3.1	mg/L	1.0	0.25	1		04/16/24 21:11		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-3D		Lab ID: 50369982006		Collected: 04/04/24 13:30		Received: 04/05/24 14:55		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	51.7	mg/L	2.5	0.67	10		04/12/24 13:27	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.017	1		04/12/24 13:09	16984-48-8	
Sulfate	45.0	mg/L	0.25	0.19	1		04/12/24 13:09	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	121	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:56	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:56	7440-43-9	
Calcium	95400	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:56	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:56	7440-47-3	
Iron	1410	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:56	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:56	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:56	7439-93-2	
Magnesium	31100	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:56	7439-95-4	
Manganese	209	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:56	7439-96-5	
Molybdenum	11.4	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:56	7439-98-7	
Potassium	4100	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:56	7440-09-7	
Sodium	30600	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:56	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	11.1	ug/L	10.0	0.78	1	04/12/24 07:57	04/13/24 00:01	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 02:07	7440-36-0	
Arsenic	5.4	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 02:07	7440-38-2	
Barium	93.1	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 02:07	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 02:07	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 02:07	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 02:07	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 02:07	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 09:59	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	325	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Bicarbonate (CaCO3)	325	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-3D		Lab ID: 50369982006		Collected: 04/04/24 13:30	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	402	mg/L	10.0	10.0	1		04/10/24 12:15		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		04/19/24 12:44		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:49	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.4	mg/L	1.0	0.25	1		04/16/24 21:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: DUP-2 Lab ID: 50369982007 Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	55.8	mg/L	2.5	0.67	10		04/12/24 17:25	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.017	1		04/12/24 17:07	16984-48-8	
Sulfate	215	mg/L	2.5	1.9	10		04/12/24 17:25	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	674	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:57	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:57	7440-43-9	
Calcium	156000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:57	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:57	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:57	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:57	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:57	7439-93-2	
Magnesium	34700	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:57	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:57	7439-96-5	
Molybdenum	17.4	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:57	7439-98-7	
Potassium	2900	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:57	7440-09-7	
Sodium	43700	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:57	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	17.5	ug/L	10.0	0.78	1	04/12/24 07:57	04/13/24 00:02	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 02:10	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 02:10	7440-38-2	
Barium	93.9	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 02:10	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 02:10	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 02:10	7440-48-4	
Selenium	2.6	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 02:10	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 02:10	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 10:01	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	323	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Bicarbonate (CaCO3)	323	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: DUP-2 Lab ID: 50369982007 Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis								
Total Dissolved Solids	708	mg/L	10.0	10.0	1		04/10/24 12:15		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		04/19/24 12:39		H3
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis								
Nitrogen, Nitrate	1.3	mg/L	0.10	0.013	1		04/06/24 01:04	14797-55-8	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Indianapolis								
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/16/24 21:53		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-6S Lab ID: 50369982008 Collected: 04/04/24 11:00 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	48.1	mg/L	2.5	0.67	10		04/12/24 18:20	16887-00-6	
Fluoride	0.17	mg/L	0.10	0.017	1		04/12/24 18:02	16984-48-8	
Sulfate	227	mg/L	2.5	1.9	10		04/12/24 18:20	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	10100	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 22:59	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 22:59	7440-43-9	
Calcium	144000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 22:59	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 22:59	7440-47-3	
Iron	169	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 22:59	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 22:59	7439-92-1	
Lithium	107	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 22:59	7439-93-2	
Magnesium	30500	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 22:59	7439-95-4	
Manganese	69.3	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 22:59	7439-96-5	
Molybdenum	91.8	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 22:59	7439-98-7	
Potassium	10900	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 22:59	7440-09-7	
Sodium	93000	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 22:59	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	91.4	ug/L	10.0	0.78	1	04/12/24 07:57	04/13/24 00:04	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	1.3	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 02:14	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 02:14	7440-38-2	
Barium	99.6	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 02:14	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 02:14	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 02:14	7440-48-4	
Selenium	29.3	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 02:14	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 02:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 10:04	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	414	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Bicarbonate (CaCO3)	414	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-6S		Lab ID: 50369982008		Collected: 04/04/24 11:00	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	744	mg/L	20.0	20.0	1		04/10/24 12:16		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		04/19/24 12:43		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.39	mg/L	0.10	0.013	1		04/06/24 01:19	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.4	mg/L	1.0	0.25	1		04/16/24 22:03		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-6I Lab ID: 50369982009 Collected: 04/04/24 10:05 Received: 04/05/24 14:55 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	84.5	mg/L	2.5	0.67	10		04/12/24 19:14	16887-00-6	
Fluoride	0.29	mg/L	0.10	0.017	1		04/12/24 18:56	16984-48-8	
Sulfate	201	mg/L	2.5	1.9	10		04/12/24 19:14	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	856	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 23:00	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 23:00	7440-43-9	
Calcium	123000	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 23:00	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 23:00	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 23:00	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 23:00	7439-92-1	
Lithium	107	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 23:00	7439-93-2	
Magnesium	26000	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 23:00	7439-95-4	
Manganese	175	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 23:00	7439-96-5	
Molybdenum	165	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 23:00	7439-98-7	
Potassium	12100	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 23:00	7440-09-7	
Sodium	83500	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 23:00	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	163	ug/L	10.0	0.78	1	04/12/24 07:57	04/13/24 00:05	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 02:24	7440-36-0	
Arsenic	ND	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 02:24	7440-38-2	
Barium	78.7	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 02:24	7440-39-3	
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 02:24	7440-41-7	
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 02:24	7440-48-4	
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 02:24	7782-49-2	
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 02:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 10:06	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	297	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Bicarbonate (CaCO3)	297	mg/L	10.0	10.0	1		04/09/24 01:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-6I		Lab ID: 50369982009		Collected: 04/04/24 10:05	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	673	mg/L	10.0	10.0	1		04/10/24 12:16		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/19/24 12:41		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:13	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.5	mg/L	1.0	0.25	1		04/16/24 22:13		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-6D		Lab ID: 50369982010		Collected: 04/04/24 12:05	Received: 04/05/24 14:55	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Chloride	90.5	mg/L	2.5	0.67	10		04/12/24 20:44	16887-00-6		
Fluoride	0.17	mg/L	0.10	0.017	1		04/12/24 20:26	16984-48-8		
Sulfate	82.5	mg/L	2.5	1.9	10		04/12/24 20:44	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis								
Boron	1520	ug/L	100	6.2	1	04/12/24 07:47	04/12/24 23:01	7440-42-8		
Cadmium	ND	ug/L	2.0	0.60	1	04/12/24 07:47	04/12/24 23:01	7440-43-9		
Calcium	77100	ug/L	1000	67.7	1	04/12/24 07:47	04/12/24 23:01	7440-70-2		
Chromium	ND	ug/L	10.0	0.42	1	04/12/24 07:47	04/12/24 23:01	7440-47-3		
Iron	336	ug/L	100	30.0	1	04/12/24 07:47	04/12/24 23:01	7439-89-6		
Lead	ND	ug/L	10.0	2.5	1	04/12/24 07:47	04/12/24 23:01	7439-92-1		
Lithium	70.3	ug/L	20.0	6.8	1	04/12/24 07:47	04/12/24 23:01	7439-93-2		
Magnesium	14400	ug/L	1000	33.6	1	04/12/24 07:47	04/12/24 23:01	7439-95-4		
Manganese	337	ug/L	10.0	1.8	1	04/12/24 07:47	04/12/24 23:01	7439-96-5		
Molybdenum	198	ug/L	10.0	0.78	1	04/12/24 07:47	04/12/24 23:01	7439-98-7		
Potassium	5640	ug/L	1000	97.8	1	04/12/24 07:47	04/12/24 23:01	7440-09-7		
Sodium	74700	ug/L	1000	54.8	1	04/12/24 07:47	04/12/24 23:01	7440-23-5		
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis								
Molybdenum, Dissolved	197	ug/L	10.0	0.78	1	04/12/24 07:57	04/13/24 00:07	7439-98-7		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Antimony	ND	ug/L	1.0	0.49	1	04/09/24 15:01	04/11/24 02:27	7440-36-0		
Arsenic	1.7	ug/L	1.0	0.075	1	04/09/24 15:01	04/11/24 02:27	7440-38-2		
Barium	63.6	ug/L	1.0	0.077	1	04/09/24 15:01	04/11/24 02:27	7440-39-3		
Beryllium	ND	ug/L	0.20	0.035	1	04/09/24 15:01	04/11/24 02:27	7440-41-7		
Cobalt	ND	ug/L	1.0	0.046	1	04/09/24 15:01	04/11/24 02:27	7440-48-4		
Selenium	ND	ug/L	1.0	0.20	1	04/09/24 15:01	04/11/24 02:27	7782-49-2		
Thallium	ND	ug/L	1.0	0.040	1	04/09/24 15:01	04/11/24 02:27	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	0.20	0.12	1	04/15/24 18:30	04/16/24 10:09	7439-97-6		
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis								
Alkalinity, Total as CaCO3	218	mg/L	10.0	10.0	1		04/09/24 01:23			
Alkalinity,Bicarbonate (CaCO3)	218	mg/L	10.0	10.0	1		04/09/24 01:23			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/09/24 01:23			

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-6D		Lab ID: 50369982010		Collected: 04/04/24 12:05	Received: 04/05/24 14:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	450	mg/L	10.0	10.0	1		04/10/24 12:16		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		04/19/24 12:44		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/06/24 01:26	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/16/24 22:23		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	783754	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

METHOD BLANK:	3586029	Matrix:	Water
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/12/24 01:48	
Fluoride	mg/L	ND	0.10	0.017	04/12/24 01:48	
Sulfate	mg/L	ND	0.25	0.19	04/12/24 01:48	

LABORATORY CONTROL SAMPLE: 3586030						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	96	80-120	
Fluoride	mg/L	1	0.99	99	80-120	
Sulfate	mg/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586031												3586032	
Parameter	Units	50369978004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	12.9	2.5	2.5	15.1	15.1	87	88	80-120	0	15		
Fluoride	mg/L	ND	1	1	1.1	1.1	106	108	80-120	2	15		
Sulfate	mg/L	12.4	5	5	17.3	17.3	98	98	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	784954	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

METHOD BLANK:	3591196	Matrix:	Water
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/16/24 09:32	

LABORATORY CONTROL SAMPLE: 3591197						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591198												3591199	
Parameter	Units	50369982004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Mercury	ug/L	ND	5	5	4.7	4.8	94	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	783844	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010

METHOD BLANK: 3586589 Matrix: Water
 Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/12/24 22:34	
Cadmium	ug/L	ND	2.0	0.60	04/12/24 22:34	
Calcium	ug/L	ND	1000	67.7	04/12/24 22:34	
Chromium	ug/L	ND	10.0	0.42	04/12/24 22:34	
Iron	ug/L	ND	100	30.0	04/12/24 22:34	
Lead	ug/L	ND	10.0	2.5	04/12/24 22:34	
Lithium	ug/L	ND	20.0	6.8	04/12/24 22:34	
Magnesium	ug/L	ND	1000	33.6	04/12/24 22:34	
Manganese	ug/L	ND	10.0	1.8	04/12/24 22:34	
Molybdenum	ug/L	ND	10.0	0.78	04/12/24 22:34	
Potassium	ug/L	ND	1000	97.8	04/12/24 22:34	
Sodium	ug/L	ND	1000	54.8	04/12/24 22:34	

LABORATORY CONTROL SAMPLE: 3586590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	957	96	80-120	
Cadmium	ug/L	1000	997	100	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lead	ug/L	1000	970	97	80-120	
Lithium	ug/L	1000	1030	103	80-120	
Magnesium	ug/L	10000	9660	97	80-120	
Manganese	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Sodium	ug/L	10000	9800	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586591 3586592

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result						
Boron	ug/L	1870	1000	1000	2800	2860	94	99	75-125	2	20
Cadmium	ug/L	ND	1000	1000	993	1000	99	100	75-125	1	20
Calcium	ug/L	117000	10000	10000	123000	125000	63	85	75-125	2	20 P6

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586591 3586592											
Parameter	Units	50369979001		MS	MSD	3586592		% Rec	% Rec	% Rec	Max
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chromium	ug/L	ND	1000	1000	988	993	99	99	75-125	1	20
Iron	ug/L	381	10000	10000	10100	10100	97	97	75-125	0	20
Lead	ug/L	ND	1000	1000	935	942	93	94	75-125	1	20
Lithium	ug/L	69.5	1000	1000	1100	1100	103	103	75-125	0	20
Magnesium	ug/L	29400	10000	10000	38000	38500	86	91	75-125	1	20
Manganese	ug/L	32.5	1000	1000	1020	1020	98	98	75-125	0	20
Molybdenum	ug/L	69.3	1000	1000	1080	1090	101	102	75-125	1	20
Potassium	ug/L	6880	10000	10000	16900	17000	101	102	75-125	1	20
Sodium	ug/L	33500	10000	10000	42300	43000	88	96	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	783852	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

METHOD BLANK:	3586626	Matrix:	Water
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/12/24 23:36	

LABORATORY CONTROL SAMPLE: 3586627						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586628												3586629	
Parameter	Units	50369979001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Molybdenum, Dissolved	ug/L	67.7	1000	1000	1080	1080	101	101	75-125	0	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	784037	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

METHOD BLANK:	3587088	Matrix:	Water
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.49	04/10/24 19:12	
Arsenic	ug/L	ND	1.0	0.075	04/10/24 19:12	
Barium	ug/L	ND	1.0	0.077	04/10/24 19:12	
Beryllium	ug/L	ND	0.20	0.035	04/10/24 19:12	
Cobalt	ug/L	ND	1.0	0.046	04/10/24 19:12	
Selenium	ug/L	ND	1.0	0.20	04/10/24 19:12	
Thallium	ug/L	ND	1.0	0.040	04/10/24 19:12	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.9	105	80-120	
Arsenic	ug/L	40	39.4	99	80-120	
Barium	ug/L	40	40.5	101	80-120	
Beryllium	ug/L	40	40.9	102	80-120	
Cobalt	ug/L	40	41.3	103	80-120	
Selenium	ug/L	40	40.3	101	80-120	
Thallium	ug/L	40	41.3	103	80-120	

Parameter	Units	3587090		3587091		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50369978005	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	ug/L	ND	40	40	41.8	41.7	104	104	75-125	0	20
Arsenic	ug/L	ND	40	40	39.2	39.4	98	98	75-125	0	20
Barium	ug/L	56.5	40	40	97.1	97.6	101	103	75-125	0	20
Beryllium	ug/L	ND	40	40	40.7	40.8	102	102	75-125	0	20
Cobalt	ug/L	ND	40	40	38.9	38.9	97	97	75-125	0	20
Selenium	ug/L	ND	40	40	38.9	38.8	97	96	75-125	0	20
Thallium	ug/L	ND	40	40	41.8	42.2	104	105	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch: 783994 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010

METHOD BLANK: 3586997 Matrix: Water
 Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/09/24 01:23	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/09/24 01:23	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/09/24 01:23	

LABORATORY CONTROL SAMPLE: 3586998

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	90-110	

SAMPLE DUPLICATE: 3586999

Parameter	Units	50369982001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	330	335	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	330	335	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	784226	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

METHOD BLANK:	3587797	Matrix:	Water
Associated Lab Samples:	50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/10/24 12:10	

LABORATORY CONTROL SAMPLE: 3587798						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	80-120	

SAMPLE DUPLICATE: 3587799						
Parameter	Units	50369978004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	375	379	1	10	

SAMPLE DUPLICATE: 3587800						
Parameter	Units	50369984003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	545	565	4	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	785655	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369982001, 50369982002, 50369982003

SAMPLE DUPLICATE: 3594044

Parameter	Units	50369976004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.3	6.4	1	2	H3

SAMPLE DUPLICATE: 3594045

Parameter	Units	50369982003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	785771	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010

SAMPLE DUPLICATE: 3594706

Parameter	Units	50369982007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.4	0	2	H3

SAMPLE DUPLICATE: 3594707

Parameter	Units	50370604001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.6	6.7	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50369982

QC Batch: 783769 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982005, 50369982007, 50369982008, 50369982009, 50369982010

METHOD BLANK: 3586087 Matrix: Water
 Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982005, 50369982007, 50369982008, 50369982009, 50369982010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/06/24 00:51	

LABORATORY CONTROL SAMPLE: 3586088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586089 3586090

Parameter	Units	50369978007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	1.0	1.0	103	103	90-110	1	20	

MATRIX SPIKE SAMPLE: 3586091

Parameter	Units	50369982010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	103	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	783770	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369982004, 50369982006

METHOD BLANK: 3586092 Matrix: Water

Associated Lab Samples: 50369982004, 50369982006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/06/24 01:45	

LABORATORY CONTROL SAMPLE: 3586093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3586094 3586095

Parameter	Units	50369946005		3586095		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Nitrate	mg/L	8.7	5	5	13.9	13.8	103	103	90-110	0	20

MATRIX SPIKE SAMPLE: 3586096

Parameter	Units	50369975003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	104	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	784970	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982004

METHOD BLANK: 3591284 Matrix: Water
 Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/16/24 15:23	

LABORATORY CONTROL SAMPLE: 3591285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591286 3591287

Parameter	Units	50369976002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.7	10	10	9.5	9.5	78	79	80-120	1	20	M3

MATRIX SPIKE SAMPLE: 3591288

Parameter	Units	50369982001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.3	10	9.0	77	80-120	M0

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	784972	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

METHOD BLANK:	3591293	Matrix:	Water
Associated Lab Samples:	50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/16/24 20:50	

LABORATORY CONTROL SAMPLE: 3591294						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591295												3591296	
Parameter	Units	50370189003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Dissolved Organic Carbon	mg/L	1.4	10	10	9.8	9.5	84	82	80-120	3	20		

MATRIX SPIKE SAMPLE: 3591297											
Parameter	Units	50370189008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Dissolved Organic Carbon	mg/L	1.4	10	9.5	81	80-120					

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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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-9S **Lab ID: 50369982001** Collected: 04/04/24 12:55 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.259 ± 0.338 (0.558) C:NA T:88%	pCi/L	04/25/24 12:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.497 ± 0.375 (0.734) C:81% T:83%	pCi/L	04/19/24 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.756 ± 0.713 (1.29)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-9D **Lab ID: 50369982002** Collected: 04/04/24 11:40 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.815 ± 0.544 (0.699) C:NA T:82%	pCi/L	04/25/24 12:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.10 ± 0.502 (0.845) C:79% T:82%	pCi/L	04/19/24 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.92 ± 1.05 (1.54)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-9I **Lab ID: 50369982003** Collected: 04/04/24 10:00 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.123 ± 0.613 (1.23) C:NA T:86%	pCi/L	04/25/24 12:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.913 ± 0.463 (0.809) C:75% T:85%	pCi/L	04/19/24 16:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.913 ± 1.08 (2.04)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-8S **Lab ID: 50369982004** Collected: 04/04/24 15:05 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.623 ± 0.581 (0.899) C:NA T:85%	pCi/L	04/25/24 12:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.732 ± 0.440 (0.820) C:78% T:85%	pCi/L	04/19/24 16:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.36 ± 1.02 (1.72)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-3I **Lab ID: 50369982005** Collected: 04/04/24 11:00 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.687 ± 0.567 (0.819) C:NA T:86%	pCi/L	04/25/24 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.23 ± 0.499 (0.788) C:82% T:84%	pCi/L	04/19/24 16:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.92 ± 1.07 (1.61)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-3D **Lab ID: 50369982006** Collected: 04/04/24 13:30 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.214 ± 0.393 (0.701) C:NA T:87%	pCi/L	04/25/24 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.793 ± 0.516 (1.00) C:79% T:86%	pCi/L	04/19/24 16:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.01 ± 0.909 (1.70)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: DUP-2 **Lab ID: 50369982007** Collected: 04/04/24 08:00 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.470 ± 0.554 (0.909) C:NA T:92%	pCi/L	04/25/24 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.565 ± 0.490 (0.997) C:79% T:78%	pCi/L	04/19/24 16:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.04 ± 1.04 (1.91)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-6S **Lab ID: 50369982008** Collected: 04/04/24 11:00 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0556 ± 0.361 (0.728) C:NA T:83%	pCi/L	04/25/24 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.851 ± 0.505 (0.945) C:77% T:83%	pCi/L	04/19/24 16:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.907 ± 0.866 (1.67)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-6I Lab ID: 50369982009 Collected: 04/04/24 10:05 Received: 04/05/24 14:55 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.24 ± 0.641 (0.739) C:NA T:82%	pCi/L	04/25/24 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.795 ± 0.540 (1.05) C:78% T:81%	pCi/L	04/19/24 16:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.04 ± 1.18 (1.79)	pCi/L	04/26/24 10:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Sample: MW-6D **Lab ID: 50369982010** Collected: 04/04/24 12:05 Received: 04/05/24 14:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.517 ± 0.409 (0.556) C:NA T:91%	pCi/L	04/25/24 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.670 ± 0.390 (0.706) C:83% T:83%	pCi/L	04/19/24 16:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.19 ± 0.799 (1.26)	pCi/L	04/26/24 10:41	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	661213	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: 50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010

METHOD BLANK:	3220444	Matrix:	Water
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Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.122 ± 0.290 (0.712) C:82% T:88%	pCi/L	04/19/24 16:07	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

QC Batch:	661212	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: 50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010

METHOD BLANK: 3220443 Matrix: Water

Associated Lab Samples: 50369982001, 50369982002, 50369982003, 50369982004, 50369982005, 50369982006, 50369982007, 50369982008, 50369982009, 50369982010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.379 ± 0.251 (0.114) C:NA T:84%	pCi/L	04/25/24 12:48	

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

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QUALIFIERS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369982001	MW-9S	EPA 9056	783754		
50369982002	MW-9D	EPA 9056	783754		
50369982003	MW-9I	EPA 9056	783754		
50369982004	MW-8S	EPA 9056	783754		
50369982005	MW-3I	EPA 9056	783754		
50369982006	MW-3D	EPA 9056	783754		
50369982007	DUP-2	EPA 9056	783754		
50369982008	MW-6S	EPA 9056	783754		
50369982009	MW-6I	EPA 9056	783754		
50369982010	MW-6D	EPA 9056	783754		
50369982001	MW-9S	EPA 3010	783844	EPA 6010	784751
50369982002	MW-9D	EPA 3010	783844	EPA 6010	784751
50369982003	MW-9I	EPA 3010	783844	EPA 6010	784751
50369982004	MW-8S	EPA 3010	783844	EPA 6010	784751
50369982005	MW-3I	EPA 3010	783844	EPA 6010	784751
50369982006	MW-3D	EPA 3010	783844	EPA 6010	784751
50369982007	DUP-2	EPA 3010	783844	EPA 6010	784751
50369982008	MW-6S	EPA 3010	783844	EPA 6010	784751
50369982009	MW-6I	EPA 3010	783844	EPA 6010	784751
50369982010	MW-6D	EPA 3010	783844	EPA 6010	784751
50369982001	MW-9S	EPA 3010	783852	EPA 6010	784752
50369982002	MW-9D	EPA 3010	783852	EPA 6010	784752
50369982003	MW-9I	EPA 3010	783852	EPA 6010	784752
50369982004	MW-8S	EPA 3010	783852	EPA 6010	784752
50369982005	MW-3I	EPA 3010	783852	EPA 6010	784752
50369982006	MW-3D	EPA 3010	783852	EPA 6010	784752
50369982007	DUP-2	EPA 3010	783852	EPA 6010	784752
50369982008	MW-6S	EPA 3010	783852	EPA 6010	784752
50369982009	MW-6I	EPA 3010	783852	EPA 6010	784752
50369982010	MW-6D	EPA 3010	783852	EPA 6010	784752
50369982001	MW-9S	EPA 200.2	784037	EPA 6020	784356
50369982002	MW-9D	EPA 200.2	784037	EPA 6020	784356
50369982003	MW-9I	EPA 200.2	784037	EPA 6020	784356
50369982004	MW-8S	EPA 200.2	784037	EPA 6020	784356
50369982005	MW-3I	EPA 200.2	784037	EPA 6020	784356
50369982006	MW-3D	EPA 200.2	784037	EPA 6020	784356
50369982007	DUP-2	EPA 200.2	784037	EPA 6020	784356
50369982008	MW-6S	EPA 200.2	784037	EPA 6020	784356
50369982009	MW-6I	EPA 200.2	784037	EPA 6020	784356
50369982010	MW-6D	EPA 200.2	784037	EPA 6020	784356
50369982001	MW-9S	EPA 7470	784954	EPA 7470	785039
50369982002	MW-9D	EPA 7470	784954	EPA 7470	785039
50369982003	MW-9I	EPA 7470	784954	EPA 7470	785039
50369982004	MW-8S	EPA 7470	784954	EPA 7470	785039
50369982005	MW-3I	EPA 7470	784954	EPA 7470	785039
50369982006	MW-3D	EPA 7470	784954	EPA 7470	785039
50369982007	DUP-2	EPA 7470	784954	EPA 7470	785039

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369982008	MW-6S	EPA 7470	784954	EPA 7470	785039
50369982009	MW-6I	EPA 7470	784954	EPA 7470	785039
50369982010	MW-6D	EPA 7470	784954	EPA 7470	785039
50369982001	MW-9S	EPA 903.1	661212		
50369982002	MW-9D	EPA 903.1	661212		
50369982003	MW-9I	EPA 903.1	661212		
50369982004	MW-8S	EPA 903.1	661212		
50369982005	MW-3I	EPA 903.1	661212		
50369982006	MW-3D	EPA 903.1	661212		
50369982007	DUP-2	EPA 903.1	661212		
50369982008	MW-6S	EPA 903.1	661212		
50369982009	MW-6I	EPA 903.1	661212		
50369982010	MW-6D	EPA 903.1	661212		
50369982001	MW-9S	EPA 904.0	661213		
50369982002	MW-9D	EPA 904.0	661213		
50369982003	MW-9I	EPA 904.0	661213		
50369982004	MW-8S	EPA 904.0	661213		
50369982005	MW-3I	EPA 904.0	661213		
50369982006	MW-3D	EPA 904.0	661213		
50369982007	DUP-2	EPA 904.0	661213		
50369982008	MW-6S	EPA 904.0	661213		
50369982009	MW-6I	EPA 904.0	661213		
50369982010	MW-6D	EPA 904.0	661213		
50369982001	MW-9S	Total Radium Calculation	664817		
50369982002	MW-9D	Total Radium Calculation	664817		
50369982003	MW-9I	Total Radium Calculation	664817		
50369982004	MW-8S	Total Radium Calculation	664817		
50369982005	MW-3I	Total Radium Calculation	664817		
50369982006	MW-3D	Total Radium Calculation	664817		
50369982007	DUP-2	Total Radium Calculation	664817		
50369982008	MW-6S	Total Radium Calculation	664817		
50369982009	MW-6I	Total Radium Calculation	664817		
50369982010	MW-6D	Total Radium Calculation	664817		
50369982001	MW-9S	SM 2320B	783994		
50369982002	MW-9D	SM 2320B	783994		
50369982003	MW-9I	SM 2320B	783994		
50369982004	MW-8S	SM 2320B	783994		
50369982005	MW-3I	SM 2320B	783994		
50369982006	MW-3D	SM 2320B	783994		
50369982007	DUP-2	SM 2320B	783994		
50369982008	MW-6S	SM 2320B	783994		
50369982009	MW-6I	SM 2320B	783994		
50369982010	MW-6D	SM 2320B	783994		
50369982001	MW-9S	SM 2540C	784226		
50369982002	MW-9D	SM 2540C	784226		
50369982003	MW-9I	SM 2540C	784226		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50369982

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50369982004	MW-8S	SM 2540C	784226		
50369982005	MW-3I	SM 2540C	784226		
50369982006	MW-3D	SM 2540C	784226		
50369982007	DUP-2	SM 2540C	784226		
50369982008	MW-6S	SM 2540C	784226		
50369982009	MW-6I	SM 2540C	784226		
50369982010	MW-6D	SM 2540C	784226		
50369982001	MW-9S	SM 4500-H+B	785655		
50369982002	MW-9D	SM 4500-H+B	785655		
50369982003	MW-9I	SM 4500-H+B	785655		
50369982004	MW-8S	SM 4500-H+B	785771		
50369982005	MW-3I	SM 4500-H+B	785771		
50369982006	MW-3D	SM 4500-H+B	785771		
50369982007	DUP-2	SM 4500-H+B	785771		
50369982008	MW-6S	SM 4500-H+B	785771		
50369982009	MW-6I	SM 4500-H+B	785771		
50369982010	MW-6D	SM 4500-H+B	785771		
50369982001	MW-9S	EPA 353.2	783769		
50369982002	MW-9D	EPA 353.2	783769		
50369982003	MW-9I	EPA 353.2	783769		
50369982004	MW-8S	EPA 353.2	783770		
50369982005	MW-3I	EPA 353.2	783769		
50369982006	MW-3D	EPA 353.2	783770		
50369982007	DUP-2	EPA 353.2	783769		
50369982008	MW-6S	EPA 353.2	783769		
50369982009	MW-6I	EPA 353.2	783769		
50369982010	MW-6D	EPA 353.2	783769		
50369982001	MW-9S	SM 5310C	784970		
50369982002	MW-9D	SM 5310C	784970		
50369982003	MW-9I	SM 5310C	784970		
50369982004	MW-8S	SM 5310C	784970		
50369982005	MW-3I	SM 5310C	784972		
50369982006	MW-3D	SM 5310C	784972		
50369982007	DUP-2	SM 5310C	784972		
50369982008	MW-6S	SM 5310C	784972		
50369982009	MW-6I	SM 5310C	784972		
50369982010	MW-6D	SM 5310C	784972		

REPORT OF LABORATORY ANALYSIS

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: IBM 7/5/24 16:11

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**
 0.4/10.9 2.6/2.7 0.6/0.7 1.7/1.8

4. Cooler Temperature(s): 0.4/10.9 2.6/2.7 0.6/0.7 1.7/1.8
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>Nitrate/Nitrite</u>	X		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	X		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace Wisconsin Sulfide?			X
Containers Intact?:	X		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Present?		X	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			X

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	MeOH (only) SBS DI R	VIALS			AMBER GLASS						PLASTIC						OTHER			Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black							
			DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N						BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit
			HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9																										
1															2	1	2	1	1									2	✓	✓		
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass	
DG9H	40mL HCl amber voa vial
DG9P	40mL TSP amber vial
DG9S	40mL H2SO4 amber vial
DG9T	40mL Na Thio amber vial
DG9U	40mL unpreserved amber vial
VG9H	40mL HCl clear vial
VG9T	40mL Na Thio. clear vial
VG9U	40mL unpreserved clear vial
I	40mL w/hexane wipe vial
WGKU	8oz unpreserved clear jar
WGUFU	4oz clear soil jar
JGFU	4oz unpreserved amber wide
CG3H	250mL clear glass HCl
CG3F	250mL clear glass HCl, Field Filter
BG1H	1L HCl clear glass
BG1S	1L H2SO4 clear glass
BG1T	1L Na Thiosulfate clear glass
BG1U	1L unpreserved glass
BG3H	250mL HCl Clear Glass
BG3U	250mL Unpres Clear Glass
AG0U	100mL unpres amber glass
AG1H	1L HCl amber glass
AG1S	1L H2SO4 amber glass
AG1T	1L Na Thiosulfate amber glass
AG1U	1liter unpres amber glass
AG2N	500mL HNO3 amber glass
AG2S	500mL H2SO4 amber glass
AG2U	500mL unpres amber glass
AG3S	250mL H2SO4 amber glass
AG3SF	250mL H2SO4 amb glass -field filtered
AG3U	250mL unpres amber glass
AG3C	250mL NaOH amber glass

Plastic	
BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic

Miscellaneous	
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
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 Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50370189

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370189001	MW-4S	Water	04/09/24 14:30	04/09/24 16:30
50370189002	MW-4I	Water	04/09/24 13:20	04/09/24 16:30
50370189003	MW-4D	Water	04/09/24 12:00	04/09/24 16:30
50370189004	MW-1S	Water	04/09/24 13:15	04/09/24 16:30
50370189005	MW-1I	Water	04/09/24 12:45	04/09/24 16:30
50370189006	MW-1D	Water	04/09/24 11:14	04/09/24 16:30
50370189007	MW-11S	Water	04/09/24 11:40	04/09/24 16:30
50370189008	MW-11I	Water	04/09/24 13:10	04/09/24 16:30
50370189009	MW-11D	Water	04/09/24 15:45	04/09/24 16:30
50370189010	MW-4D MS	Water	04/09/24 12:00	04/09/24 16:30
50370189011	MW-4D MSD	Water	04/09/24 12:00	04/09/24 16:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370189001	MW-4S	EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50370189002	MW-4I	EPA 9056	KBB
EPA 6010	NWB			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50370189003	MW-4D			EPA 9056	KBB
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370189

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370189004	MW-1S	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50370189005	MW-1I	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50370189006	MW-1D	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370189007	MW-11S	SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50370189008	MW-11I	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		50370189009	MW-11D	SM 5310C	YAM
EPA 9056	KBB			3	PASI-I
EPA 6010	NWB			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
50370189010	MW-4D MS	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
50370189011	MW-4D MSD	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370189

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370189001	MW-4S					
EPA 9056	Chloride	66.0	mg/L	2.5	04/19/24 11:20	
EPA 9056	Fluoride	0.26	mg/L	0.10	04/19/24 11:01	
EPA 9056	Sulfate	142	mg/L	2.5	04/19/24 11:20	
EPA 6010	Boron	465	ug/L	100	04/16/24 10:59	
EPA 6010	Calcium	91100	ug/L	1000	04/16/24 10:59	
EPA 6010	Magnesium	21200	ug/L	1000	04/16/24 10:59	
EPA 6010	Molybdenum	34.3	ug/L	10.0	04/16/24 10:59	
EPA 6010	Potassium	4200	ug/L	1000	04/16/24 10:59	
EPA 6010	Sodium	47500	ug/L	1000	04/16/24 10:59	
EPA 6010	Molybdenum, Dissolved	34.8	ug/L	10.0	04/16/24 01:03	
EPA 6020	Arsenic	2.3	ug/L	1.0	04/12/24 08:47	
EPA 6020	Barium	66.4	ug/L	1.0	04/12/24 08:47	
EPA 6020	Selenium	1.1	ug/L	1.0	04/12/24 08:47	
EPA 903.1	Radium-226	0.104 ± 0.478 (0.905)	pCi/L		04/26/24 14:05	
EPA 904.0	Radium-228	C:NA T:87% 0.262 ± 0.376 (0.807)	pCi/L		04/23/24 14:15	
		C:77% T:77%				
Total Radium Calculation	Total Radium	0.366 ± 0.854 (1.71)	pCi/L		04/29/24 11:00	
SM 2320B	Alkalinity, Total as CaCO3	201	mg/L	10.0	04/11/24 21:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	201	mg/L	10.0	04/11/24 21:23	
SM 2540C	Total Dissolved Solids	468	mg/L	10.0	04/11/24 10:08	
SM 4500-H+B	pH at 25 Degrees C	6.7	Std. Units	0.10	04/19/24 16:19	H3
EPA 353.2	Nitrogen, Nitrate	0.61	mg/L	0.10	04/10/24 01:49	
SM 5310C	Dissolved Organic Carbon	2.5	mg/L	1.0	04/16/24 23:37	
50370189002	MW-4I					
EPA 9056	Chloride	123	mg/L	2.5	04/19/24 11:59	
EPA 9056	Fluoride	0.40	mg/L	0.10	04/19/24 11:40	
EPA 9056	Sulfate	74.3	mg/L	2.5	04/19/24 11:59	
EPA 6010	Boron	112	ug/L	100	04/16/24 11:00	
EPA 6010	Calcium	84100	ug/L	1000	04/16/24 11:00	
EPA 6010	Iron	557	ug/L	100	04/16/24 11:00	
EPA 6010	Magnesium	27100	ug/L	1000	04/16/24 11:00	
EPA 6010	Manganese	160	ug/L	10.0	04/16/24 11:00	
EPA 6010	Molybdenum	12.4	ug/L	10.0	04/16/24 11:00	
EPA 6010	Potassium	3820	ug/L	1000	04/16/24 11:00	
EPA 6010	Sodium	63100	ug/L	1000	04/16/24 11:00	
EPA 6010	Molybdenum, Dissolved	11.8	ug/L	10.0	04/16/24 01:26	
EPA 6020	Arsenic	1.1	ug/L	1.0	04/12/24 08:50	
EPA 6020	Barium	81.2	ug/L	1.0	04/12/24 08:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370189002	MW-4I					
EPA 903.1	Radium-226	0.756 ± 0.653 (1.01) C:NA T:87%	pCi/L		04/26/24 14:05	
EPA 904.0	Radium-228	1.06 ± 0.552 (0.994) C:79% T:81%	pCi/L		04/23/24 14:16	
Total Radium Calculation	Total Radium	1.82 ± 1.21 (2.00)	pCi/L		04/29/24 11:00	
SM 2320B	Alkalinity, Total as CaCO3	251	mg/L	10.0	04/11/24 21:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	251	mg/L	10.0	04/11/24 21:23	
SM 2540C	Total Dissolved Solids	495	mg/L	10.0	04/11/24 10:08	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	04/19/24 16:20	H3
SM 5310C	Dissolved Organic Carbon	1.7	mg/L	1.0	04/17/24 00:08	
50370189003	MW-4D					
EPA 9056	Chloride	144	mg/L	2.5	04/19/24 12:38	
EPA 9056	Fluoride	0.33	mg/L	0.10	04/19/24 12:18	
EPA 9056	Sulfate	101	mg/L	2.5	04/19/24 12:38	
EPA 6010	Boron	127	ug/L	100	04/16/24 11:02	
EPA 6010	Calcium	105000	ug/L	1000	04/16/24 11:02	
EPA 6010	Iron	2290	ug/L	100	04/16/24 11:02	
EPA 6010	Magnesium	29400	ug/L	1000	04/16/24 11:02	
EPA 6010	Manganese	214	ug/L	10.0	04/16/24 11:02	
EPA 6010	Molybdenum	10.2	ug/L	10.0	04/16/24 11:02	
EPA 6010	Potassium	3520	ug/L	1000	04/16/24 11:02	
EPA 6010	Sodium	59500	ug/L	1000	04/16/24 11:02	
EPA 6010	Molybdenum, Dissolved	10.3	ug/L	10.0	04/16/24 01:28	
EPA 6020	Arsenic	6.1	ug/L	1.0	04/12/24 08:54	
EPA 6020	Barium	71.3	ug/L	1.0	04/12/24 08:54	
EPA 903.1	Radium-226	-0.403 ± 0.459 (1.01) C:NA T:85%	pCi/L		04/26/24 14:05	
EPA 904.0	Radium-228	0.958 ± 0.515 (0.933) C:80% T:78%	pCi/L		04/23/24 15:31	
Total Radium Calculation	Total Radium	0.958 ± 0.974 (1.94)	pCi/L		04/29/24 11:00	
SM 2320B	Alkalinity, Total as CaCO3	248	mg/L	10.0	04/11/24 21:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	04/11/24 21:23	
SM 2540C	Total Dissolved Solids	545	mg/L	10.0	04/11/24 10:08	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/19/24 16:21	H3
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	04/17/24 00:19	
50370189004	MW-1S					
EPA 9056	Chloride	28.7	mg/L	2.5	04/19/24 15:12	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370189004	MW-1S					
EPA 9056	Fluoride	0.11	mg/L	0.10	04/19/24 14:53	
EPA 9056	Sulfate	197	mg/L	2.5	04/19/24 15:12	
EPA 6010	Boron	2400	ug/L	100	04/16/24 11:09	
EPA 6010	Calcium	198000	ug/L	1000	04/16/24 11:09	
EPA 6010	Lithium	53.3	ug/L	20.0	04/16/24 11:09	
EPA 6010	Magnesium	42300	ug/L	1000	04/16/24 11:09	
EPA 6010	Manganese	10.5	ug/L	10.0	04/16/24 11:09	
EPA 6010	Molybdenum	13.4	ug/L	10.0	04/16/24 11:09	
EPA 6010	Potassium	6060	ug/L	1000	04/16/24 11:09	
EPA 6010	Sodium	35500	ug/L	1000	04/16/24 11:09	
EPA 6010	Molybdenum, Dissolved	13.3	ug/L	10.0	04/16/24 01:10	
EPA 6020	Arsenic	2.1	ug/L	1.0	04/12/24 09:18	
EPA 6020	Barium	65.0	ug/L	1.0	04/12/24 09:18	
EPA 6020	Selenium	17.9	ug/L	1.0	04/12/24 09:18	
EPA 903.1	Radium-226	0.138 ± 0.326 (0.605)	pCi/L		04/26/24 14:05	
EPA 904.0	Radium-228	0.249 ± 0.394 (0.853)	pCi/L		04/23/24 12:15	
		C:NA T:92%				
		C:81%				
		T:86%				
Total Radium Calculation	Total Radium	0.387 ± 0.720 (1.46)	pCi/L		04/29/24 11:00	
SM 2320B	Alkalinity, Total as CaCO3	520	mg/L	10.0	04/11/24 21:23	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	520	mg/L	10.0	04/11/24 21:23	
SM 2540C	Total Dissolved Solids	788	mg/L	20.0	04/11/24 10:08	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	04/19/24 16:22	H3
EPA 353.2	Nitrogen, Nitrate	1.9	mg/L	0.10	04/10/24 01:41	
SM 5310C	Dissolved Organic Carbon	2.2	mg/L	1.0	04/17/24 00:52	
50370189005	MW-1I					
EPA 9056	Chloride	105	mg/L	2.5	04/19/24 15:51	
EPA 9056	Fluoride	0.35	mg/L	0.10	04/19/24 15:32	
EPA 9056	Sulfate	95.1	mg/L	2.5	04/19/24 15:51	
EPA 6010	Boron	405	ug/L	100	04/16/24 11:11	
EPA 6010	Calcium	68000	ug/L	1000	04/16/24 11:11	
EPA 6010	Lithium	73.7	ug/L	20.0	04/16/24 11:11	
EPA 6010	Magnesium	22100	ug/L	1000	04/16/24 11:11	
EPA 6010	Manganese	195	ug/L	10.0	04/16/24 11:11	
EPA 6010	Molybdenum	95.6	ug/L	10.0	04/16/24 11:11	
EPA 6010	Potassium	7640	ug/L	1000	04/16/24 11:11	
EPA 6010	Sodium	79200	ug/L	1000	04/16/24 11:11	
EPA 6010	Molybdenum, Dissolved	93.4	ug/L	10.0	04/16/24 01:11	
EPA 6020	Barium	41.9	ug/L	1.0	04/12/24 09:28	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370189005	MW-1I					
EPA 903.1	Radium-226	0.604 ± 0.603 (0.956) C:NA T:86%	pCi/L		04/26/24 14:05	
EPA 904.0	Radium-228	0.555 ± 0.453 (0.906) C:78% T:76%	pCi/L		04/23/24 12:15	
Total Radium Calculation	Total Radium	1.16 ± 1.06 (1.86)	pCi/L		04/29/24 11:00	
SM 2320B	Alkalinity, Total as CaCO3	228	mg/L	10.0	04/11/24 21:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	218	mg/L	10.0	04/11/24 21:23	
SM 2320B	Alkalinity,Carbonate (CaCO3)	10.0	mg/L	10.0	04/11/24 21:23	
SM 2540C	Total Dissolved Solids	472	mg/L	10.0	04/11/24 10:08	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/19/24 16:23	H3
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	04/17/24 01:03	
50370189006	MW-1D					
EPA 9056	Chloride	106	mg/L	2.5	04/19/24 16:30	
EPA 9056	Fluoride	0.42	mg/L	0.10	04/19/24 16:11	
EPA 9056	Sulfate	85.3	mg/L	2.5	04/19/24 16:30	
EPA 6010	Boron	317	ug/L	100	04/16/24 11:15	
EPA 6010	Calcium	71800	ug/L	1000	04/16/24 11:15	
EPA 6010	Iron	533	ug/L	100	04/16/24 11:15	
EPA 6010	Lithium	81.5	ug/L	20.0	04/16/24 11:15	
EPA 6010	Magnesium	22700	ug/L	1000	04/16/24 11:15	
EPA 6010	Manganese	306	ug/L	10.0	04/16/24 11:15	
EPA 6010	Molybdenum	96.6	ug/L	10.0	04/16/24 11:15	
EPA 6010	Potassium	7680	ug/L	1000	04/16/24 11:15	
EPA 6010	Sodium	65400	ug/L	1000	04/16/24 11:15	
EPA 6010	Molybdenum, Dissolved	94.6	ug/L	10.0	04/16/24 01:15	
EPA 6020	Arsenic	1.9	ug/L	1.0	04/12/24 09:31	
EPA 6020	Barium	57.6	ug/L	1.0	04/12/24 09:31	
EPA 903.1	Radium-226	-0.0568 ± 0.579 (1.14) C:NA T:82%	pCi/L		04/26/24 14:05	
EPA 904.0	Radium-228	1.44 ± 0.650 (1.13) C:76% T:73%	pCi/L		04/23/24 12:15	
Total Radium Calculation	Total Radium	1.44 ± 1.23 (2.27)	pCi/L		04/29/24 11:00	
SM 2320B	Alkalinity, Total as CaCO3	217	mg/L	10.0	04/11/24 21:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	204	mg/L	10.0	04/11/24 21:23	
SM 2320B	Alkalinity,Carbonate (CaCO3)	12.8	mg/L	10.0	04/11/24 21:23	
SM 2540C	Total Dissolved Solids	463	mg/L	10.0	04/11/24 10:10	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/19/24 16:24	H3
SM 5310C	Dissolved Organic Carbon	3.3	mg/L	1.0	04/17/24 01:14	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370189007	MW-11S					
EPA 9056	Chloride	42.6	mg/L	2.5	04/19/24 17:47	
EPA 9056	Fluoride	0.18	mg/L	0.10	04/19/24 17:28	
EPA 9056	Sulfate	107	mg/L	2.5	04/19/24 17:47	
EPA 6010	Boron	807	ug/L	100	04/16/24 11:17	
EPA 6010	Calcium	118000	ug/L	1000	04/16/24 11:17	
EPA 6010	Lithium	43.1	ug/L	20.0	04/16/24 11:17	
EPA 6010	Magnesium	24000	ug/L	1000	04/16/24 11:17	
EPA 6010	Molybdenum	72.0	ug/L	10.0	04/16/24 11:17	
EPA 6010	Potassium	5320	ug/L	1000	04/16/24 11:17	
EPA 6010	Sodium	29200	ug/L	1000	04/16/24 11:17	
EPA 6010	Molybdenum, Dissolved	72.1	ug/L	10.0	04/16/24 01:17	
EPA 6020	Antimony	1.3	ug/L	1.0	04/12/24 09:35	
EPA 6020	Arsenic	76.5	ug/L	1.0	04/12/24 09:35	
EPA 6020	Barium	79.9	ug/L	1.0	04/12/24 09:35	
EPA 6020	Selenium	10.6	ug/L	1.0	04/12/24 09:35	
EPA 903.1	Radium-226	-0.0552 ± 0.446 (0.920)	pCi/L		04/26/24 14:05	
EPA 904.0	Radium-228	0.720 ± 0.511 (1.01) C:74% T:80%	pCi/L		04/23/24 12:16	
Total Radium Calculation	Total Radium	0.720 ± 0.957 (1.93)	pCi/L		04/29/24 11:00	
SM 2320B	Alkalinity, Total as CaCO3	304	mg/L	10.0	04/11/24 21:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	304	mg/L	10.0	04/11/24 21:23	
SM 2540C	Total Dissolved Solids	484	mg/L	10.0	04/11/24 10:10	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/19/24 16:24	H3
EPA 353.2	Nitrogen, Nitrate	1.7	mg/L	0.10	04/10/24 01:30	
SM 5310C	Dissolved Organic Carbon	1.9	mg/L	1.0	04/17/24 01:24	
50370189008	MW-11I					
EPA 9056	Chloride	106	mg/L	2.5	04/19/24 18:26	
EPA 9056	Fluoride	0.46	mg/L	0.10	04/19/24 18:07	
EPA 9056	Sulfate	104	mg/L	2.5	04/19/24 18:26	
EPA 6010	Boron	634	ug/L	100	04/16/24 11:19	
EPA 6010	Calcium	76100	ug/L	1000	04/16/24 11:19	
EPA 6010	Iron	135	ug/L	100	04/16/24 11:19	
EPA 6010	Lithium	91.1	ug/L	20.0	04/16/24 11:19	
EPA 6010	Magnesium	24000	ug/L	1000	04/16/24 11:19	
EPA 6010	Manganese	212	ug/L	10.0	04/16/24 11:19	
EPA 6010	Molybdenum	127	ug/L	10.0	04/16/24 11:19	
EPA 6010	Potassium	8700	ug/L	1000	04/16/24 11:19	
EPA 6010	Sodium	72800	ug/L	1000	04/16/24 11:19	
EPA 6010	Molybdenum, Dissolved	128	ug/L	10.0	04/16/24 01:18	
EPA 6020	Barium	57.0	ug/L	1.0	04/12/24 09:38	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370189008	MW-11I					
EPA 903.1	Radium-226	0.111 ± 0.708 (1.31) C:NA T:84%	pCi/L		04/26/24 14:05	
EPA 904.0	Radium-228	0.758 ± 0.505 (0.979) C:79% T:75%	pCi/L		04/23/24 12:16	
Total Radium Calculation	Total Radium	0.869 ± 1.21 (2.29)	pCi/L		04/29/24 11:00	
SM 2320B	Alkalinity, Total as CaCO3	234	mg/L	10.0	04/11/24 21:21	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	221	mg/L	10.0	04/11/24 21:21	
SM 2320B	Alkalinity,Carbonate (CaCO3)	12.8	mg/L	10.0	04/11/24 21:21	
SM 2540C	Total Dissolved Solids	496	mg/L	10.0	04/11/24 10:10	
SM 4500-H+B	pH at 25 Degrees C	6.6	Std. Units	0.10	04/19/24 16:25	H3
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	04/17/24 01:41	
50370189009	MW-11D					
EPA 9056	Chloride	92.3	mg/L	2.5	04/19/24 19:05	
EPA 9056	Fluoride	0.34	mg/L	0.10	04/19/24 18:45	
EPA 9056	Sulfate	86.1	mg/L	2.5	04/19/24 19:05	
EPA 6010	Boron	620	ug/L	100	04/16/24 11:20	
EPA 6010	Calcium	75700	ug/L	1000	04/16/24 11:20	
EPA 6010	Iron	1240	ug/L	100	04/16/24 11:20	
EPA 6010	Lithium	79.7	ug/L	20.0	04/16/24 11:20	
EPA 6010	Magnesium	19800	ug/L	1000	04/16/24 11:20	
EPA 6010	Manganese	264	ug/L	10.0	04/16/24 11:20	
EPA 6010	Molybdenum	125	ug/L	10.0	04/16/24 11:20	
EPA 6010	Potassium	6880	ug/L	1000	04/16/24 11:20	
EPA 6010	Sodium	64000	ug/L	1000	04/16/24 11:20	
EPA 6010	Molybdenum, Dissolved	129	ug/L	10.0	04/16/24 01:19	
EPA 6020	Arsenic	4.4	ug/L	1.0	04/12/24 09:42	
EPA 6020	Barium	60.8	ug/L	1.0	04/12/24 09:42	
EPA 903.1	Radium-226	0.568 ± 0.477 (0.682) C:NA T:89%	pCi/L		04/26/24 14:18	
EPA 904.0	Radium-228	1.07 ± 0.560 (1.01) C:86% T:75%	pCi/L		04/23/24 15:36	
Total Radium Calculation	Total Radium	1.64 ± 1.04 (1.69)	pCi/L		04/29/24 11:00	
SM 2320B	Alkalinity, Total as CaCO3	230	mg/L	10.0	04/11/24 21:21	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	230	mg/L	10.0	04/11/24 21:21	
SM 2540C	Total Dissolved Solids	440	mg/L	10.0	04/11/24 10:10	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	04/19/24 16:26	H3
SM 5310C	Dissolved Organic Carbon	1.2	mg/L	1.0	04/17/24 02:23	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370189010	MW-4D MS					
EPA 903.1	Radium-226	140.23 %REC ± NA (NA) C:NA T:NA	pCi/L		04/26/24 14:18	1d
EPA 904.0	Radium-228	99.91 %REC ± NA (NA) C:NA T:NA	pCi/L		04/23/24 15:31	
50370189011	MW-4D MSD					
EPA 903.1	Radium-226	101.72 %REC 31.83RPD ± NA (NA) C:NA T:NA	pCi/L		04/26/24 14:18	
EPA 904.0	Radium-228	86.54 %REC 14.35RPD ± NA (NA) C:NA T:NA	pCi/L		04/23/24 15:31	

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4S Lab ID: 50370189001 Collected: 04/09/24 14:30 Received: 04/09/24 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	66.0	mg/L	2.5	0.67	10		04/19/24 11:20	16887-00-6	
Fluoride	0.26	mg/L	0.10	0.017	1		04/19/24 11:01	16984-48-8	
Sulfate	142	mg/L	2.5	1.9	10		04/19/24 11:20	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	465	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 10:59	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 10:59	7440-43-9	
Calcium	91100	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 10:59	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 10:59	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 10:59	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 10:59	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 10:59	7439-93-2	
Magnesium	21200	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 10:59	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 10:59	7439-96-5	
Molybdenum	34.3	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 10:59	7439-98-7	
Potassium	4200	ug/L	1000	120	1	04/14/24 21:10	04/16/24 10:59	7440-09-7	
Sodium	47500	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 10:59	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	34.8	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:03	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 08:47	7440-36-0	
Arsenic	2.3	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 08:47	7440-38-2	
Barium	66.4	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 08:47	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 08:47	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 08:47	7440-48-4	
Selenium	1.1	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 08:47	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 08:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 21:49	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	201	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Bicarbonate (CaCO3)	201	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/11/24 21:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4S Lab ID: 50370189001 Collected: 04/09/24 14:30 Received: 04/09/24 16:30 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	468	mg/L	10.0	10.0	1		04/11/24 10:08		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.7	Std. Units	0.10	0.10	1		04/19/24 16:19		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	0.61	mg/L	0.10	0.013	1		04/10/24 01:49	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	2.5	mg/L	1.0	0.25	1		04/16/24 23:37		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4I **Lab ID: 50370189002** Collected: 04/09/24 13:20 Received: 04/09/24 16:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	123	mg/L	2.5	0.67	10		04/19/24 11:59	16887-00-6	
Fluoride	0.40	mg/L	0.10	0.017	1		04/19/24 11:40	16984-48-8	
Sulfate	74.3	mg/L	2.5	1.9	10		04/19/24 11:59	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	112	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 11:00	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 11:00	7440-43-9	
Calcium	84100	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 11:00	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 11:00	7440-47-3	
Iron	557	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 11:00	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 11:00	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 11:00	7439-93-2	
Magnesium	27100	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 11:00	7439-95-4	
Manganese	160	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:00	7439-96-5	
Molybdenum	12.4	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:00	7439-98-7	
Potassium	3820	ug/L	1000	120	1	04/14/24 21:10	04/16/24 11:00	7440-09-7	
Sodium	63100	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 11:00	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	11.8	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:26	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 08:50	7440-36-0	
Arsenic	1.1	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 08:50	7440-38-2	
Barium	81.2	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 08:50	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 08:50	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 08:50	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 08:50	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 08:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 21:52	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	251	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Bicarbonate (CaCO3)	251	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/11/24 21:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4I		Lab ID: 50370189002		Collected: 04/09/24 13:20	Received: 04/09/24 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	495	mg/L	10.0	10.0	1		04/11/24 10:08		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.0	Std. Units	0.10	0.10	1		04/19/24 16:20		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/10/24 01:47	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.7	mg/L	1.0	0.25	1		04/17/24 00:08		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4D **Lab ID: 50370189003** Collected: 04/09/24 12:00 Received: 04/09/24 16:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	144	mg/L	2.5	0.67	10		04/19/24 12:38	16887-00-6	
Fluoride	0.33	mg/L	0.10	0.017	1		04/19/24 12:18	16984-48-8	
Sulfate	101	mg/L	2.5	1.9	10		04/19/24 12:38	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	127	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 11:02	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 11:02	7440-43-9	
Calcium	105000	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 11:02	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 11:02	7440-47-3	
Iron	2290	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 11:02	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 11:02	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 11:02	7439-93-2	
Magnesium	29400	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 11:02	7439-95-4	
Manganese	214	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:02	7439-96-5	
Molybdenum	10.2	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:02	7439-98-7	
Potassium	3520	ug/L	1000	120	1	04/14/24 21:10	04/16/24 11:02	7440-09-7	
Sodium	59500	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 11:02	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	10.3	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:28	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 08:54	7440-36-0	
Arsenic	6.1	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 08:54	7440-38-2	
Barium	71.3	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 08:54	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 08:54	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 08:54	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 08:54	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 08:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 21:54	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	248	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Bicarbonate (CaCO3)	248	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/11/24 21:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4D		Lab ID: 50370189003		Collected: 04/09/24 12:00	Received: 04/09/24 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	545	mg/L	10.0	10.0	1		04/11/24 10:08		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.1	Std. Units	0.10	0.10	1		04/19/24 16:21		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/10/24 01:32	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.4	mg/L	1.0	0.25	1		04/17/24 00:19		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370189

Sample: MW-1S **Lab ID: 50370189004** Collected: 04/09/24 13:15 Received: 04/09/24 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	28.7	mg/L	2.5	0.67	10		04/19/24 15:12	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.017	1		04/19/24 14:53	16984-48-8	
Sulfate	197	mg/L	2.5	1.9	10		04/19/24 15:12	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	2400	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 11:09	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 11:09	7440-43-9	
Calcium	198000	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 11:09	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 11:09	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 11:09	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 11:09	7439-92-1	
Lithium	53.3	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 11:09	7439-93-2	
Magnesium	42300	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 11:09	7439-95-4	
Manganese	10.5	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:09	7439-96-5	
Molybdenum	13.4	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:09	7439-98-7	
Potassium	6060	ug/L	1000	120	1	04/14/24 21:10	04/16/24 11:09	7440-09-7	
Sodium	35500	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 11:09	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	13.3	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:10	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 09:18	7440-36-0	
Arsenic	2.1	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 09:18	7440-38-2	
Barium	65.0	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 09:18	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 09:18	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 09:18	7440-48-4	
Selenium	17.9	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 09:18	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 09:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 22:02	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	520	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Bicarbonate (CaCO3)	520	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/11/24 21:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-1S		Lab ID: 50370189004		Collected: 04/09/24 13:15	Received: 04/09/24 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	788	mg/L	20.0	20.0	1		04/11/24 10:08		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.9	Std. Units	0.10	0.10	1		04/19/24 16:22		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.9	mg/L	0.10	0.013	1		04/10/24 01:41	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	2.2	mg/L	1.0	0.25	1		04/17/24 00:52		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-11 Lab ID: 50370189005 Collected: 04/09/24 12:45 Received: 04/09/24 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	105	mg/L	2.5	0.67	10		04/19/24 15:51	16887-00-6	
Fluoride	0.35	mg/L	0.10	0.017	1		04/19/24 15:32	16984-48-8	
Sulfate	95.1	mg/L	2.5	1.9	10		04/19/24 15:51	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	405	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 11:11	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 11:11	7440-43-9	
Calcium	68000	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 11:11	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 11:11	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 11:11	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 11:11	7439-92-1	
Lithium	73.7	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 11:11	7439-93-2	
Magnesium	22100	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 11:11	7439-95-4	
Manganese	195	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:11	7439-96-5	
Molybdenum	95.6	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:11	7439-98-7	
Potassium	7640	ug/L	1000	120	1	04/14/24 21:10	04/16/24 11:11	7440-09-7	
Sodium	79200	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 11:11	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	93.4	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:11	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 09:28	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 09:28	7440-38-2	
Barium	41.9	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 09:28	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 09:28	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 09:28	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 09:28	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 09:28	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 22:04	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	228	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Bicarbonate (CaCO3)	218	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Carbonate (CaCO3)	10.0	mg/L	10.0	10.0	1		04/11/24 21:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-11 Lab ID: 50370189005 Collected: 04/09/24 12:45 Received: 04/09/24 16:30 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	472	mg/L	10.0	10.0	1		04/11/24 10:08		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/19/24 16:23		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/10/24 01:38	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.4	mg/L	1.0	0.25	1		04/17/24 01:03		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-1D		Lab ID: 50370189006		Collected: 04/09/24 11:14		Received: 04/09/24 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	106	mg/L	2.5	0.67	10		04/19/24 16:30	16887-00-6	
Fluoride	0.42	mg/L	0.10	0.017	1		04/19/24 16:11	16984-48-8	
Sulfate	85.3	mg/L	2.5	1.9	10		04/19/24 16:30	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	317	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 11:15	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 11:15	7440-43-9	
Calcium	71800	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 11:15	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 11:15	7440-47-3	
Iron	533	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 11:15	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 11:15	7439-92-1	
Lithium	81.5	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 11:15	7439-93-2	
Magnesium	22700	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 11:15	7439-95-4	
Manganese	306	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:15	7439-96-5	
Molybdenum	96.6	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:15	7439-98-7	
Potassium	7680	ug/L	1000	120	1	04/14/24 21:10	04/16/24 11:15	7440-09-7	
Sodium	65400	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 11:15	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	94.6	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:15	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 09:31	7440-36-0	
Arsenic	1.9	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 09:31	7440-38-2	
Barium	57.6	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 09:31	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 09:31	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 09:31	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 09:31	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 09:31	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 22:07	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	217	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Bicarbonate (CaCO3)	204	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Carbonate (CaCO3)	12.8	mg/L	10.0	10.0	1		04/11/24 21:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-1D		Lab ID: 50370189006		Collected: 04/09/24 11:14	Received: 04/09/24 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	463	mg/L	10.0	10.0	1		04/11/24 10:10		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		04/19/24 16:24		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/10/24 01:28	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	3.3	mg/L	1.0	0.25	1		04/17/24 01:14		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-11S Lab ID: 50370189007 Collected: 04/09/24 11:40 Received: 04/09/24 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	42.6	mg/L	2.5	0.67	10		04/19/24 17:47	16887-00-6	
Fluoride	0.18	mg/L	0.10	0.017	1		04/19/24 17:28	16984-48-8	
Sulfate	107	mg/L	2.5	1.9	10		04/19/24 17:47	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	807	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 11:17	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 11:17	7440-43-9	
Calcium	118000	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 11:17	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 11:17	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 11:17	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 11:17	7439-92-1	
Lithium	43.1	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 11:17	7439-93-2	
Magnesium	24000	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 11:17	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:17	7439-96-5	
Molybdenum	72.0	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:17	7439-98-7	
Potassium	5320	ug/L	1000	120	1	04/14/24 21:10	04/16/24 11:17	7440-09-7	
Sodium	29200	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 11:17	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	72.1	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:17	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	1.3	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 09:35	7440-36-0	
Arsenic	76.5	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 09:35	7440-38-2	
Barium	79.9	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 09:35	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 09:35	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 09:35	7440-48-4	
Selenium	10.6	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 09:35	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 09:35	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 22:14	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	304	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Bicarbonate (CaCO3)	304	mg/L	10.0	10.0	1		04/11/24 21:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/11/24 21:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-11S		Lab ID: 50370189007		Collected: 04/09/24 11:40	Received: 04/09/24 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	484	mg/L	10.0	10.0	1		04/11/24 10:10		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/19/24 16:24		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.7	mg/L	0.10	0.013	1		04/10/24 01:30	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.9	mg/L	1.0	0.25	1		04/17/24 01:24		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-111 **Lab ID: 50370189008** Collected: 04/09/24 13:10 Received: 04/09/24 16:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	106	mg/L	2.5	0.67	10		04/19/24 18:26	16887-00-6	
Fluoride	0.46	mg/L	0.10	0.017	1		04/19/24 18:07	16984-48-8	
Sulfate	104	mg/L	2.5	1.9	10		04/19/24 18:26	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	634	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 11:19	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 11:19	7440-43-9	
Calcium	76100	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 11:19	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 11:19	7440-47-3	
Iron	135	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 11:19	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 11:19	7439-92-1	
Lithium	91.1	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 11:19	7439-93-2	
Magnesium	24000	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 11:19	7439-95-4	
Manganese	212	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:19	7439-96-5	
Molybdenum	127	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:19	7439-98-7	
Potassium	8700	ug/L	1000	120	1	04/14/24 21:10	04/16/24 11:19	7440-09-7	
Sodium	72800	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 11:19	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	128	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:18	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 09:38	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 09:38	7440-38-2	
Barium	57.0	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 09:38	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 09:38	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 09:38	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 09:38	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 09:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 22:16	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	234	mg/L	10.0	10.0	1		04/11/24 21:21		
Alkalinity,Bicarbonate (CaCO3)	221	mg/L	10.0	10.0	1		04/11/24 21:21		
Alkalinity,Carbonate (CaCO3)	12.8	mg/L	10.0	10.0	1		04/11/24 21:21		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-111		Lab ID: 50370189008		Collected: 04/09/24 13:10	Received: 04/09/24 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	496	mg/L	10.0	10.0	1		04/11/24 10:10		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.6	Std. Units	0.10	0.10	1		04/19/24 16:25		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/10/24 01:39	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.4	mg/L	1.0	0.25	1		04/17/24 01:41		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-11D **Lab ID: 50370189009** Collected: 04/09/24 15:45 Received: 04/09/24 16:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	92.3	mg/L	2.5	0.67	10		04/19/24 19:05	16887-00-6	
Fluoride	0.34	mg/L	0.10	0.017	1		04/19/24 18:45	16984-48-8	
Sulfate	86.1	mg/L	2.5	1.9	10		04/19/24 19:05	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	620	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 11:20	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 11:20	7440-43-9	
Calcium	75700	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 11:20	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 11:20	7440-47-3	
Iron	1240	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 11:20	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 11:20	7439-92-1	
Lithium	79.7	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 11:20	7439-93-2	
Magnesium	19800	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 11:20	7439-95-4	
Manganese	264	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:20	7439-96-5	
Molybdenum	125	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:20	7439-98-7	
Potassium	6880	ug/L	1000	120	1	04/14/24 21:10	04/16/24 11:20	7440-09-7	
Sodium	64000	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 11:20	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	129	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:19	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 09:42	7440-36-0	
Arsenic	4.4	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 09:42	7440-38-2	
Barium	60.8	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 09:42	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 09:42	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 09:42	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 09:42	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 09:42	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 22:19	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	230	mg/L	10.0	10.0	1		04/11/24 21:21		
Alkalinity,Bicarbonate (CaCO3)	230	mg/L	10.0	10.0	1		04/11/24 21:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/11/24 21:21		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-11D		Lab ID: 50370189009		Collected: 04/09/24 15:45	Received: 04/09/24 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	440	mg/L	10.0	10.0	1		04/11/24 10:10		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.8	Std. Units	0.10	0.10	1		04/19/24 16:26		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/10/24 01:50	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.2	mg/L	1.0	0.25	1		04/17/24 02:23		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370189

QC Batch: 784370 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

METHOD BLANK: 3588330 Matrix: Water
 Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/18/24 18:52	
Fluoride	mg/L	ND	0.10	0.017	04/18/24 18:52	
Sulfate	mg/L	ND	0.25	0.19	04/18/24 18:52	

LABORATORY CONTROL SAMPLE: 3588331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	99	80-120	
Fluoride	mg/L	1	1.1	105	80-120	
Sulfate	mg/L	5	5.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588332 3588333

Parameter	Units	50370189003		3588333		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Chloride	mg/L	144	25	25	158	159	60	61	80-120	0	15	M0
Fluoride	mg/L	0.33	1	1	1.4	1.4	108	105	80-120	2	15	
Sulfate	mg/L	101	50	50	131	131	58	59	80-120	0	15	M0

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

QC Batch: 784955 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

METHOD BLANK: 3591200 Matrix: Water
 Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/17/24 21:44	

LABORATORY CONTROL SAMPLE: 3591201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591202 3591203

Parameter	Units	50370189003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.4	5.1	108	103	75-125	5	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

QC Batch:	784181	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

METHOD BLANK: 3587692 Matrix: Water

Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	11.4	04/16/24 10:52	
Cadmium	ug/L	ND	2.0	0.74	04/16/24 10:52	
Calcium	ug/L	ND	1000	56.7	04/16/24 10:52	
Chromium	ug/L	ND	10.0	1.4	04/16/24 10:52	
Iron	ug/L	ND	100	18.1	04/16/24 10:52	
Lead	ug/L	ND	10.0	4.0	04/16/24 10:52	
Lithium	ug/L	ND	20.0	5.1	04/16/24 10:52	
Magnesium	ug/L	ND	1000	32.8	04/16/24 10:52	
Manganese	ug/L	ND	10.0	1.1	04/16/24 10:52	
Molybdenum	ug/L	ND	10.0	1.1	04/16/24 10:52	
Potassium	ug/L	ND	1000	120	04/16/24 10:52	
Sodium	ug/L	ND	1000	48.2	04/16/24 10:52	

LABORATORY CONTROL SAMPLE: 3587693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	923	92	80-120	
Cadmium	ug/L	1000	938	94	80-120	
Calcium	ug/L	10000	9600	96	80-120	
Chromium	ug/L	1000	963	96	80-120	
Iron	ug/L	10000	9490	95	80-120	
Lead	ug/L	1000	926	93	80-120	
Lithium	ug/L	1000	954	95	80-120	
Magnesium	ug/L	10000	9360	94	80-120	
Manganese	ug/L	1000	950	95	80-120	
Molybdenum	ug/L	1000	987	99	80-120	
Potassium	ug/L	10000	9280	93	80-120	
Sodium	ug/L	10000	9290	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587694 3587695

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370189003 Result	Spike Conc.	Spike Conc.	Result						
Boron	ug/L	127	1000	1000	1070	1040	94	92	75-125	2	20
Cadmium	ug/L	ND	1000	1000	936	905	94	90	75-125	3	20
Calcium	ug/L	105000	10000	10000	113000	109000	82	45	75-125	3	20 P6

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587694 3587695											
Parameter	Units	50370189003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Chromium	ug/L	ND	1000	1000	943	914	94	91	75-125	3	20
Iron	ug/L	2290	10000	10000	11600	11200	93	89	75-125	3	20
Lead	ug/L	ND	1000	1000	893	865	89	86	75-125	3	20
Lithium	ug/L	ND	1000	1000	943	918	94	91	75-125	3	20
Magnesium	ug/L	29400	10000	10000	38300	37000	89	76	75-125	3	20
Manganese	ug/L	214	1000	1000	1140	1100	93	89	75-125	3	20
Molybdenum	ug/L	10.2	1000	1000	997	964	99	95	75-125	3	20
Potassium	ug/L	3520	10000	10000	12700	12300	92	88	75-125	4	20
Sodium	ug/L	59500	10000	10000	68000	65600	85	61	75-125	4	20 P6

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370189

QC Batch: 784179 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

METHOD BLANK: 3587684 Matrix: Water
 Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/16/24 00:41	

LABORATORY CONTROL SAMPLE: 3587685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	979	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587686 3587687

Parameter	Units	50370083005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	1040	101	103	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587688 3587689

Parameter	Units	50370189003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum, Dissolved	ug/L	10.3	1000	1000	1020	1020	101	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50370189

QC Batch: 784213 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

METHOD BLANK: 3587769 Matrix: Water
Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	04/12/24 08:40	
Arsenic	ug/L	ND	1.0	0.064	04/12/24 08:40	
Barium	ug/L	ND	1.0	0.067	04/12/24 08:40	
Beryllium	ug/L	ND	0.20	0.026	04/12/24 08:40	
Cobalt	ug/L	ND	1.0	0.024	04/12/24 08:40	
Selenium	ug/L	ND	1.0	0.23	04/12/24 08:40	
Thallium	ug/L	ND	1.0	0.042	04/12/24 08:40	

LABORATORY CONTROL SAMPLE: 3587770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.0	103	80-120	
Arsenic	ug/L	40	38.9	97	80-120	
Barium	ug/L	40	38.7	97	80-120	
Beryllium	ug/L	40	43.1	108	80-120	
Cobalt	ug/L	40	40.2	101	80-120	
Selenium	ug/L	40	37.7	94	80-120	
Thallium	ug/L	40	40.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587771 3587772

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370189003 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	ug/L	ND	40	40	40	41.3	41.9	103	104	75-125	1	20	
Arsenic	ug/L	6.1	40	40	40	45.0	44.3	97	96	75-125	1	20	
Barium	ug/L	71.3	40	40	40	112	112	103	102	75-125	0	20	
Beryllium	ug/L	ND	40	40	40	44.6	44.1	111	110	75-125	1	20	
Cobalt	ug/L	ND	40	40	40	37.8	37.7	94	93	75-125	0	20	
Selenium	ug/L	ND	40	40	40	37.1	37.1	92	93	75-125	0	20	
Thallium	ug/L	ND	40	40	40	41.9	42.3	105	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

QC Batch:	784579	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007		

METHOD BLANK: 3589275 Matrix: Water
 Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/11/24 21:23	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/11/24 21:23	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/11/24 21:23	

LABORATORY CONTROL SAMPLE: 3589276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	90-110	

SAMPLE DUPLICATE: 3589277

Parameter	Units	50369952001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	355	360	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	355	360	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3589278

Parameter	Units	50370189003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	248	254	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	248	254	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

QC Batch:	784580	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370189008, 50370189009

METHOD BLANK: 3589281 Matrix: Water

Associated Lab Samples: 50370189008, 50370189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/11/24 21:21	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/11/24 21:21	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/11/24 21:21	

LABORATORY CONTROL SAMPLE: 3589282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	90-110	

SAMPLE DUPLICATE: 3589283

Parameter	Units	50370067001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	3060	2960	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	3060	2960	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3589284

Parameter	Units	50370104001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	175	181	3	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	158	161	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	17.2	19.2	11	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

QC Batch:	784417	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

METHOD BLANK: 3588592 Matrix: Water

Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/11/24 10:06	

LABORATORY CONTROL SAMPLE: 3588593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	80-120	

SAMPLE DUPLICATE: 3588594

Parameter	Units	50370278011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	297	312	5	10	

SAMPLE DUPLICATE: 3588595

Parameter	Units	50370189003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	545	560	3	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

QC Batch:	785858	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

SAMPLE DUPLICATE: 3595039

Parameter	Units	50370189003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3595040

Parameter	Units	50370280006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

QC Batch:	784185	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009		

METHOD BLANK:	3587711	Matrix:	Water
Associated Lab Samples:	50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/10/24 01:24	

LABORATORY CONTROL SAMPLE: 3587712						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587713												3587714	
Parameter	Units	50370189003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, Nitrate	mg/L	ND	1	1	1.0	1.0	101	100	90-110	0	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370189

QC Batch: 784972 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

METHOD BLANK: 3591293 Matrix: Water
 Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/16/24 20:50	

LABORATORY CONTROL SAMPLE: 3591294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591295 3591296

Parameter	Units	50370189003		50370189008		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Dissolved Organic Carbon	mg/L	1.4	10	10	9.8	9.5	84	82	80-120	3	20		

MATRIX SPIKE SAMPLE: 3591297

Parameter	Units	50370189008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.4	10	9.5	81	80-120	

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4S **Lab ID: 50370189001** Collected: 04/09/24 14:30 Received: 04/09/24 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.104 ± 0.478 (0.905) C:NA T:87%	pCi/L	04/26/24 14:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.262 ± 0.376 (0.807) C:77% T:77%	pCi/L	04/23/24 14:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.366 ± 0.854 (1.71)	pCi/L	04/29/24 11:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.756 ± 0.653 (1.01) C:NA T:87%	pCi/L	04/26/24 14:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.06 ± 0.552 (0.994) C:79% T:81%	pCi/L	04/23/24 14:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.82 ± 1.21 (2.00)	pCi/L	04/29/24 11:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4D **Lab ID: 50370189003** Collected: 04/09/24 12:00 Received: 04/09/24 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.403 ± 0.459 (1.01) C:NA T:85%	pCi/L	04/26/24 14:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.958 ± 0.515 (0.933) C:80% T:78%	pCi/L	04/23/24 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.958 ± 0.974 (1.94)	pCi/L	04/29/24 11:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-1S **Lab ID: 50370189004** Collected: 04/09/24 13:15 Received: 04/09/24 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.138 ± 0.326 (0.605) C:NA T:92%	pCi/L	04/26/24 14:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.249 ± 0.394 (0.853) C:81% T:86%	pCi/L	04/23/24 12:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.387 ± 0.720 (1.46)	pCi/L	04/29/24 11:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-11 **Lab ID: 50370189005** Collected: 04/09/24 12:45 Received: 04/09/24 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.604 ± 0.603 (0.956) C:NA T:86%	pCi/L	04/26/24 14:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.555 ± 0.453 (0.906) C:78% T:76%	pCi/L	04/23/24 12:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.16 ± 1.06 (1.86)	pCi/L	04/29/24 11:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-1D **Lab ID: 50370189006** Collected: 04/09/24 11:14 Received: 04/09/24 16:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0568 ± 0.579 (1.14) C:NA T:82%	pCi/L	04/26/24 14:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.44 ± 0.650 (1.13) C:76% T:73%	pCi/L	04/23/24 12:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.44 ± 1.23 (2.27)	pCi/L	04/29/24 11:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-11S **Lab ID: 50370189007** Collected: 04/09/24 11:40 Received: 04/09/24 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0552 ± 0.446 (0.920) C:NA T:88%	pCi/L	04/26/24 14:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.720 ± 0.511 (1.01) C:74% T:80%	pCi/L	04/23/24 12:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.720 ± 0.957 (1.93)	pCi/L	04/29/24 11:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-111 **Lab ID: 50370189008** Collected: 04/09/24 13:10 Received: 04/09/24 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.111 ± 0.708 (1.31) C:NA T:84%	pCi/L	04/26/24 14:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.758 ± 0.505 (0.979) C:79% T:75%	pCi/L	04/23/24 12:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.869 ± 1.21 (2.29)	pCi/L	04/29/24 11:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-11D **Lab ID: 50370189009** Collected: 04/09/24 15:45 Received: 04/09/24 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.568 ± 0.477 (0.682) C:NA T:89%	pCi/L	04/26/24 14:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.07 ± 0.560 (1.01) C:86% T:75%	pCi/L	04/23/24 15:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.64 ± 1.04 (1.69)	pCi/L	04/29/24 11:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4D MS	Lab ID: 50370189010	Collected: 04/09/24 12:00	Received: 04/09/24 16:30	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	140.23 %REC ± NA (NA) C:NA T:NA	pCi/L	04/26/24 14:18	13982-63-3	1d
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	99.91 %REC ± NA (NA) C:NA T:NA	pCi/L	04/23/24 15:31	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Sample: MW-4D MSD	Lab ID: 50370189011	Collected: 04/09/24 12:00	Received: 04/09/24 16:30	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	101.72 %REC 31.83RPD ± NA (NA) C:NA T:NA	pCi/L	04/26/24 14:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	86.54 %REC 14.35RPD ± NA (NA) C:NA T:NA	pCi/L	04/23/24 15:31	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

QC Batch:	661541	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: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009, 50370189010, 50370189011

METHOD BLANK:	3222277	Matrix:	Water
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Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009, 50370189010, 50370189011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.229 ± 0.239 (0.337) C:NA T:83%	pCi/L	04/26/24 13:51	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

QC Batch:	661542	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: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009, 50370189010, 50370189011

METHOD BLANK:	3222278	Matrix:	Water
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Associated Lab Samples: 50370189001, 50370189002, 50370189003, 50370189004, 50370189005, 50370189006, 50370189007, 50370189008, 50370189009, 50370189010, 50370189011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.591 ± 0.382 (0.702) C:82% T:74%	pCi/L	04/23/24 14:12	

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

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QUALIFIERS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d Matrix Spike recovery is high and outside of default acceptance criteria. Results reported based on acceptable RPD for the RQS set.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370189001	MW-4S	EPA 9056	784370		
50370189002	MW-4I	EPA 9056	784370		
50370189003	MW-4D	EPA 9056	784370		
50370189004	MW-1S	EPA 9056	784370		
50370189005	MW-1I	EPA 9056	784370		
50370189006	MW-1D	EPA 9056	784370		
50370189007	MW-11S	EPA 9056	784370		
50370189008	MW-11I	EPA 9056	784370		
50370189009	MW-11D	EPA 9056	784370		
50370189001	MW-4S	EPA 3010	784181	EPA 6010	785091
50370189002	MW-4I	EPA 3010	784181	EPA 6010	785091
50370189003	MW-4D	EPA 3010	784181	EPA 6010	785091
50370189004	MW-1S	EPA 3010	784181	EPA 6010	785091
50370189005	MW-1I	EPA 3010	784181	EPA 6010	785091
50370189006	MW-1D	EPA 3010	784181	EPA 6010	785091
50370189007	MW-11S	EPA 3010	784181	EPA 6010	785091
50370189008	MW-11I	EPA 3010	784181	EPA 6010	785091
50370189009	MW-11D	EPA 3010	784181	EPA 6010	785091
50370189001	MW-4S	EPA 3010	784179	EPA 6010	785021
50370189002	MW-4I	EPA 3010	784179	EPA 6010	785021
50370189003	MW-4D	EPA 3010	784179	EPA 6010	785021
50370189004	MW-1S	EPA 3010	784179	EPA 6010	785021
50370189005	MW-1I	EPA 3010	784179	EPA 6010	785021
50370189006	MW-1D	EPA 3010	784179	EPA 6010	785021
50370189007	MW-11S	EPA 3010	784179	EPA 6010	785021
50370189008	MW-11I	EPA 3010	784179	EPA 6010	785021
50370189009	MW-11D	EPA 3010	784179	EPA 6010	785021
50370189001	MW-4S	EPA 200.2	784213	EPA 6020	784390
50370189002	MW-4I	EPA 200.2	784213	EPA 6020	784390
50370189003	MW-4D	EPA 200.2	784213	EPA 6020	784390
50370189004	MW-1S	EPA 200.2	784213	EPA 6020	784390
50370189005	MW-1I	EPA 200.2	784213	EPA 6020	784390
50370189006	MW-1D	EPA 200.2	784213	EPA 6020	784390
50370189007	MW-11S	EPA 200.2	784213	EPA 6020	784390
50370189008	MW-11I	EPA 200.2	784213	EPA 6020	784390
50370189009	MW-11D	EPA 200.2	784213	EPA 6020	784390
50370189001	MW-4S	EPA 7470	784955	EPA 7470	785441
50370189002	MW-4I	EPA 7470	784955	EPA 7470	785441
50370189003	MW-4D	EPA 7470	784955	EPA 7470	785441
50370189004	MW-1S	EPA 7470	784955	EPA 7470	785441
50370189005	MW-1I	EPA 7470	784955	EPA 7470	785441
50370189006	MW-1D	EPA 7470	784955	EPA 7470	785441
50370189007	MW-11S	EPA 7470	784955	EPA 7470	785441
50370189008	MW-11I	EPA 7470	784955	EPA 7470	785441
50370189009	MW-11D	EPA 7470	784955	EPA 7470	785441
50370189001	MW-4S	EPA 903.1	661541		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370189002	MW-4I	EPA 903.1	661541		
50370189003	MW-4D	EPA 903.1	661541		
50370189004	MW-1S	EPA 903.1	661541		
50370189005	MW-1I	EPA 903.1	661541		
50370189006	MW-1D	EPA 903.1	661541		
50370189007	MW-11S	EPA 903.1	661541		
50370189008	MW-11I	EPA 903.1	661541		
50370189009	MW-11D	EPA 903.1	661541		
50370189010	MW-4D MS	EPA 903.1	661541		
50370189011	MW-4D MSD	EPA 903.1	661541		
50370189001	MW-4S	EPA 904.0	661542		
50370189002	MW-4I	EPA 904.0	661542		
50370189003	MW-4D	EPA 904.0	661542		
50370189004	MW-1S	EPA 904.0	661542		
50370189005	MW-1I	EPA 904.0	661542		
50370189006	MW-1D	EPA 904.0	661542		
50370189007	MW-11S	EPA 904.0	661542		
50370189008	MW-11I	EPA 904.0	661542		
50370189009	MW-11D	EPA 904.0	661542		
50370189010	MW-4D MS	EPA 904.0	661542		
50370189011	MW-4D MSD	EPA 904.0	661542		
50370189001	MW-4S	Total Radium Calculation	665151		
50370189002	MW-4I	Total Radium Calculation	665151		
50370189003	MW-4D	Total Radium Calculation	665151		
50370189004	MW-1S	Total Radium Calculation	665151		
50370189005	MW-1I	Total Radium Calculation	665151		
50370189006	MW-1D	Total Radium Calculation	665151		
50370189007	MW-11S	Total Radium Calculation	665151		
50370189008	MW-11I	Total Radium Calculation	665151		
50370189009	MW-11D	Total Radium Calculation	665151		
50370189001	MW-4S	SM 2320B	784579		
50370189002	MW-4I	SM 2320B	784579		
50370189003	MW-4D	SM 2320B	784579		
50370189004	MW-1S	SM 2320B	784579		
50370189005	MW-1I	SM 2320B	784579		
50370189006	MW-1D	SM 2320B	784579		
50370189007	MW-11S	SM 2320B	784579		
50370189008	MW-11I	SM 2320B	784580		
50370189009	MW-11D	SM 2320B	784580		
50370189001	MW-4S	SM 2540C	784417		
50370189002	MW-4I	SM 2540C	784417		
50370189003	MW-4D	SM 2540C	784417		
50370189004	MW-1S	SM 2540C	784417		
50370189005	MW-1I	SM 2540C	784417		
50370189006	MW-1D	SM 2540C	784417		
50370189007	MW-11S	SM 2540C	784417		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370189008	MW-11I	SM 2540C	784417		
50370189009	MW-11D	SM 2540C	784417		
50370189001	MW-4S	SM 4500-H+B	785858		
50370189002	MW-4I	SM 4500-H+B	785858		
50370189003	MW-4D	SM 4500-H+B	785858		
50370189004	MW-1S	SM 4500-H+B	785858		
50370189005	MW-1I	SM 4500-H+B	785858		
50370189006	MW-1D	SM 4500-H+B	785858		
50370189007	MW-11S	SM 4500-H+B	785858		
50370189008	MW-11I	SM 4500-H+B	785858		
50370189009	MW-11D	SM 4500-H+B	785858		
50370189001	MW-4S	EPA 353.2	784185		
50370189002	MW-4I	EPA 353.2	784185		
50370189003	MW-4D	EPA 353.2	784185		
50370189004	MW-1S	EPA 353.2	784185		
50370189005	MW-1I	EPA 353.2	784185		
50370189006	MW-1D	EPA 353.2	784185		
50370189007	MW-11S	EPA 353.2	784185		
50370189008	MW-11I	EPA 353.2	784185		
50370189009	MW-11D	EPA 353.2	784185		
50370189001	MW-4S	SM 5310C	784972		
50370189002	MW-4I	SM 5310C	784972		
50370189003	MW-4D	SM 5310C	784972		
50370189004	MW-1S	SM 5310C	784972		
50370189005	MW-1I	SM 5310C	784972		
50370189006	MW-1D	SM 5310C	784972		
50370189007	MW-11S	SM 5310C	784972		
50370189008	MW-11I	SM 5310C	784972		
50370189009	MW-11D	SM 5310C	784972		

REPORT OF LABORATORY ANALYSIS

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

4/9/24 17:58 TH

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 (A) B C D E F G H

4. Cooler Temperature(s): 0.8/0.8 1.2/1.2 1.4/1.4 1.3/1.3
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags

None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate by 353.2	<input checked="" type="checkbox"/>		Circle: <u>HNO3</u> (<3) <u>H2SO4</u> (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form.	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab Time:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?			<input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	MeOH (only)	VIALS						AMBER GLASS					PLASTIC						OTHER				Matrix															
		SBS	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc							
		DI	R	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9	Red	Yellow	Green	Black																												
1																																							
2																																							
3																																							
4																																							
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							

Container Codes

Glass	
DG9H	40mL HCl amber voa vial
DG9P	40mL TSP amber vial
DG9S	40mL H2SO4 amber vial
DG9T	40mL Na Thio amber vial
DG9U	40mL unpreserved amber vial
VG9H	40mL HCl clear vial
VG9T	40mL Na Thio. clear vial
VG9U	40mL unpreserved clear vial
I	40mL w/hexane wipe vial
WGKU	8oz unpreserved clear jar
WGUFU	4oz clear soil jar
JGFU	4oz unpreserved amber wide
CG3H	250mL clear glass HCl
CG3F	250mL clear glass HCl, Field Filter
BG1H	1L HCl clear glass
BG1S	1L H2SO4 clear glass
BG1T	1L Na Thiosulfate clear glass
BG1U	1L unpreserved glass
BG3H	250mL HCl Clear Glass
BG3U	250mL Unpres Clear Glass
AG0U	100mL unpres amber glass
AG1H	1L HCl amber glass
AG1S	1L H2SO4 amber glass
AG1T	1L Na Thiosulfate amber glass
AG1U	1liter unpres amber glass
AG2N	500mL HNO3 amber glass
AG2S	500mL H2SO4 amber glass
AG2U	500mL unpres amber glass
AG3S	250mL H2SO4 amber glass
AG3SF	250mL H2SO4 amb glass -field filtered
AG3U	250mL unpres amber glass
AG3C	250mL NaOH amber glass

Plastic	
BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc 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 Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50370192

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50370192

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370192001	MW-16S	Water	04/09/24 16:00	04/09/24 16:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370192001	MW-16S	EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370192001	MW-16S					
EPA 9056	Chloride	133	mg/L	2.5	04/19/24 19:44	
EPA 9056	Fluoride	0.32	mg/L	0.10	04/19/24 19:24	
EPA 9056	Sulfate	129	mg/L	2.5	04/19/24 19:44	
EPA 6010	Boron	247	ug/L	100	04/16/24 11:22	
EPA 6010	Calcium	92200	ug/L	1000	04/16/24 11:22	
EPA 6010	Iron	105	ug/L	100	04/16/24 11:22	
EPA 6010	Lithium	40.0	ug/L	20.0	04/16/24 11:22	
EPA 6010	Magnesium	23900	ug/L	1000	04/16/24 11:22	
EPA 6010	Manganese	476	ug/L	10.0	04/16/24 11:22	
EPA 6010	Molybdenum	56.7	ug/L	10.0	04/16/24 11:22	
EPA 6010	Potassium	7470	ug/L	1000	04/16/24 11:22	
EPA 6010	Sodium	100000	ug/L	1000	04/16/24 11:22	
EPA 6010	Molybdenum, Dissolved	55.5	ug/L	10.0	04/16/24 01:21	
EPA 6020	Barium	80.9	ug/L	1.0	04/12/24 09:45	
EPA 903.1	Radium-226	0.0683 ± 0.721 (1.37) C:NA T:86%	pCi/L		04/23/24 14:22	
EPA 904.0	Radium-228	0.392 ± 0.360 (0.730) C:75% T:86%	pCi/L		04/18/24 12:28	
Total Radium Calculation	Total Radium	0.460 ± 1.08 (2.10)	pCi/L		04/25/24 09:05	
SM 2320B	Alkalinity, Total as CaCO3	274	mg/L	10.0	04/15/24 21:47	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	274	mg/L	10.0	04/15/24 21:47	
SM 2540C	Total Dissolved Solids	599	mg/L	10.0	04/11/24 10:11	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	04/19/24 16:27	H3
EPA 353.2	Nitrogen, Nitrate	0.87	mg/L	0.10	04/10/24 01:52	
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/18/24 09:15	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

Sample: MW-16S **Lab ID: 50370192001** Collected: 04/09/24 16:00 Received: 04/09/24 16:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	133	mg/L	2.5	0.67	10		04/19/24 19:44	16887-00-6	
Fluoride	0.32	mg/L	0.10	0.017	1		04/19/24 19:24	16984-48-8	
Sulfate	129	mg/L	2.5	1.9	10		04/19/24 19:44	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	247	ug/L	100	11.4	1	04/14/24 21:10	04/16/24 11:22	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/14/24 21:10	04/16/24 11:22	7440-43-9	
Calcium	92200	ug/L	1000	56.7	1	04/14/24 21:10	04/16/24 11:22	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/14/24 21:10	04/16/24 11:22	7440-47-3	
Iron	105	ug/L	100	18.1	1	04/14/24 21:10	04/16/24 11:22	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/14/24 21:10	04/16/24 11:22	7439-92-1	
Lithium	40.0	ug/L	20.0	5.1	1	04/14/24 21:10	04/16/24 11:22	7439-93-2	
Magnesium	23900	ug/L	1000	32.8	1	04/14/24 21:10	04/16/24 11:22	7439-95-4	
Manganese	476	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:22	7439-96-5	
Molybdenum	56.7	ug/L	10.0	1.1	1	04/14/24 21:10	04/16/24 11:22	7439-98-7	
Potassium	7470	ug/L	1000	120	1	04/14/24 21:10	04/16/24 11:22	7440-09-7	
Sodium	100000	ug/L	1000	48.2	1	04/14/24 21:10	04/16/24 11:22	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	55.5	ug/L	10.0	0.78	1	04/13/24 08:05	04/16/24 01:21	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/10/24 15:34	04/12/24 09:45	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/10/24 15:34	04/12/24 09:45	7440-38-2	
Barium	80.9	ug/L	1.0	0.067	1	04/10/24 15:34	04/12/24 09:45	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/10/24 15:34	04/12/24 09:45	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/10/24 15:34	04/12/24 09:45	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/10/24 15:34	04/12/24 09:45	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/10/24 15:34	04/12/24 09:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/17/24 10:10	04/17/24 22:21	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	274	mg/L	10.0	10.0	1		04/15/24 21:47		
Alkalinity,Bicarbonate (CaCO3)	274	mg/L	10.0	10.0	1		04/15/24 21:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/15/24 21:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

Sample: MW-16S		Lab ID: 50370192001		Collected: 04/09/24 16:00	Received: 04/09/24 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	599	mg/L	10.0	10.0	1		04/11/24 10:11		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.9	Std. Units	0.10	0.10	1		04/19/24 16:27		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.87	mg/L	0.10	0.013	1		04/10/24 01:52	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/18/24 09:15		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch:	784370	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

METHOD BLANK: 3588330 Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/18/24 18:52	
Fluoride	mg/L	ND	0.10	0.017	04/18/24 18:52	
Sulfate	mg/L	ND	0.25	0.19	04/18/24 18:52	

LABORATORY CONTROL SAMPLE: 3588331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	99	80-120	
Fluoride	mg/L	1	1.1	105	80-120	
Sulfate	mg/L	5	5.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588332 3588333

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370189003 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	144	25	25	158	159	60	61	80-120	0	15	M0	
Fluoride	mg/L	0.33	1	1	1.4	1.4	108	105	80-120	2	15		
Sulfate	mg/L	101	50	50	131	131	58	59	80-120	0	15	M0	

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

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch: 784955	Analysis Method: EPA 7470
QC Batch Method: EPA 7470	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

METHOD BLANK: 3591200 Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/17/24 21:44	

LABORATORY CONTROL SAMPLE: 3591201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591202 3591203

Parameter	Units	3591202		3591203		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370189003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	ND	5	5	5.4	5.1	108	103	75-125	5	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch: 784181

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

METHOD BLANK: 3587692

Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	11.4	04/16/24 10:52	
Cadmium	ug/L	ND	2.0	0.74	04/16/24 10:52	
Calcium	ug/L	ND	1000	56.7	04/16/24 10:52	
Chromium	ug/L	ND	10.0	1.4	04/16/24 10:52	
Iron	ug/L	ND	100	18.1	04/16/24 10:52	
Lead	ug/L	ND	10.0	4.0	04/16/24 10:52	
Lithium	ug/L	ND	20.0	5.1	04/16/24 10:52	
Magnesium	ug/L	ND	1000	32.8	04/16/24 10:52	
Manganese	ug/L	ND	10.0	1.1	04/16/24 10:52	
Molybdenum	ug/L	ND	10.0	1.1	04/16/24 10:52	
Potassium	ug/L	ND	1000	120	04/16/24 10:52	
Sodium	ug/L	ND	1000	48.2	04/16/24 10:52	

LABORATORY CONTROL SAMPLE: 3587693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	923	92	80-120	
Cadmium	ug/L	1000	938	94	80-120	
Calcium	ug/L	10000	9600	96	80-120	
Chromium	ug/L	1000	963	96	80-120	
Iron	ug/L	10000	9490	95	80-120	
Lead	ug/L	1000	926	93	80-120	
Lithium	ug/L	1000	954	95	80-120	
Magnesium	ug/L	10000	9360	94	80-120	
Manganese	ug/L	1000	950	95	80-120	
Molybdenum	ug/L	1000	987	99	80-120	
Potassium	ug/L	10000	9280	93	80-120	
Sodium	ug/L	10000	9290	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587694 3587695

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50370189003 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Boron	ug/L	127	1000	1000	1070	1040	94	92	75-125	2	20	
Cadmium	ug/L	ND	1000	1000	936	905	94	90	75-125	3	20	
Calcium	ug/L	105000	10000	10000	113000	109000	82	45	75-125	3	20 P6	
Chromium	ug/L	ND	1000	1000	943	914	94	91	75-125	3	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587694 3587695											
Parameter	Units	50370189003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Iron	ug/L	2290	10000	10000	11600	11200	93	89	75-125	3	20
Lead	ug/L	ND	1000	1000	893	865	89	86	75-125	3	20
Lithium	ug/L	ND	1000	1000	943	918	94	91	75-125	3	20
Magnesium	ug/L	29400	10000	10000	38300	37000	89	76	75-125	3	20
Manganese	ug/L	214	1000	1000	1140	1100	93	89	75-125	3	20
Molybdenum	ug/L	10.2	1000	1000	997	964	99	95	75-125	3	20
Potassium	ug/L	3520	10000	10000	12700	12300	92	88	75-125	4	20
Sodium	ug/L	59500	10000	10000	68000	65600	85	61	75-125	4	20 P6

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch:	784179	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

METHOD BLANK: 3587684 Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/16/24 00:41	

LABORATORY CONTROL SAMPLE: 3587685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	979	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587686 3587687

Parameter	Units	50370083005		3587687		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Molybdenum, Dissolved	ug/L	ND	1000	1000	1010	1040	101	103	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587688 3587689

Parameter	Units	50370189003		3587689		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Molybdenum, Dissolved	ug/L	10.3	1000	1000	1020	1020	101	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch: 784213

Analysis Method: EPA 6020

QC Batch Method: EPA 200.2

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

METHOD BLANK: 3587769

Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	04/12/24 08:40	
Arsenic	ug/L	ND	1.0	0.064	04/12/24 08:40	
Barium	ug/L	ND	1.0	0.067	04/12/24 08:40	
Beryllium	ug/L	ND	0.20	0.026	04/12/24 08:40	
Cobalt	ug/L	ND	1.0	0.024	04/12/24 08:40	
Selenium	ug/L	ND	1.0	0.23	04/12/24 08:40	
Thallium	ug/L	ND	1.0	0.042	04/12/24 08:40	

LABORATORY CONTROL SAMPLE: 3587770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.0	103	80-120	
Arsenic	ug/L	40	38.9	97	80-120	
Barium	ug/L	40	38.7	97	80-120	
Beryllium	ug/L	40	43.1	108	80-120	
Cobalt	ug/L	40	40.2	101	80-120	
Selenium	ug/L	40	37.7	94	80-120	
Thallium	ug/L	40	40.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587771 3587772

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370189003 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	41.3	41.9	103	104	75-125	1	20
Arsenic	ug/L	6.1	40	40	45.0	44.3	97	96	75-125	1	20
Barium	ug/L	71.3	40	40	112	112	103	102	75-125	0	20
Beryllium	ug/L	ND	40	40	44.6	44.1	111	110	75-125	1	20
Cobalt	ug/L	ND	40	40	37.8	37.7	94	93	75-125	0	20
Selenium	ug/L	ND	40	40	37.1	37.1	92	93	75-125	0	20
Thallium	ug/L	ND	40	40	41.9	42.3	105	106	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch: 784991

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

METHOD BLANK: 3591392

Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/15/24 21:47	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/15/24 21:47	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/15/24 21:47	

LABORATORY CONTROL SAMPLE: 3591393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	90-110	

SAMPLE DUPLICATE: 3591394

Parameter	Units	50370192001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	274	279	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	274	279	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3591395

Parameter	Units	50370218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	321	325	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	321	325	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch: 784417

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

METHOD BLANK: 3588592

Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/11/24 10:06	

LABORATORY CONTROL SAMPLE: 3588593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	80-120	

SAMPLE DUPLICATE: 3588594

Parameter	Units	50370278011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	297	312	5	10	

SAMPLE DUPLICATE: 3588595

Parameter	Units	50370189003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	545	560	3	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch: 785858

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

SAMPLE DUPLICATE: 3595039

Parameter	Units	50370189003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3595040

Parameter	Units	50370280006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch:	784185	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

METHOD BLANK: 3587711 Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/10/24 01:24	

LABORATORY CONTROL SAMPLE: 3587712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3587713 3587714

Parameter	Units	50370189003		3587714		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, Nitrate	mg/L	ND	1	1	1.0	1.0	101	100	90-110	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch: 785322	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370192001

METHOD BLANK: 3592640 Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/18/24 08:54	

LABORATORY CONTROL SAMPLE: 3592641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592642 3592643

Parameter	Units	50370216004		50370216004		50370216004		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Dissolved Organic Carbon	mg/L	2.0	10	10	10.8	11.6	88	96	80-120	7	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592644 3592645

Parameter	Units	50370278009		50370278009		50370278009		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Dissolved Organic Carbon	mg/L	4.6	10	10	14.2	13.9	96	93	80-120	2	20

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

Sample: MW-16S **Lab ID: 50370192001** Collected: 04/09/24 16:00 Received: 04/09/24 16:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0683 ± 0.721 (1.37) C:NA T:86%	pCi/L	04/23/24 14:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.392 ± 0.360 (0.730) C:75% T:86%	pCi/L	04/18/24 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.460 ± 1.08 (2.10)	pCi/L	04/25/24 09:05	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch: 661537

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: 50370192001

METHOD BLANK: 3222269

Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0948 ± 0.216 (0.349) C:NA T:87%	pCi/L	04/23/24 13:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

QC Batch: 661538

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: 50370192001

METHOD BLANK: 3222270

Matrix: Water

Associated Lab Samples: 50370192001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.387 ± 0.329 (0.847) C:72% T:81%	pCi/L	04/18/24 12:30	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50370192

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370192

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370192001	MW-16S	EPA 9056	784370		
50370192001	MW-16S	EPA 3010	784181	EPA 6010	785091
50370192001	MW-16S	EPA 3010	784179	EPA 6010	785021
50370192001	MW-16S	EPA 200.2	784213	EPA 6020	784390
50370192001	MW-16S	EPA 7470	784955	EPA 7470	785441
50370192001	MW-16S	EPA 903.1	661537		
50370192001	MW-16S	EPA 904.0	661538		
50370192001	MW-16S	Total Radium Calculation	664495		
50370192001	MW-16S	SM 2320B	784991		
50370192001	MW-16S	SM 2540C	784417		
50370192001	MW-16S	SM 4500-H+B	785858		
50370192001	MW-16S	EPA 353.2	784185		
50370192001	MW-16S	SM 5310C	785322		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/9/24 17:58 TH

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 **A** B C D E F G H
4. Cooler Temperature(s): 1.1/1.1
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate by 353.2	<input checked="" type="checkbox"/>		Circle: HNO3 (<2) K2SO4 (>2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form.	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials sent
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?			<input checked="" type="checkbox"/>
			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	VIALS			AMBER GLASS					PLASTIC						OTHER			Matrix	Acid/Alkali															
	WGFB	MeOH (only) SBS DI	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U		BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	HNO3	H2SO4	NaOH	NaOH/Zn Ac	
																															<2	<2	>10	>9
1															1			2	1	2	1								3		✓	✓		
2																																		
3																																		
4																																		
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Miscellaneous	
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	Syringe Kit	LL Cr+6 sampling kit
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore Kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	GN	General Container
WGFB	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can (air sample)
JGFB	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	WT	Water
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	SL	Solid Solid
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	OL:	Oil
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370280

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370280

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370280001	MW-21S	Water	04/10/24 10:45	04/10/24 15:00
50370280002	MW-21S MS	Water	04/10/24 10:45	04/10/24 15:00
50370280003	MW-21S MSD	Water	04/10/24 10:45	04/10/24 15:00
50370280004	MW-21I	Water	04/10/24 12:40	04/10/24 15:00
50370280005	MW-21D	Water	04/10/24 13:45	04/10/24 15:00
50370280006	MW-23I	Water	04/10/24 11:17	04/10/24 15:00
50370280007	MW-23I MS	Water	04/10/24 11:17	04/10/24 15:00
50370280008	MW-23I MSD	Water	04/10/24 11:17	04/10/24 15:00
50370280009	MW-23S	Water	04/10/24 14:08	04/10/24 15:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50370280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370280001	MW-21S	EPA 9056	ADM	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	ABH	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50370280002	MW-21S MS	EPA 903.1	LL1
EPA 904.0	JJS1			1	PASI-PA
50370280003	MW-21S MSD	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50370280004	MW-21I	EPA 9056	ADM	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	ABH	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50370280005	MW-21D	EPA 9056	ADM
EPA 6010	NWB			12	PASI-I
EPA 6010	ABH			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50370280006	MW-23I	Total Radium Calculation	JAL	1	PASI-PA		
		SM 2320B	DAW	3	PASI-I		
		SM 2540C	SL	1	PASI-I		
		SM 4500-H+B	LHZ	1	PASI-I		
		EPA 353.2	DAW	1	PASI-I		
		SM 5310C	YAM	1	PASI-I		
		EPA 9056	ADM	3	PASI-I		
		EPA 6010	NWB	12	PASI-I		
		EPA 6010	ABH	1	PASI-I		
		EPA 6020	DMT	7	PASI-I		
		EPA 7470	EAE	1	PASI-I		
		EPA 903.1	LL1	1	PASI-PA		
		EPA 904.0	JJS1	1	PASI-PA		
		50370280007	MW-23I MS	Total Radium Calculation	JAL	1	PASI-PA
SM 2320B	DAW			3	PASI-I		
SM 2540C	SL			1	PASI-I		
SM 4500-H+B	LHZ			1	PASI-I		
EPA 353.2	DAW			1	PASI-I		
SM 5310C	YAM			1	PASI-I		
EPA 903.1	LL1			1	PASI-PA		
EPA 904.0	JJS1			1	PASI-PA		
50370280008	MW-23I MSD			EPA 903.1	LL1	1	PASI-PA
				EPA 904.0	JJS1	1	PASI-PA
				50370280009	MW-23S	EPA 9056	ADM
EPA 6010	NWB					12	PASI-I
EPA 6010	ABH					1	PASI-I
EPA 6020	DMT					7	PASI-I
EPA 7470	EAE	1	PASI-I				
EPA 903.1	LL1	1	PASI-PA				
EPA 904.0	JJS1	1	PASI-PA				
Total Radium Calculation	JAL	1	PASI-PA				
SM 2320B	DAW	3	PASI-I				
SM 2540C	SL	1	PASI-I				
SM 4500-H+B	LHZ	1	PASI-I				
EPA 353.2	DAW	1	PASI-I				
SM 5310C	YAM	1	PASI-I				

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370280001	MW-21S					
EPA 9056	Chloride	80.5	mg/L	2.5	04/17/24 18:10	
EPA 9056	Fluoride	0.19	mg/L	0.10	04/17/24 17:52	
EPA 9056	Sulfate	44.0	mg/L	0.25	04/17/24 17:52	
EPA 6010	Calcium	65700	ug/L	1000	04/16/24 10:23	
EPA 6010	Magnesium	19800	ug/L	1000	04/16/24 10:23	
EPA 6010	Manganese	130	ug/L	10.0	04/16/24 10:23	
EPA 6010	Potassium	2940	ug/L	1000	04/16/24 10:23	
EPA 6010	Sodium	46600	ug/L	1000	04/16/24 10:23	
EPA 6020	Barium	24.8	ug/L	1.0	04/15/24 07:08	
EPA 903.1	Radium-226	-0.150 ± 0.376 (0.779) C:NA T:90%	pCi/L		04/29/24 15:38	
EPA 904.0	Radium-228	1.06 ± 0.445 (0.714) C:81% T:91%	pCi/L		04/24/24 15:49	
Total Radium Calculation	Total Radium	1.06 ± 0.821 (1.49)	pCi/L		04/30/24 13:21	
SM 2320B	Alkalinity, Total as CaCO3	201	mg/L	10.0	04/16/24 19:24	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	201	mg/L	10.0	04/16/24 19:24	
SM 2540C	Total Dissolved Solids	382	mg/L	10.0	04/12/24 12:45	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/24/24 12:48	H3
EPA 353.2	Nitrogen, Nitrate	0.17	mg/L	0.10	04/11/24 03:53	
SM 5310C	Dissolved Organic Carbon	1.4	mg/L	1.0	04/18/24 17:12	
50370280002	MW-21S MS					
EPA 903.1	Radium-226	135.72 %REC ± NA (NA) C:NA T:NA	pCi/L		04/29/24 15:38	
EPA 904.0	Radium-228	91.25 %REC ± NA (NA) C:NA T:NA	pCi/L		04/24/24 15:49	
50370280003	MW-21S MSD					
EPA 903.1	Radium-226	103.24 %REC 27.19RPD ± NA (NA) C:NA T:NA	pCi/L		04/29/24 15:50	
EPA 904.0	Radium-228	85.59 %REC 6.40RPD ± NA (NA) C:NA T:NA	pCi/L		04/24/24 15:49	
50370280004	MW-21I					
EPA 9056	Chloride	20.6	mg/L	2.5	04/17/24 20:33	
EPA 9056	Sulfate	38.8	mg/L	0.25	04/17/24 20:15	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50370280

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370280004	MW-21I					
EPA 6010	Calcium	94600	ug/L	1000	04/16/24 10:31	
EPA 6010	Magnesium	27500	ug/L	1000	04/16/24 10:31	
EPA 6010	Manganese	118	ug/L	10.0	04/16/24 10:31	
EPA 6010	Potassium	1800	ug/L	1000	04/16/24 10:31	
EPA 6010	Sodium	9630	ug/L	1000	04/16/24 10:31	
EPA 6020	Barium	85.3	ug/L	1.0	04/15/24 07:32	
EPA 6020	Selenium	10.6	ug/L	1.0	04/15/24 07:32	
EPA 903.1	Radium-226	-0.0470 ± 0.422 (0.852)	pCi/L		04/29/24 15:50	
EPA 904.0	Radium-228	C:NA T:91% 0.149 ± 0.424 (0.950)	pCi/L		04/24/24 15:50	
		C:82% T:75%				
Total Radium Calculation	Total Radium	0.149 ± 0.846 (1.80)	pCi/L		04/30/24 13:21	
SM 2320B	Alkalinity, Total as CaCO3	277	mg/L	10.0	04/16/24 19:24	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	277	mg/L	10.0	04/16/24 19:24	
SM 2540C	Total Dissolved Solids	334	mg/L	10.0	04/15/24 11:48	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/19/24 16:29	H3
EPA 353.2	Nitrogen, Nitrate	7.5	mg/L	0.50	04/11/24 04:04	
50370280005	MW-21D					
EPA 9056	Chloride	45.9	mg/L	2.5	04/17/24 21:09	
EPA 9056	Sulfate	242	mg/L	2.5	04/17/24 21:09	
EPA 6010	Boron	313	ug/L	100	04/16/24 10:33	
EPA 6010	Calcium	140000	ug/L	1000	04/16/24 10:33	
EPA 6010	Iron	2390	ug/L	100	04/16/24 10:33	
EPA 6010	Magnesium	31800	ug/L	1000	04/16/24 10:33	
EPA 6010	Manganese	373	ug/L	10.0	04/16/24 10:33	
EPA 6010	Potassium	2960	ug/L	1000	04/16/24 10:33	
EPA 6010	Sodium	41100	ug/L	1000	04/16/24 10:33	
EPA 6020	Arsenic	3.0	ug/L	1.0	04/15/24 07:35	
EPA 6020	Barium	33.0	ug/L	1.0	04/15/24 07:35	
EPA 903.1	Radium-226	-0.0519 ± 0.548 (1.07) C:NA	pCi/L		04/29/24 15:50	
EPA 904.0	Radium-228	T:90% -0.106 ± 0.326 (0.784)	pCi/L		04/24/24 15:50	
		C:82% T:86%				
Total Radium Calculation	Total Radium	0.000 ± 0.874 (1.85)	pCi/L		04/30/24 13:21	
SM 2320B	Alkalinity, Total as CaCO3	274	mg/L	10.0	04/16/24 20:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	274	mg/L	10.0	04/16/24 20:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370280005	MW-21D					
SM 2540C	Total Dissolved Solids	660	mg/L	10.0	04/15/24 11:48	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/19/24 16:29	H3
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	04/18/24 18:17	
50370280006	MW-23I					
EPA 9056	Chloride	14.0	mg/L	0.25	04/17/24 21:27	
EPA 9056	Sulfate	38.5	mg/L	0.25	04/17/24 21:27	
EPA 6010	Calcium	82800	ug/L	1000	04/16/24 10:34	
EPA 6010	Magnesium	22700	ug/L	1000	04/16/24 10:34	
EPA 6010	Manganese	31.1	ug/L	10.0	04/16/24 10:34	
EPA 6010	Potassium	1340	ug/L	1000	04/16/24 10:34	
EPA 6010	Sodium	8400	ug/L	1000	04/16/24 10:34	
EPA 6020	Barium	27.6	ug/L	1.0	04/15/24 07:39	
EPA 6020	Selenium	11.0	ug/L	1.0	04/15/24 07:39	
EPA 903.1	Radium-226	0.202 ± 0.264 (0.436)	pCi/L		04/29/24 15:50	
EPA 904.0	Radium-228	C:NA T:85% 0.852 ± 0.458 (0.816)	pCi/L		04/24/24 15:50	
		C:80% T:80%				
Total Radium Calculation	Total Radium	1.05 ± 0.722 (1.25)	pCi/L		04/30/24 13:21	
SM 2320B	Alkalinity, Total as CaCO3	250	mg/L	10.0	04/16/24 21:18	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	250	mg/L	10.0	04/16/24 21:18	
SM 2540C	Total Dissolved Solids	260	mg/L	20.0	04/15/24 11:48	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/19/24 16:30	H3
EPA 353.2	Nitrogen, Nitrate	4.8	mg/L	0.10	04/11/24 03:20	
50370280007	MW-23I MS					
EPA 903.1	Radium-226	125.36 %REC ± NA (NA)	pCi/L		04/29/24 15:50	
EPA 904.0	Radium-228	C:NA T:NA 77.42 %REC ± NA (NA)	pCi/L		04/24/24 15:50	
		C:NA T:NA				
50370280008	MW-23I MSD					
EPA 903.1	Radium-226	111.65 %REC 11.57RPD ± NA (NA)	pCi/L		04/29/24 15:50	
EPA 904.0	Radium-228	C:NA T:NA 70.74 %REC 9.02RPD ± NA (NA)	pCi/L		04/24/24 15:47	
		C:NA T:NA				

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370280009	MW-23S					
EPA 9056	Chloride	3.1	mg/L	0.25	04/17/24 23:51	
EPA 9056	Sulfate	8.5	mg/L	0.25	04/17/24 23:51	
EPA 6010	Calcium	104000	ug/L	1000	04/16/24 10:42	
EPA 6010	Iron	231	ug/L	100	04/16/24 10:42	
EPA 6010	Magnesium	29500	ug/L	1000	04/16/24 10:42	
EPA 6010	Manganese	10.3	ug/L	10.0	04/16/24 10:42	
EPA 6010	Sodium	3170	ug/L	1000	04/16/24 10:42	
EPA 6020	Barium	40.9	ug/L	1.0	04/15/24 07:56	
EPA 6020	Selenium	1.4	ug/L	1.0	04/15/24 07:56	
EPA 903.1	Radium-226	0.301 ± 0.370 (0.603) C:NA T:91%	pCi/L		04/29/24 15:50	
EPA 904.0	Radium-228	0.783 ± 0.381 (0.628) C:80% T:89%	pCi/L		04/24/24 15:47	
Total Radium Calculation	Total Radium	1.08 ± 0.751 (1.23)	pCi/L		04/30/24 13:21	
SM 2320B	Alkalinity, Total as CaCO3	340	mg/L	10.0	04/16/24 20:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	340	mg/L	10.0	04/16/24 20:20	
SM 2540C	Total Dissolved Solids	361	mg/L	10.0	04/15/24 11:49	
SM 4500-H+B	pH at 25 Degrees C	6.7	Std. Units	0.10	04/19/24 16:31	H3
EPA 353.2	Nitrogen, Nitrate	8.8	mg/L	0.50	04/11/24 04:12	

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50370280

Sample: MW-21S **Lab ID: 50370280001** Collected: 04/10/24 10:45 Received: 04/10/24 15:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	80.5	mg/L	2.5	0.67	10		04/17/24 18:10	16887-00-6	
Fluoride	0.19	mg/L	0.10	0.017	1		04/17/24 17:52	16984-48-8	
Sulfate	44.0	mg/L	0.25	0.19	1		04/17/24 17:52	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	11.4	1	04/15/24 07:52	04/16/24 10:23	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/15/24 07:52	04/16/24 10:23	7440-43-9	
Calcium	65700	ug/L	1000	56.7	1	04/15/24 07:52	04/16/24 10:23	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/15/24 07:52	04/16/24 10:23	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/15/24 07:52	04/16/24 10:23	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/15/24 07:52	04/16/24 10:23	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/15/24 07:52	04/16/24 10:23	7439-93-2	
Magnesium	19800	ug/L	1000	32.8	1	04/15/24 07:52	04/16/24 10:23	7439-95-4	
Manganese	130	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:23	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:23	7439-98-7	
Potassium	2940	ug/L	1000	120	1	04/15/24 07:52	04/16/24 10:23	7440-09-7	
Sodium	46600	ug/L	1000	48.2	1	04/15/24 07:52	04/16/24 10:23	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	04/16/24 09:27	04/16/24 17:26	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/13/24 13:30	04/15/24 07:08	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/13/24 13:30	04/15/24 07:08	7440-38-2	
Barium	24.8	ug/L	1.0	0.067	1	04/13/24 13:30	04/15/24 07:08	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/13/24 13:30	04/15/24 07:08	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/13/24 13:30	04/15/24 07:08	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/13/24 13:30	04/15/24 07:08	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/13/24 13:30	04/15/24 07:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/16/24 10:36	04/16/24 17:14	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	201	mg/L	10.0	10.0	1		04/16/24 19:24		
Alkalinity,Bicarbonate (CaCO3)	201	mg/L	10.0	10.0	1		04/16/24 19:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/16/24 19:24		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-21S		Lab ID: 50370280001		Collected: 04/10/24 10:45	Received: 04/10/24 15:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	382	mg/L	10.0	10.0	1		04/12/24 12:45		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/24/24 12:48		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.17	mg/L	0.10	0.013	1		04/11/24 03:53	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.4	mg/L	1.0	0.25	1		04/18/24 17:12		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-211 Lab ID: 50370280004 Collected: 04/10/24 12:40 Received: 04/10/24 15:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	20.6	mg/L	2.5	0.67	10		04/17/24 20:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/17/24 20:15	16984-48-8	
Sulfate	38.8	mg/L	0.25	0.19	1		04/17/24 20:15	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	11.4	1	04/15/24 07:52	04/16/24 10:31	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/15/24 07:52	04/16/24 10:31	7440-43-9	
Calcium	94600	ug/L	1000	56.7	1	04/15/24 07:52	04/16/24 10:31	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/15/24 07:52	04/16/24 10:31	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/15/24 07:52	04/16/24 10:31	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/15/24 07:52	04/16/24 10:31	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/15/24 07:52	04/16/24 10:31	7439-93-2	
Magnesium	27500	ug/L	1000	32.8	1	04/15/24 07:52	04/16/24 10:31	7439-95-4	
Manganese	118	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:31	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:31	7439-98-7	
Potassium	1800	ug/L	1000	120	1	04/15/24 07:52	04/16/24 10:31	7440-09-7	
Sodium	9630	ug/L	1000	48.2	1	04/15/24 07:52	04/16/24 10:31	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	04/16/24 09:27	04/16/24 17:34	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/13/24 13:30	04/15/24 07:32	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/13/24 13:30	04/15/24 07:32	7440-38-2	
Barium	85.3	ug/L	1.0	0.067	1	04/13/24 13:30	04/15/24 07:32	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/13/24 13:30	04/15/24 07:32	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/13/24 13:30	04/15/24 07:32	7440-48-4	
Selenium	10.6	ug/L	1.0	0.23	1	04/13/24 13:30	04/15/24 07:32	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/13/24 13:30	04/15/24 07:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/16/24 10:36	04/16/24 17:21	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	277	mg/L	10.0	10.0	1		04/16/24 19:24		
Alkalinity,Bicarbonate (CaCO3)	277	mg/L	10.0	10.0	1		04/16/24 19:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/16/24 19:24		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-211		Lab ID: 50370280004		Collected: 04/10/24 12:40	Received: 04/10/24 15:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	334	mg/L	10.0	10.0	1		04/15/24 11:48		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		04/19/24 16:29		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	7.5	mg/L	0.50	0.065	5		04/11/24 04:04	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/18/24 17:47		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-21D		Lab ID: 50370280005		Collected: 04/10/24 13:45		Received: 04/10/24 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	45.9	mg/L	2.5	0.67	10		04/17/24 21:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/17/24 20:51	16984-48-8	
Sulfate	242	mg/L	2.5	1.9	10		04/17/24 21:09	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	313	ug/L	100	11.4	1	04/15/24 07:52	04/16/24 10:33	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/15/24 07:52	04/16/24 10:33	7440-43-9	
Calcium	140000	ug/L	1000	56.7	1	04/15/24 07:52	04/16/24 10:33	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/15/24 07:52	04/16/24 10:33	7440-47-3	
Iron	2390	ug/L	100	18.1	1	04/15/24 07:52	04/16/24 10:33	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/15/24 07:52	04/16/24 10:33	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/15/24 07:52	04/16/24 10:33	7439-93-2	
Magnesium	31800	ug/L	1000	32.8	1	04/15/24 07:52	04/16/24 10:33	7439-95-4	
Manganese	373	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:33	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:33	7439-98-7	
Potassium	2960	ug/L	1000	120	1	04/15/24 07:52	04/16/24 10:33	7440-09-7	
Sodium	41100	ug/L	1000	48.2	1	04/15/24 07:52	04/16/24 10:33	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	04/16/24 09:27	04/16/24 17:35	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	04/13/24 13:30	04/15/24 07:35	7440-36-0	
Arsenic	3.0	ug/L	1.0	0.064	1	04/13/24 13:30	04/15/24 07:35	7440-38-2	
Barium	33.0	ug/L	1.0	0.067	1	04/13/24 13:30	04/15/24 07:35	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/13/24 13:30	04/15/24 07:35	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/13/24 13:30	04/15/24 07:35	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/13/24 13:30	04/15/24 07:35	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/13/24 13:30	04/15/24 07:35	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.091	1	04/16/24 10:36	04/16/24 17:28	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	274	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Bicarbonate (CaCO3)	274	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/16/24 20:20		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-21D Lab ID: 50370280005 Collected: 04/10/24 13:45 Received: 04/10/24 15:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	660	mg/L	10.0	10.0	1		04/15/24 11:48		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		04/19/24 16:29		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/11/24 03:35	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.0	mg/L	1.0	0.25	1		04/18/24 18:17		

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**ANALYTICAL RESULTS**

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-23I		Lab ID: 50370280006		Collected: 04/10/24 11:17		Received: 04/10/24 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	14.0	mg/L	0.25	0.067	1		04/17/24 21:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/17/24 21:27	16984-48-8	
Sulfate	38.5	mg/L	0.25	0.19	1		04/17/24 21:27	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	ND	ug/L	100	11.4	1	04/15/24 07:52	04/16/24 10:34	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/15/24 07:52	04/16/24 10:34	7440-43-9	
Calcium	82800	ug/L	1000	56.7	1	04/15/24 07:52	04/16/24 10:34	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/15/24 07:52	04/16/24 10:34	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/15/24 07:52	04/16/24 10:34	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/15/24 07:52	04/16/24 10:34	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/15/24 07:52	04/16/24 10:34	7439-93-2	
Magnesium	22700	ug/L	1000	32.8	1	04/15/24 07:52	04/16/24 10:34	7439-95-4	
Manganese	31.1	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:34	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:34	7439-98-7	
Potassium	1340	ug/L	1000	120	1	04/15/24 07:52	04/16/24 10:34	7440-09-7	
Sodium	8400	ug/L	1000	48.2	1	04/15/24 07:52	04/16/24 10:34	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	04/16/24 09:27	04/16/24 17:40	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	04/13/24 13:30	04/15/24 07:39	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/13/24 13:30	04/15/24 07:39	7440-38-2	
Barium	27.6	ug/L	1.0	0.067	1	04/13/24 13:30	04/15/24 07:39	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/13/24 13:30	04/15/24 07:39	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/13/24 13:30	04/15/24 07:39	7440-48-4	
Selenium	11.0	ug/L	1.0	0.23	1	04/13/24 13:30	04/15/24 07:39	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/13/24 13:30	04/15/24 07:39	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.091	1	04/16/24 10:36	04/16/24 17:31	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	250	mg/L	10.0	10.0	1		04/16/24 21:18		
Alkalinity,Bicarbonate (CaCO3)	250	mg/L	10.0	10.0	1		04/16/24 21:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/16/24 21:18		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-23I		Lab ID: 50370280006		Collected: 04/10/24 11:17	Received: 04/10/24 15:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	260	mg/L	20.0	20.0	1		04/15/24 11:48		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/19/24 16:30		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	4.8	mg/L	0.10	0.013	1		04/11/24 03:20	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/24/24 14:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-23S		Lab ID: 50370280009		Collected: 04/10/24 14:08		Received: 04/10/24 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	3.1	mg/L	0.25	0.067	1		04/17/24 23:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/17/24 23:51	16984-48-8	
Sulfate	8.5	mg/L	0.25	0.19	1		04/17/24 23:51	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	ND	ug/L	100	11.4	1	04/15/24 07:52	04/16/24 10:42	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/15/24 07:52	04/16/24 10:42	7440-43-9	
Calcium	104000	ug/L	1000	56.7	1	04/15/24 07:52	04/16/24 10:42	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/15/24 07:52	04/16/24 10:42	7440-47-3	
Iron	231	ug/L	100	18.1	1	04/15/24 07:52	04/16/24 10:42	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/15/24 07:52	04/16/24 10:42	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/15/24 07:52	04/16/24 10:42	7439-93-2	
Magnesium	29500	ug/L	1000	32.8	1	04/15/24 07:52	04/16/24 10:42	7439-95-4	
Manganese	10.3	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:42	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:42	7439-98-7	
Potassium	ND	ug/L	1000	120	1	04/15/24 07:52	04/16/24 10:42	7440-09-7	
Sodium	3170	ug/L	1000	48.2	1	04/15/24 07:52	04/16/24 10:42	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	04/16/24 09:27	04/16/24 17:44	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	04/13/24 13:30	04/15/24 07:56	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/13/24 13:30	04/15/24 07:56	7440-38-2	
Barium	40.9	ug/L	1.0	0.067	1	04/13/24 13:30	04/15/24 07:56	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/13/24 13:30	04/15/24 07:56	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/13/24 13:30	04/15/24 07:56	7440-48-4	
Selenium	1.4	ug/L	1.0	0.23	1	04/13/24 13:30	04/15/24 07:56	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/13/24 13:30	04/15/24 07:56	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.091	1	04/16/24 10:36	04/16/24 17:38	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	340	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Bicarbonate (CaCO3)	340	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/16/24 20:20		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-23S Lab ID: 50370280009 Collected: 04/10/24 14:08 Received: 04/10/24 15:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	361	mg/L	10.0	10.0	1		04/15/24 11:49		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.7	Std. Units	0.10	0.10	1		04/19/24 16:31		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	8.8	mg/L	0.50	0.065	5		04/11/24 04:12	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	4.0	1.0	4		04/18/24 18:28		D3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch:	784928	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

METHOD BLANK: 3591126 Matrix: Water
 Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/17/24 09:38	
Fluoride	mg/L	ND	0.10	0.017	04/17/24 09:38	
Sulfate	mg/L	ND	0.25	0.19	04/17/24 09:38	

LABORATORY CONTROL SAMPLE: 3591127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	1.0	102	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591128 3591129

Parameter	Units	50370280001		50370280006		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Spike Conc.	MSD Spike Conc.								
Chloride	mg/L	80.5	25	25	25	101	101	83	81	80-120	0	15	
Fluoride	mg/L	0.19	1	1	1	1.2	1.2	104	104	80-120	0	15	
Sulfate	mg/L	44.0	5	5	5	49.1	49.1	103	102	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591130 3591131

Parameter	Units	50370280006		50370280001		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Spike Conc.	MSD Spike Conc.								
Chloride	mg/L	14.0	2.5	2.5	2.5	16.5	16.5	97	98	80-120	0	15	
Fluoride	mg/L	ND	1	1	1	1.1	1.1	102	101	80-120	0	15	
Sulfate	mg/L	38.5	5	5	5	43.3	43.4	96	97	80-120	0	15	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50370280

QC Batch: 785006 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

METHOD BLANK: 3591445 Matrix: Water
 Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/16/24 17:06	

LABORATORY CONTROL SAMPLE: 3591446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591447 3591448

Parameter	Units	50370280001		50370280006		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Mercury	ug/L	ND	5	5	5.3	5.1	107	102	75-125	4	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591451 3591452

Parameter	Units	50370280006		50370281002		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Mercury	ug/L	ND	5	5	5.0	4.7	100	94	75-125	6	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591453 3591454

Parameter	Units	50370281002		50370281002		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Mercury	ug/L	ND	5	5	5.2	5.0	105	100	75-125	5	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch:	784602	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

METHOD BLANK: 3589546 Matrix: Water

Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	11.4	04/16/24 10:10	
Cadmium	ug/L	ND	2.0	0.74	04/16/24 10:10	
Calcium	ug/L	ND	1000	56.7	04/16/24 10:10	
Chromium	ug/L	ND	10.0	1.4	04/16/24 10:10	
Iron	ug/L	ND	100	18.1	04/16/24 10:10	
Lead	ug/L	ND	10.0	4.0	04/16/24 10:10	
Lithium	ug/L	ND	20.0	5.1	04/16/24 10:10	
Magnesium	ug/L	ND	1000	32.8	04/16/24 10:10	
Manganese	ug/L	ND	10.0	1.1	04/16/24 10:10	
Molybdenum	ug/L	ND	10.0	1.1	04/16/24 10:10	
Potassium	ug/L	ND	1000	120	04/16/24 10:10	
Sodium	ug/L	ND	1000	48.2	04/16/24 10:10	

LABORATORY CONTROL SAMPLE: 3589547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	970	97	80-120	
Cadmium	ug/L	1000	992	99	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lead	ug/L	1000	978	98	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	9860	99	80-120	
Manganese	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1040	104	80-120	
Potassium	ug/L	10000	9890	99	80-120	
Sodium	ug/L	10000	9820	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3589548 3589549

Parameter	Units	50370280001		3589549		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	ug/L	ND	1000	1020	1020	98	98	75-125	0	20	
Cadmium	ug/L	ND	1000	978	979	98	98	75-125	0	20	
Calcium	ug/L	65700	10000	73400	73700	77	80	75-125	0	20	
Chromium	ug/L	ND	1000	990	989	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3589548 3589549											
Parameter	Units	50370280001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Iron	ug/L	ND	10000	10000	9810	9790	98	98	75-125	0	20
Lead	ug/L	ND	1000	1000	943	939	94	94	75-125	0	20
Lithium	ug/L	ND	1000	1000	983	985	98	98	75-125	0	20
Magnesium	ug/L	19800	10000	10000	28900	29000	91	91	75-125	0	20
Manganese	ug/L	130	1000	1000	1110	1110	98	98	75-125	0	20
Molybdenum	ug/L	ND	1000	1000	1040	1040	103	103	75-125	0	20
Potassium	ug/L	2940	10000	10000	12500	12500	95	95	75-125	0	20
Sodium	ug/L	46600	10000	10000	54200	54400	76	78	75-125	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3589550 3589551											
Parameter	Units	50370280006 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Boron	ug/L	ND	1000	1000	1010	1010	97	97	75-125	0	20
Cadmium	ug/L	ND	1000	1000	976	973	98	97	75-125	0	20
Calcium	ug/L	82800	10000	10000	91500	91400	87	86	75-125	0	20
Chromium	ug/L	ND	1000	1000	991	984	99	98	75-125	1	20
Iron	ug/L	ND	10000	10000	9790	9790	98	98	75-125	0	20
Lead	ug/L	ND	1000	1000	940	938	94	94	75-125	0	20
Lithium	ug/L	ND	1000	1000	993	989	99	99	75-125	0	20
Magnesium	ug/L	22700	10000	10000	32100	32000	94	93	75-125	0	20
Manganese	ug/L	31.1	1000	1000	1010	1010	98	98	75-125	0	20
Molybdenum	ug/L	ND	1000	1000	1030	1030	103	102	75-125	0	20
Potassium	ug/L	1340	10000	10000	10900	10900	96	95	75-125	0	20
Sodium	ug/L	8400	10000	10000	17800	17700	94	93	75-125	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3589552 3589553											
Parameter	Units	50370281002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Boron	ug/L	ND	1000	1000	1030	1040	97	98	75-125	1	20
Cadmium	ug/L	ND	1000	1000	971	980	97	98	75-125	1	20
Calcium	ug/L	89900	10000	10000	98200	99300	83	94	75-125	1	20
Chromium	ug/L	ND	1000	1000	982	988	98	99	75-125	1	20
Iron	ug/L	ND	10000	10000	9720	9790	97	97	75-125	1	20
Lead	ug/L	ND	1000	1000	927	937	92	93	75-125	1	20
Lithium	ug/L	ND	1000	1000	977	986	98	99	75-125	1	20
Magnesium	ug/L	22700	10000	10000	31800	32200	91	95	75-125	1	20
Manganese	ug/L	ND	1000	1000	972	981	96	97	75-125	1	20
Molybdenum	ug/L	ND	1000	1000	1030	1040	103	103	75-125	1	20
Potassium	ug/L	2950	10000	10000	12400	12500	95	96	75-125	1	20
Sodium	ug/L	54200	10000	10000	62600	63300	84	91	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50370280

QC Batch: 784831 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

METHOD BLANK: 3590892 Matrix: Water
 Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	04/16/24 17:23	

LABORATORY CONTROL SAMPLE: 3590893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	996	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3590894 3590895

Parameter	Units	50370280001		50370280006		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Molybdenum, Dissolved	ug/L	ND	1000	1000	999	1020	100	101	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3590896 3590897

Parameter	Units	50370280006		50370280006		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Molybdenum, Dissolved	ug/L	ND	1000	1000	1000	993	100	99	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3590898 3590899

Parameter	Units	50370284006		50370284006		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Molybdenum, Dissolved	ug/L	<10.0	1000	1000	981	1010	98	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50370280

QC Batch: 784737 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

METHOD BLANK: 3590177 Matrix: Water
 Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	04/15/24 06:43	
Arsenic	ug/L	ND	1.0	0.064	04/15/24 06:43	
Barium	ug/L	ND	1.0	0.067	04/15/24 06:43	
Beryllium	ug/L	ND	0.20	0.026	04/15/24 06:43	
Cobalt	ug/L	ND	1.0	0.024	04/15/24 06:43	
Selenium	ug/L	ND	1.0	0.23	04/15/24 06:43	
Thallium	ug/L	ND	1.0	0.042	04/15/24 06:43	

LABORATORY CONTROL SAMPLE: 3590178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.5	104	80-120	
Arsenic	ug/L	40	40.0	100	80-120	
Barium	ug/L	40	39.1	98	80-120	
Beryllium	ug/L	40	43.0	108	80-120	
Cobalt	ug/L	40	40.6	102	80-120	
Selenium	ug/L	40	39.5	99	80-120	
Thallium	ug/L	40	41.5	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3590179 3590180

Parameter	Units	50370280001		50370280006		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result								
Antimony	ug/L	ND	40	40	42.0	42.1	105	105	75-125	0	20		
Arsenic	ug/L	ND	40	40	39.6	39.8	99	99	75-125	1	20		
Barium	ug/L	24.8	40	40	63.4	64.0	96	98	75-125	1	20		
Beryllium	ug/L	ND	40	40	41.4	41.2	104	103	75-125	1	20		
Cobalt	ug/L	ND	40	40	38.4	38.6	95	96	75-125	1	20		
Selenium	ug/L	ND	40	40	37.8	38.6	94	96	75-125	2	20		
Thallium	ug/L	ND	40	40	41.8	41.6	105	104	75-125	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3590181 3590182

Parameter	Units	50370280006		50370280001		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result								
Antimony	ug/L	ND	40	40	42.2	42.2	105	105	75-125	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3590181 3590182											
Parameter	Units	50370280006 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Arsenic	ug/L	ND	40	40	40.0	40.0	100	100	75-125	0	20
Barium	ug/L	27.6	40	40	66.2	66.5	97	97	75-125	0	20
Beryllium	ug/L	ND	40	40	40.5	41.2	101	103	75-125	2	20
Cobalt	ug/L	ND	40	40	38.0	38.4	94	95	75-125	1	20
Selenium	ug/L	11.0	40	40	48.3	48.8	93	94	75-125	1	20
Thallium	ug/L	ND	40	40	42.0	42.3	105	106	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch:	785215	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280001, 50370280004

METHOD BLANK: 3592140 Matrix: Water

Associated Lab Samples: 50370280001, 50370280004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/16/24 19:24	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/16/24 19:24	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/16/24 19:24	

LABORATORY CONTROL SAMPLE: 3592141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	54.3	109	90-110	

SAMPLE DUPLICATE: 3592142

Parameter	Units	50370278009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	209	215	2	20	

SAMPLE DUPLICATE: 3592143

Parameter	Units	50370280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	201	206	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	201	190	6	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	15.6		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch: 785216

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280005, 50370280009

METHOD BLANK: 3592145

Matrix: Water

Associated Lab Samples: 50370280005, 50370280009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/16/24 20:20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/16/24 20:20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/16/24 20:20	

LABORATORY CONTROL SAMPLE: 3592146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	90-110	

SAMPLE DUPLICATE: 3592147

Parameter	Units	50370281002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	356	361	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	356	361	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3592148

Parameter	Units	50370291003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	388	354	9	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	388	354	9	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch: 785217

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280006

METHOD BLANK: 3592152

Matrix: Water

Associated Lab Samples: 50370280006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/16/24 21:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/16/24 21:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/16/24 21:18	

LABORATORY CONTROL SAMPLE: 3592153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	90-110	

SAMPLE DUPLICATE: 3592154

Parameter	Units	50370291010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	206	206	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	206	206	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3592155

Parameter	Units	50370280006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	256	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	250	244	3	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	12.4		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch: 784650

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280001

METHOD BLANK: 3589734

Matrix: Water

Associated Lab Samples: 50370280001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/12/24 12:36	

LABORATORY CONTROL SAMPLE: 3589735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	80-120	

SAMPLE DUPLICATE: 3589736

Parameter	Units	50370291011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	296	305	3	10	

SAMPLE DUPLICATE: 3589737

Parameter	Units	50370280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	382	374	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch:	784847	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280004, 50370280005, 50370280006, 50370280009

METHOD BLANK: 3590930 Matrix: Water
 Associated Lab Samples: 50370280004, 50370280005, 50370280006, 50370280009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/15/24 11:45	

LABORATORY CONTROL SAMPLE: 3590931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	80-120	

SAMPLE DUPLICATE: 3590932

Parameter	Units	50370280006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	260	264	2	10	

SAMPLE DUPLICATE: 3590933

Parameter	Units	50370281002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	445	424	5	10	

SAMPLE DUPLICATE: 3590934

Parameter	Units	50370284006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	453000 ug/L	473	4	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch: 785858

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280004, 50370280005, 50370280006, 50370280009

SAMPLE DUPLICATE: 3595039

Parameter	Units	50370189003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3595040

Parameter	Units	50370280006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch: 786418

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280001

SAMPLE DUPLICATE: 3597549

Parameter	Units	50370318001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	1	2	H3

SAMPLE DUPLICATE: 3597620

Parameter	Units	50370280001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	2	H3

SAMPLE DUPLICATE: 3597621

Parameter	Units	50370281002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370280

QC Batch: 784397 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

METHOD BLANK: 3588546 Matrix: Water
Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280006, 50370280009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/11/24 02:43	

LABORATORY CONTROL SAMPLE: 3588547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.93	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588548 3588549

Parameter	Units	50369839005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.20	1	1	1.2	1.2	97	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588550 3588551

Parameter	Units	50370281002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	10.9	10	10	20.7	20.6	98	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588552 3588553

Parameter	Units	50370280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.17	1	1	1.1	1.1	97	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588554 3588555

Parameter	Units	50370280006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	4.8	5	5	9.9	9.9	101	101	90-110	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch: 785323 Analysis Method: SM 5310C
 QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280009

METHOD BLANK: 3592646 Matrix: Water
 Associated Lab Samples: 50370280001, 50370280004, 50370280005, 50370280009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/18/24 14:55	

LABORATORY CONTROL SAMPLE: 3592647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592648 3592649

Parameter	Units	50370280001		3592649		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Dissolved Organic Carbon	mg/L	1.4	10	10.5	10.3	91	90	80-120	1	20	

MATRIX SPIKE SAMPLE: 3592650

Parameter	Units	10689345001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5.2	10	14.9	97	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370280

QC Batch: 786243 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370280006

METHOD BLANK: 3596772 Matrix: Water
Associated Lab Samples: 50370280006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/24/24 14:02	

LABORATORY CONTROL SAMPLE: 3596773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596774 3596775

Parameter	Units	50370280006		3596775		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Dissolved Organic Carbon	mg/L	ND	10	10	9.9	9.7	93	90	80-120	3	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596776 3596777

Parameter	Units	50370281002		3596777		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Dissolved Organic Carbon	mg/L	ND	10	10	10.5	9.9	95	89	80-120	6	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596778 3596779

Parameter	Units	50370647006		3596779		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Dissolved Organic Carbon	mg/L	1.3	10	10	10.3	10.3	90	91	80-120	0	20

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-21S **Lab ID: 50370280001** Collected: 04/10/24 10:45 Received: 04/10/24 15:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.150 ± 0.376 (0.779) C:NA T:90%	pCi/L	04/29/24 15:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.06 ± 0.445 (0.714) C:81% T:91%	pCi/L	04/24/24 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.06 ± 0.821 (1.49)	pCi/L	04/30/24 13:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-21S MS Lab ID: 50370280002 Collected: 04/10/24 10:45 Received: 04/10/24 15:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	135.72 %REC ± NA (NA) C:NA T:NA	pCi/L	04/29/24 15:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	91.25 %REC ± NA (NA) C:NA T:NA	pCi/L	04/24/24 15:49	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-21S MSD	Lab ID: 50370280003	Collected: 04/10/24 10:45	Received: 04/10/24 15:00	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	103.24 %REC 27.19RPD ± NA (NA) C:NA T:NA	pCi/L	04/29/24 15:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	85.59 %REC 6.40RPD ± NA (NA) C:NA T:NA	pCi/L	04/24/24 15:49	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-211 **Lab ID: 50370280004** Collected: 04/10/24 12:40 Received: 04/10/24 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0470 ± 0.422 (0.852) C:NA T:91%	pCi/L	04/29/24 15:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.149 ± 0.424 (0.950) C:82% T:75%	pCi/L	04/24/24 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.149 ± 0.846 (1.80)	pCi/L	04/30/24 13:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-21D **Lab ID: 50370280005** Collected: 04/10/24 13:45 Received: 04/10/24 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0519 ± 0.548 (1.07) C:NA T:90%	pCi/L	04/29/24 15:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.106 ± 0.326 (0.784) C:82% T:86%	pCi/L	04/24/24 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.874 (1.85)	pCi/L	04/30/24 13:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-231 **Lab ID: 50370280006** Collected: 04/10/24 11:17 Received: 04/10/24 15:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.202 ± 0.264 (0.436) C:NA T:85%	pCi/L	04/29/24 15:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.852 ± 0.458 (0.816) C:80% T:80%	pCi/L	04/24/24 15:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.05 ± 0.722 (1.25)	pCi/L	04/30/24 13:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-231 MS Lab ID: 50370280007 Collected: 04/10/24 11:17 Received: 04/10/24 15:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	125.36 %REC ± NA (NA) C:NA T:NA	pCi/L	04/29/24 15:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	77.42 %REC ± NA (NA) C:NA T:NA	pCi/L	04/24/24 15:50	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-23I MSD	Lab ID: 50370280008	Collected: 04/10/24 11:17	Received: 04/10/24 15:00	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	111.65 %REC 11.57RPD ± NA (NA) C:NA T:NA	pCi/L	04/29/24 15:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	70.74 %REC 9.02RPD ± NA (NA) C:NA T:NA	pCi/L	04/24/24 15:47	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Sample: MW-23S **Lab ID: 50370280009** Collected: 04/10/24 14:08 Received: 04/10/24 15:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.301 ± 0.370 (0.603) C:NA T:91%	pCi/L	04/29/24 15:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.783 ± 0.381 (0.628) C:80% T:89%	pCi/L	04/24/24 15:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.08 ± 0.751 (1.23)	pCi/L	04/30/24 13:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch:	661924	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:	50370280001, 50370280002, 50370280003, 50370280004, 50370280005, 50370280006, 50370280007, 50370280008, 50370280009		

METHOD BLANK:	3223783	Matrix:	Water
Associated Lab Samples:	50370280001, 50370280002, 50370280003, 50370280004, 50370280005, 50370280006, 50370280007, 50370280008, 50370280009		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.517 ± 0.385 (0.749) C:77% T:87%	pCi/L	04/24/24 15:50	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

QC Batch:	661922	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: 50370280001, 50370280002, 50370280003, 50370280004, 50370280005, 50370280006, 50370280007, 50370280008, 50370280009

METHOD BLANK: 3223778 Matrix: Water

Associated Lab Samples: 50370280001, 50370280002, 50370280003, 50370280004, 50370280005, 50370280006, 50370280007, 50370280008, 50370280009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0781 ± 0.242 (0.469) C:NA T:93%	pCi/L	04/29/24 15:38	

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

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QUALIFIERS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

H3 Sample was received or analysis requested beyond the recognized method holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370280001	MW-21S	EPA 9056	784928		
50370280004	MW-21I	EPA 9056	784928		
50370280005	MW-21D	EPA 9056	784928		
50370280006	MW-23I	EPA 9056	784928		
50370280009	MW-23S	EPA 9056	784928		
50370280001	MW-21S	EPA 3010	784602	EPA 6010	785088
50370280004	MW-21I	EPA 3010	784602	EPA 6010	785088
50370280005	MW-21D	EPA 3010	784602	EPA 6010	785088
50370280006	MW-23I	EPA 3010	784602	EPA 6010	785088
50370280009	MW-23S	EPA 3010	784602	EPA 6010	785088
50370280001	MW-21S	EPA 3010	784831	EPA 6010	785220
50370280004	MW-21I	EPA 3010	784831	EPA 6010	785220
50370280005	MW-21D	EPA 3010	784831	EPA 6010	785220
50370280006	MW-23I	EPA 3010	784831	EPA 6010	785220
50370280009	MW-23S	EPA 3010	784831	EPA 6010	785220
50370280001	MW-21S	EPA 200.2	784737	EPA 6020	784826
50370280004	MW-21I	EPA 200.2	784737	EPA 6020	784826
50370280005	MW-21D	EPA 200.2	784737	EPA 6020	784826
50370280006	MW-23I	EPA 200.2	784737	EPA 6020	784826
50370280009	MW-23S	EPA 200.2	784737	EPA 6020	784826
50370280001	MW-21S	EPA 7470	785006	EPA 7470	785195
50370280004	MW-21I	EPA 7470	785006	EPA 7470	785195
50370280005	MW-21D	EPA 7470	785006	EPA 7470	785195
50370280006	MW-23I	EPA 7470	785006	EPA 7470	785195
50370280009	MW-23S	EPA 7470	785006	EPA 7470	785195
50370280001	MW-21S	EPA 903.1	661922		
50370280002	MW-21S MS	EPA 903.1	661922		
50370280003	MW-21S MSD	EPA 903.1	661922		
50370280004	MW-21I	EPA 903.1	661922		
50370280005	MW-21D	EPA 903.1	661922		
50370280006	MW-23I	EPA 903.1	661922		
50370280007	MW-23I MS	EPA 903.1	661922		
50370280008	MW-23I MSD	EPA 903.1	661922		
50370280009	MW-23S	EPA 903.1	661922		
50370280001	MW-21S	EPA 904.0	661924		
50370280002	MW-21S MS	EPA 904.0	661924		
50370280003	MW-21S MSD	EPA 904.0	661924		
50370280004	MW-21I	EPA 904.0	661924		
50370280005	MW-21D	EPA 904.0	661924		
50370280006	MW-23I	EPA 904.0	661924		
50370280007	MW-23I MS	EPA 904.0	661924		
50370280008	MW-23I MSD	EPA 904.0	661924		
50370280009	MW-23S	EPA 904.0	661924		
50370280001	MW-21S	Total Radium Calculation	665455		
50370280004	MW-21I	Total Radium Calculation	665455		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370280005	MW-21D	Total Radium Calculation	665455		
50370280006	MW-23I	Total Radium Calculation	665455		
50370280009	MW-23S	Total Radium Calculation	665455		
50370280001	MW-21S	SM 2320B	785215		
50370280004	MW-21I	SM 2320B	785215		
50370280005	MW-21D	SM 2320B	785216		
50370280006	MW-23I	SM 2320B	785217		
50370280009	MW-23S	SM 2320B	785216		
50370280001	MW-21S	SM 2540C	784650		
50370280004	MW-21I	SM 2540C	784847		
50370280005	MW-21D	SM 2540C	784847		
50370280006	MW-23I	SM 2540C	784847		
50370280009	MW-23S	SM 2540C	784847		
50370280001	MW-21S	SM 4500-H+B	786418		
50370280004	MW-21I	SM 4500-H+B	785858		
50370280005	MW-21D	SM 4500-H+B	785858		
50370280006	MW-23I	SM 4500-H+B	785858		
50370280009	MW-23S	SM 4500-H+B	785858		
50370280001	MW-21S	EPA 353.2	784397		
50370280004	MW-21I	EPA 353.2	784397		
50370280005	MW-21D	EPA 353.2	784397		
50370280006	MW-23I	EPA 353.2	784397		
50370280009	MW-23S	EPA 353.2	784397		
50370280001	MW-21S	SM 5310C	785323		
50370280004	MW-21I	SM 5310C	785323		
50370280005	MW-21D	SM 5310C	785323		
50370280006	MW-23I	SM 5310C	786243		
50370280009	MW-23S	SM 5310C	785323		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com>

WO# : 50370280



50370280

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Atlas Indianapolis	Report To:	Mark Breting	Attention:	Accounts Payable - Paula Sedam
Address:	7988 Centerpoint Drive Suite 100, Indianapolis, IN 46256	Copy To:		Company Name:	Atlas Indianapolis
Email:	mark.breting@oneatlas.com	Purchase Order #:		Address:	
Phone:	317-313-8306	Project Name:	Eagle Valley April 2024	Pace Quote:	
Requested Due Date:		Project #:	PIR4	Pace Project Manager:	will.statz@pacelabs.com
				Pace Profile #:	10498/56
					Regulatory Agency
					State / Location
					IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WIP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WIP AR OT TS	COLLECTED		START DATE	END DATE	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)					
				MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)					DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	Y/N	Tot. Metals 6010/6020/7470	Diss metals by 6010	TDS by 2540C
1	MW-21S	WT	G	4/10/24	1045			3	1	4															001 002 003	
2	MW-21 I				1240																					004
3	MW-21 D				1345																					005
4	MSMSD 4				1045																					
5	MW-23 I				1117																					006 007 008
6	MW-23 S				1408																					009
7	MSMSD 5				1117																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NO2/NO3 has a SH time of 48 hours	Mohammed Bazlamit	4/10/24	1500	T.H	4/10/24	1500	05 Y N Y
6020 - Be, Co, As, Se, Sb, Ba, Tl (7)							
6010 - B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li (12), 7470							
6010 Dis - Mo							

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Mohammed Bazlamit
SIGNATURE of SAMPLER:	
DATE Signed:	4/10/24

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/10/24 17:01 TH

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**

4. Cooler Temperature(s): 0.5/0.5 1.1/1.1 0.9/0.9
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate by 353.2	<input checked="" type="checkbox"/>		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>		Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?			
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			

COMMENTS:



June 28, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50370281

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370281001	MW-7S	Water	04/10/24 13:00	04/10/24 15:00
50370281002	MW-13S	Water	04/10/24 10:15	04/10/24 15:00
50370281003	MW-13S MS	Water	04/10/24 10:15	04/10/24 15:00
50370281004	MW-13I	Water	04/10/24 12:30	04/10/24 15:00
50370281005	MW-13D	Water	04/10/24 14:08	04/10/24 15:00
50370281006	MW-13S MSD	Water	04/10/24 10:15	04/10/24 15:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370281

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370281001	MW-7S	EPA 9056	ADM	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50370281002	MW-13S	EPA 9056	ADM
EPA 6010	NWB			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	CLM			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50370281003	MW-13S MS			EPA 903.1	CLM
		EPA 904.0	VAL	1	PASI-PA
		50370281004	MW-13I	EPA 9056	ADM
EPA 6010	NWB			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	CLM			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370281005	MW-13D	SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50370281006	MW-13S MSD	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370281001	MW-7S					
EPA 9056	Chloride	332	mg/L	25.0	04/16/24 22:38	
EPA 9056	Sulfate	1190	mg/L	25.0	04/16/24 22:38	
EPA 6010	Boron	4290	ug/L	100	04/16/24 10:43	
EPA 6010	Calcium	423000	ug/L	5000	04/16/24 13:07	
EPA 6010	Iron	143	ug/L	100	04/16/24 10:43	
EPA 6010	Lithium	87.6	ug/L	20.0	04/16/24 10:43	
EPA 6010	Magnesium	90400	ug/L	1000	04/16/24 10:43	
EPA 6010	Manganese	475	ug/L	10.0	04/16/24 10:43	
EPA 6010	Molybdenum	23.4	ug/L	10.0	04/16/24 10:43	
EPA 6010	Potassium	13700	ug/L	1000	04/16/24 10:43	
EPA 6010	Sodium	253000	ug/L	5000	04/16/24 13:07	
EPA 6010	Molybdenum, Dissolved	21.0	ug/L	10.0	04/18/24 00:30	
EPA 6020	Antimony	2.4	ug/L	1.0	04/15/24 10:51	
EPA 6020	Barium	54.1	ug/L	1.0	04/15/24 10:51	
EPA 6020	Cobalt	1.3	ug/L	1.0	04/15/24 10:51	
EPA 6020	Selenium	20.8	ug/L	1.0	04/15/24 10:51	
EPA 903.1	Radium-226	0.569 ± 0.698	pCi/L		04/23/24 14:42	
		(1.15) C:NA				
		T:94%				
EPA 904.0	Radium-228	0.220 ± 0.390	pCi/L		04/22/24 14:48	
		(0.852)				
		C:70%				
		T:84%				
Total Radium Calculation	Total Radium	0.789 ± 1.09 (2.00)	pCi/L		04/26/24 11:38	
SM 2320B	Alkalinity, Total as CaCO3	320	mg/L	10.0	04/16/24 20:20	
SM 2320B	Alkalinity, Bicarbonate (CaCO3)	320	mg/L	10.0	04/16/24 20:20	
SM 2540C	Total Dissolved Solids	2590	mg/L	40.0	04/15/24 11:50	
SM 4500-H+B	pH at 25 Degrees C	6.7	Std. Units	0.10	04/19/24 16:32	H3
EPA 353.2	Nitrogen, Nitrate	4.5	mg/L	0.10	04/11/24 04:06	
50370281002	MW-13S					
EPA 9056	Chloride	25.8	mg/L	2.5	04/16/24 23:50	
EPA 9056	Sulfate	12.5	mg/L	0.25	04/16/24 23:32	
EPA 6010	Calcium	89900	ug/L	1000	04/16/24 10:45	
EPA 6010	Magnesium	22700	ug/L	1000	04/16/24 10:45	
EPA 6010	Potassium	2950	ug/L	1000	04/16/24 10:45	
EPA 6010	Sodium	54200	ug/L	1000	04/16/24 10:45	
EPA 6020	Barium	44.5	ug/L	1.0	04/15/24 10:54	
EPA 903.1	Radium-226	0.000 ± 0.445	pCi/L		04/23/24 14:42	
		(0.925)				
		C:NA T:87%				
EPA 904.0	Radium-228	0.391 ± 0.368	pCi/L		04/22/24 14:47	
		(0.742)				
		C:74%				
		T:82%				

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370281002	MW-13S					
Total Radium Calculation	Total Radium	0.391 ± 0.813 (1.67)	pCi/L		04/26/24 11:38	
SM 2320B	Alkalinity, Total as CaCO3	356	mg/L	10.0	04/16/24 20:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	356	mg/L	10.0	04/16/24 20:20	
SM 2540C	Total Dissolved Solids	445	mg/L	10.0	04/15/24 11:50	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/24/24 12:28	H3
EPA 353.2	Nitrogen, Nitrate	10.9	mg/L	1.0	04/11/24 03:44	
50370281003	MW-13S MS					
EPA 903.1	Radium-226	120.40 %REC 5.37RPD ± NA (NA) C:NA T:NA	pCi/L		04/23/24 14:42	
EPA 904.0	Radium-228	61.49 %REC ± NA (NA) C:NA T:NA	pCi/L		04/22/24 14:47	
50370281004	MW-13I					
EPA 9056	Chloride	33.4	mg/L	2.5	04/17/24 03:07	
EPA 9056	Sulfate	21.8	mg/L	0.25	04/17/24 02:49	
EPA 6010	Calcium	76600	ug/L	1000	04/16/24 10:49	
EPA 6010	Magnesium	20700	ug/L	1000	04/16/24 10:49	
EPA 6010	Potassium	2160	ug/L	1000	04/16/24 10:49	
EPA 6010	Sodium	29100	ug/L	1000	04/16/24 10:49	
EPA 6020	Barium	34.4	ug/L	1.0	04/15/24 11:18	
EPA 903.1	Radium-226	-0.203 ± 1.12 (2.22) C:NA T:89%	pCi/L		04/23/24 14:42	
EPA 904.0	Radium-228	0.359 ± 0.394 (0.823) C:72% T:88%	pCi/L		04/22/24 14:47	
Total Radium Calculation	Total Radium	0.359 ± 1.51 (3.04)	pCi/L		04/26/24 11:38	
SM 2320B	Alkalinity, Total as CaCO3	264	mg/L	10.0	04/16/24 20:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	264	mg/L	10.0	04/16/24 20:20	
SM 2540C	Total Dissolved Solids	311	mg/L	10.0	04/15/24 11:51	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/24/24 12:29	H3
EPA 353.2	Nitrogen, Nitrate	3.9	mg/L	0.10	04/11/24 04:02	
SM 5310C	Dissolved Organic Carbon	1.2	mg/L	1.0	04/18/24 18:52	
50370281005	MW-13D					
EPA 9056	Chloride	30.9	mg/L	2.5	04/17/24 03:43	
EPA 9056	Sulfate	28.2	mg/L	0.25	04/17/24 03:25	
EPA 6010	Calcium	74600	ug/L	1000	04/16/24 10:51	
EPA 6010	Magnesium	21800	ug/L	1000	04/16/24 10:51	
EPA 6010	Potassium	1750	ug/L	1000	04/16/24 10:51	
EPA 6010	Sodium	29000	ug/L	1000	04/16/24 10:51	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370281005	MW-13D					
EPA 6020	Barium	55.1	ug/L	1.0	04/15/24 11:22	
EPA 6020	Selenium	1.2	ug/L	1.0	04/15/24 11:22	
EPA 903.1	Radium-226	-0.173 ± 1.02 (1.99) C:NA T:91%	pCi/L		04/23/24 14:42	
EPA 904.0	Radium-228	0.513 ± 0.400 (0.785) C:76% T:85%	pCi/L		04/22/24 14:48	
Total Radium Calculation	Total Radium	0.513 ± 1.42 (2.78)	pCi/L		04/26/24 11:38	
SM 2320B	Alkalinity, Total as CaCO3	268	mg/L	10.0	04/16/24 20:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	268	mg/L	10.0	04/16/24 20:20	
SM 2540C	Total Dissolved Solids	318	mg/L	10.0	04/15/24 11:51	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/24/24 12:30	H3
EPA 353.2	Nitrogen, Nitrate	1.6	mg/L	0.10	04/11/24 04:14	
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	04/18/24 19:02	
50370281006	MW-13S MSD					
EPA 903.1	Radium-226	114.10 %REC ± NA (NA) C:NA T:NA	pCi/L		04/23/24 14:42	
EPA 904.0	Radium-228	77.49 %REC 23.02RPD ± NA (NA) C:NA T:NA	pCi/L		04/22/24 14:48	

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-7S		Lab ID: 50370281001		Collected: 04/10/24 13:00		Received: 04/10/24 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	332	mg/L	25.0	6.7	100		04/16/24 22:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/16/24 22:02	16984-48-8	
Sulfate	1190	mg/L	25.0	19.0	100		04/16/24 22:38	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	4290	ug/L	100	11.4	1	04/15/24 07:52	04/16/24 10:43	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/15/24 07:52	04/16/24 10:43	7440-43-9	
Calcium	423000	ug/L	5000	284	5	04/15/24 07:52	04/16/24 13:07	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/15/24 07:52	04/16/24 10:43	7440-47-3	
Iron	143	ug/L	100	18.1	1	04/15/24 07:52	04/16/24 10:43	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/15/24 07:52	04/16/24 10:43	7439-92-1	
Lithium	87.6	ug/L	20.0	5.1	1	04/15/24 07:52	04/16/24 10:43	7439-93-2	
Magnesium	90400	ug/L	1000	32.8	1	04/15/24 07:52	04/16/24 10:43	7439-95-4	
Manganese	475	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:43	7439-96-5	
Molybdenum	23.4	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:43	7439-98-7	
Potassium	13700	ug/L	1000	120	1	04/15/24 07:52	04/16/24 10:43	7440-09-7	
Sodium	253000	ug/L	5000	241	5	04/15/24 07:52	04/16/24 13:07	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	21.0	ug/L	10.0	0.78	1	04/17/24 07:51	04/18/24 00:30	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	2.4	ug/L	1.0	0.044	1	04/13/24 13:30	04/15/24 10:51	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/13/24 13:30	04/15/24 10:51	7440-38-2	
Barium	54.1	ug/L	1.0	0.067	1	04/13/24 13:30	04/15/24 10:51	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/13/24 13:30	04/15/24 10:51	7440-41-7	
Cobalt	1.3	ug/L	1.0	0.024	1	04/13/24 13:30	04/15/24 10:51	7440-48-4	
Selenium	20.8	ug/L	1.0	0.23	1	04/13/24 13:30	04/15/24 10:51	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/13/24 13:30	04/15/24 10:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/16/24 10:36	04/16/24 17:40	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	320	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Bicarbonate (CaCO3)	320	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/16/24 20:20		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-7S Lab ID: 50370281001 Collected: 04/10/24 13:00 Received: 04/10/24 15:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2590	mg/L	40.0	40.0	1		04/15/24 11:50		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.7	Std. Units	0.10	0.10	1		04/19/24 16:32		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	4.5	mg/L	0.10	0.013	1		04/11/24 04:06	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	4.0	1.0	4		04/19/24 10:48		D3

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**ANALYTICAL RESULTS**

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-13S		Lab ID: 50370281002		Collected: 04/10/24 10:15		Received: 04/10/24 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	25.8	mg/L	2.5	0.67	10		04/16/24 23:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/16/24 23:32	16984-48-8	
Sulfate	12.5	mg/L	0.25	0.19	1		04/16/24 23:32	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	ND	ug/L	100	11.4	1	04/15/24 07:52	04/16/24 10:45	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/15/24 07:52	04/16/24 10:45	7440-43-9	
Calcium	89900	ug/L	1000	56.7	1	04/15/24 07:52	04/16/24 10:45	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/15/24 07:52	04/16/24 10:45	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/15/24 07:52	04/16/24 10:45	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/15/24 07:52	04/16/24 10:45	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/15/24 07:52	04/16/24 10:45	7439-93-2	
Magnesium	22700	ug/L	1000	32.8	1	04/15/24 07:52	04/16/24 10:45	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:45	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:45	7439-98-7	
Potassium	2950	ug/L	1000	120	1	04/15/24 07:52	04/16/24 10:45	7440-09-7	
Sodium	54200	ug/L	1000	48.2	1	04/15/24 07:52	04/16/24 10:45	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/17/24 07:51	04/18/24 00:31	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	04/13/24 13:30	04/15/24 10:54	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/13/24 13:30	04/15/24 10:54	7440-38-2	
Barium	44.5	ug/L	1.0	0.067	1	04/13/24 13:30	04/15/24 10:54	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/13/24 13:30	04/15/24 10:54	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/13/24 13:30	04/15/24 10:54	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/13/24 13:30	04/15/24 10:54	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/13/24 13:30	04/15/24 10:54	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.091	1	04/16/24 10:36	04/16/24 17:43	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	356	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Bicarbonate (CaCO3)	356	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/16/24 20:20		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-13S Lab ID: 50370281002 Collected: 04/10/24 10:15 Received: 04/10/24 15:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	445	mg/L	10.0	10.0	1		04/15/24 11:50		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/24/24 12:28		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	10.9	mg/L	1.0	0.13	10		04/11/24 03:44	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/24/24 14:55		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-13I		Lab ID: 50370281004		Collected: 04/10/24 12:30		Received: 04/10/24 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	33.4	mg/L	2.5	0.67	10		04/17/24 03:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/17/24 02:49	16984-48-8	
Sulfate	21.8	mg/L	0.25	0.19	1		04/17/24 02:49	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	11.4	1	04/15/24 07:52	04/16/24 10:49	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/15/24 07:52	04/16/24 10:49	7440-43-9	
Calcium	76600	ug/L	1000	56.7	1	04/15/24 07:52	04/16/24 10:49	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/15/24 07:52	04/16/24 10:49	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/15/24 07:52	04/16/24 10:49	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/15/24 07:52	04/16/24 10:49	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/15/24 07:52	04/16/24 10:49	7439-93-2	
Magnesium	20700	ug/L	1000	32.8	1	04/15/24 07:52	04/16/24 10:49	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:49	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:49	7439-98-7	
Potassium	2160	ug/L	1000	120	1	04/15/24 07:52	04/16/24 10:49	7440-09-7	
Sodium	29100	ug/L	1000	48.2	1	04/15/24 07:52	04/16/24 10:49	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/17/24 07:51	04/18/24 00:41	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/13/24 13:30	04/15/24 11:18	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/13/24 13:30	04/15/24 11:18	7440-38-2	
Barium	34.4	ug/L	1.0	0.067	1	04/13/24 13:30	04/15/24 11:18	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/13/24 13:30	04/15/24 11:18	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/13/24 13:30	04/15/24 11:18	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/13/24 13:30	04/15/24 11:18	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/13/24 13:30	04/15/24 11:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/16/24 10:36	04/16/24 17:50	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	264	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Bicarbonate (CaCO3)	264	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/16/24 20:20		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-13I		Lab ID: 50370281004		Collected: 04/10/24 12:30	Received: 04/10/24 15:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	311	mg/L	10.0	10.0	1		04/15/24 11:51		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/24/24 12:29		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	3.9	mg/L	0.10	0.013	1		04/11/24 04:02	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.2	mg/L	1.0	0.25	1		04/18/24 18:52		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-13D		Lab ID: 50370281005		Collected: 04/10/24 14:08		Received: 04/10/24 15:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	30.9	mg/L	2.5	0.67	10		04/17/24 03:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/17/24 03:25	16984-48-8	
Sulfate	28.2	mg/L	0.25	0.19	1		04/17/24 03:25	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	11.4	1	04/15/24 07:52	04/16/24 10:51	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/15/24 07:52	04/16/24 10:51	7440-43-9	
Calcium	74600	ug/L	1000	56.7	1	04/15/24 07:52	04/16/24 10:51	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/15/24 07:52	04/16/24 10:51	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/15/24 07:52	04/16/24 10:51	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/15/24 07:52	04/16/24 10:51	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/15/24 07:52	04/16/24 10:51	7439-93-2	
Magnesium	21800	ug/L	1000	32.8	1	04/15/24 07:52	04/16/24 10:51	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:51	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	04/15/24 07:52	04/16/24 10:51	7439-98-7	
Potassium	1750	ug/L	1000	120	1	04/15/24 07:52	04/16/24 10:51	7440-09-7	
Sodium	29000	ug/L	1000	48.2	1	04/15/24 07:52	04/16/24 10:51	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/17/24 07:51	04/18/24 00:42	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/13/24 13:30	04/15/24 11:22	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/13/24 13:30	04/15/24 11:22	7440-38-2	
Barium	55.1	ug/L	1.0	0.067	1	04/13/24 13:30	04/15/24 11:22	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/13/24 13:30	04/15/24 11:22	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/13/24 13:30	04/15/24 11:22	7440-48-4	
Selenium	1.2	ug/L	1.0	0.23	1	04/13/24 13:30	04/15/24 11:22	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/13/24 13:30	04/15/24 11:22	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/16/24 10:36	04/16/24 18:00	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	268	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Bicarbonate (CaCO3)	268	mg/L	10.0	10.0	1		04/16/24 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/16/24 20:20		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-13D Lab ID: 50370281005 Collected: 04/10/24 14:08 Received: 04/10/24 15:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	318	mg/L	10.0	10.0	1		04/15/24 11:51		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/24/24 12:30		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	1.6	mg/L	0.10	0.013	1		04/11/24 04:14	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.0	mg/L	1.0	0.25	1		04/18/24 19:02		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch:	784929	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

METHOD BLANK: 3591132 Matrix: Water
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/17/24 20:30	
Fluoride	mg/L	ND	0.10	0.017	04/17/24 20:30	
Sulfate	mg/L	ND	0.25	0.19	04/17/24 20:30	

LABORATORY CONTROL SAMPLE: 3591133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	96	80-120	
Fluoride	mg/L	1	1.0	100	80-120	
Sulfate	mg/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591134 3591135

Parameter	Units	50370281002		50370281004		50370281002		50370281004		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	25.8	25	25	49.3	49.3	94	94	80-120	0	15		
Fluoride	mg/L	ND	1	1	1.0	1.0	102	101	80-120	1	15		
Sulfate	mg/L	12.5	5	5	17.6	17.6	102	102	80-120	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591136 3591137

Parameter	Units	50370490004		50370490004		50370490004		50370490004		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	405	250	250	657	657	101	101	80-120	0	15		
Fluoride	mg/L	0.29	1	1	1.2	1.2	93	96	80-120	3	15		
Sulfate	mg/L	87.4	50	50	136	137	98	98	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370281

QC Batch: 785006 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

METHOD BLANK: 3591445 Matrix: Water
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/16/24 17:06	

LABORATORY CONTROL SAMPLE: 3591446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591447 3591448

Parameter	Units	50370280001		50370280001		50370280001		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Mercury	ug/L	ND	5	5	5.3	5.1	107	102	75-125	4	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591451 3591452

Parameter	Units	50370280006		50370280006		50370280006		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Mercury	ug/L	ND	5	5	5.0	4.7	100	94	75-125	6	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591453 3591454

Parameter	Units	50370281002		50370281002		50370281002		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Mercury	ug/L	ND	5	5	5.2	5.0	105	100	75-125	5	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch:	784602	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

METHOD BLANK: 3589546 Matrix: Water

Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	11.4	04/16/24 10:10	
Cadmium	ug/L	ND	2.0	0.74	04/16/24 10:10	
Calcium	ug/L	ND	1000	56.7	04/16/24 10:10	
Chromium	ug/L	ND	10.0	1.4	04/16/24 10:10	
Iron	ug/L	ND	100	18.1	04/16/24 10:10	
Lead	ug/L	ND	10.0	4.0	04/16/24 10:10	
Lithium	ug/L	ND	20.0	5.1	04/16/24 10:10	
Magnesium	ug/L	ND	1000	32.8	04/16/24 10:10	
Manganese	ug/L	ND	10.0	1.1	04/16/24 10:10	
Molybdenum	ug/L	ND	10.0	1.1	04/16/24 10:10	
Potassium	ug/L	ND	1000	120	04/16/24 10:10	
Sodium	ug/L	ND	1000	48.2	04/16/24 10:10	

LABORATORY CONTROL SAMPLE: 3589547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	970	97	80-120	
Cadmium	ug/L	1000	992	99	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Iron	ug/L	10000	10000	100	80-120	
Lead	ug/L	1000	978	98	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	9860	99	80-120	
Manganese	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1040	104	80-120	
Potassium	ug/L	10000	9890	99	80-120	
Sodium	ug/L	10000	9820	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3589548 3589549

Parameter	Units	50370280001		3589549		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Boron	ug/L	ND	1000	1000	1020	1020	98	98	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	978	979	98	98	75-125	0	20	
Calcium	ug/L	65700	10000	10000	73400	73700	77	80	75-125	0	20	
Chromium	ug/L	ND	1000	1000	990	989	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3589548 3589549											
Parameter	Units	50370280001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Iron	ug/L	ND	10000	10000	9810	9790	98	98	75-125	0	20
Lead	ug/L	ND	1000	1000	943	939	94	94	75-125	0	20
Lithium	ug/L	ND	1000	1000	983	985	98	98	75-125	0	20
Magnesium	ug/L	19800	10000	10000	28900	29000	91	91	75-125	0	20
Manganese	ug/L	130	1000	1000	1110	1110	98	98	75-125	0	20
Molybdenum	ug/L	ND	1000	1000	1040	1040	103	103	75-125	0	20
Potassium	ug/L	2940	10000	10000	12500	12500	95	95	75-125	0	20
Sodium	ug/L	46600	10000	10000	54200	54400	76	78	75-125	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3589550 3589551											
Parameter	Units	50370280006 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Boron	ug/L	ND	1000	1000	1010	1010	97	97	75-125	0	20
Cadmium	ug/L	ND	1000	1000	976	973	98	97	75-125	0	20
Calcium	ug/L	82800	10000	10000	91500	91400	87	86	75-125	0	20
Chromium	ug/L	ND	1000	1000	991	984	99	98	75-125	1	20
Iron	ug/L	ND	10000	10000	9790	9790	98	98	75-125	0	20
Lead	ug/L	ND	1000	1000	940	938	94	94	75-125	0	20
Lithium	ug/L	ND	1000	1000	993	989	99	99	75-125	0	20
Magnesium	ug/L	22700	10000	10000	32100	32000	94	93	75-125	0	20
Manganese	ug/L	31.1	1000	1000	1010	1010	98	98	75-125	0	20
Molybdenum	ug/L	ND	1000	1000	1030	1030	103	102	75-125	0	20
Potassium	ug/L	1340	10000	10000	10900	10900	96	95	75-125	0	20
Sodium	ug/L	8400	10000	10000	17800	17700	94	93	75-125	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3589552 3589553											
Parameter	Units	50370281002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Boron	ug/L	ND	1000	1000	1030	1040	97	98	75-125	1	20
Cadmium	ug/L	ND	1000	1000	971	980	97	98	75-125	1	20
Calcium	ug/L	89900	10000	10000	98200	99300	83	94	75-125	1	20
Chromium	ug/L	ND	1000	1000	982	988	98	99	75-125	1	20
Iron	ug/L	ND	10000	10000	9720	9790	97	97	75-125	1	20
Lead	ug/L	ND	1000	1000	927	937	92	93	75-125	1	20
Lithium	ug/L	ND	1000	1000	977	986	98	99	75-125	1	20
Magnesium	ug/L	22700	10000	10000	31800	32200	91	95	75-125	1	20
Manganese	ug/L	ND	1000	1000	972	981	96	97	75-125	1	20
Molybdenum	ug/L	ND	1000	1000	1030	1040	103	103	75-125	1	20
Potassium	ug/L	2950	10000	10000	12400	12500	95	96	75-125	1	20
Sodium	ug/L	54200	10000	10000	62600	63300	84	91	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch:	785130	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370281001, 50370281002, 50370281004, 50370281005		

METHOD BLANK: 3591859 Matrix: Water
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/17/24 23:55	

LABORATORY CONTROL SAMPLE: 3591860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	979	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3591861 3591862

Parameter	Units	50370281002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum, Dissolved	ug/L	ND	1000	1000	999	1010	100	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370281

QC Batch: 784738 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

METHOD BLANK: 3590186 Matrix: Water
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	04/15/24 10:09	
Arsenic	ug/L	ND	1.0	0.064	04/15/24 10:09	
Barium	ug/L	ND	1.0	0.067	04/15/24 10:09	
Beryllium	ug/L	ND	0.20	0.026	04/15/24 10:09	
Cobalt	ug/L	ND	1.0	0.024	04/15/24 10:09	
Selenium	ug/L	ND	1.0	0.23	04/15/24 10:09	
Thallium	ug/L	ND	1.0	0.042	04/15/24 10:09	

LABORATORY CONTROL SAMPLE: 3590187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.3	103	80-120	
Arsenic	ug/L	40	39.5	99	80-120	
Barium	ug/L	40	39.0	97	80-120	
Beryllium	ug/L	40	40.3	101	80-120	
Cobalt	ug/L	40	41.1	103	80-120	
Selenium	ug/L	40	39.5	99	80-120	
Thallium	ug/L	40	41.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3590188 3590189

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370281002 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	ug/L	ND	40	40	40	41.2	42.0	103	105	75-125	2	20	
Arsenic	ug/L	ND	40	40	40	38.1	38.8	95	96	75-125	2	20	
Barium	ug/L	44.5	40	40	40	86.1	85.6	104	103	75-125	1	20	
Beryllium	ug/L	ND	40	40	40	40.2	39.9	101	100	75-125	1	20	
Cobalt	ug/L	ND	40	40	40	38.1	38.8	95	97	75-125	2	20	
Selenium	ug/L	ND	40	40	40	37.6	37.5	93	93	75-125	0	20	
Thallium	ug/L	ND	40	40	40	41.3	41.9	103	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch: 785216 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

METHOD BLANK: 3592145 Matrix: Water
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/16/24 20:20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/16/24 20:20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/16/24 20:20	

LABORATORY CONTROL SAMPLE: 3592146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	90-110	

SAMPLE DUPLICATE: 3592147

Parameter	Units	50370281002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	356	361	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	356	361	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3592148

Parameter	Units	50370291003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	388	354	9	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	388	354	9	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch:	784847	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

METHOD BLANK: 3590930 Matrix: Water
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/15/24 11:45	

LABORATORY CONTROL SAMPLE: 3590931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	80-120	

SAMPLE DUPLICATE: 3590932

Parameter	Units	50370280006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	260	264	2	10	

SAMPLE DUPLICATE: 3590933

Parameter	Units	50370281002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	445	424	5	10	

SAMPLE DUPLICATE: 3590934

Parameter	Units	50370284006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	453000 ug/L	473	4	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch:	785858	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370281001

SAMPLE DUPLICATE: 3595039

Parameter	Units	50370189003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3595040

Parameter	Units	50370280006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch:	786418	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370281002, 50370281004, 50370281005

SAMPLE DUPLICATE: 3597549

Parameter	Units	50370318001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	1	2	H3

SAMPLE DUPLICATE: 3597620

Parameter	Units	50370280001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	2	H3

SAMPLE DUPLICATE: 3597621

Parameter	Units	50370281002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch:	784397	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

METHOD BLANK: 3588546 Matrix: Water
 Associated Lab Samples: 50370281001, 50370281002, 50370281004, 50370281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/11/24 02:43	

LABORATORY CONTROL SAMPLE: 3588547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.93	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588548 3588549

Parameter	Units	50369839005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.20	1	1	1.2	1.2	97	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588550 3588551

Parameter	Units	50370281002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	10.9	10	10	20.7	20.6	98	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588552 3588553

Parameter	Units	50370280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.17	1	1	1.1	1.1	97	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3588554 3588555

Parameter	Units	50370280006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	4.8	5	5	9.9	9.9	101	101	90-110	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch:	785323	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370281001, 50370281004, 50370281005		

METHOD BLANK: 3592646 Matrix: Water
 Associated Lab Samples: 50370281001, 50370281004, 50370281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/18/24 14:55	

LABORATORY CONTROL SAMPLE: 3592647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592648 3592649

Parameter	Units	50370280001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.4	10	10	10.5	10.3	91	90	80-120	1	20	

MATRIX SPIKE SAMPLE: 3592650

Parameter	Units	10689345001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5.2	10	14.9	97	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370281

QC Batch: 786243	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370281002

METHOD BLANK: 3596772 Matrix: Water
 Associated Lab Samples: 50370281002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/24/24 14:02	

LABORATORY CONTROL SAMPLE: 3596773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596774 3596775

Parameter	Units	50370280006		3596775		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Dissolved Organic Carbon	mg/L	ND	10	10	9.9	9.7	93	90	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596776 3596777

Parameter	Units	50370281002		3596777		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Dissolved Organic Carbon	mg/L	ND	10	10	10.5	9.9	95	89	80-120	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596778 3596779

Parameter	Units	50370647006		3596779		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Dissolved Organic Carbon	mg/L	1.3	10	10	10.3	10.3	90	91	80-120	0	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-7S **Lab ID: 50370281001** Collected: 04/10/24 13:00 Received: 04/10/24 15:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.569 ± 0.698 (1.15) C:NA T:94%	pCi/L	04/23/24 14:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.220 ± 0.390 (0.852) C:70% T:84%	pCi/L	04/22/24 14:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.789 ± 1.09 (2.00)	pCi/L	04/26/24 11:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-13S Lab ID: 50370281002 Collected: 04/10/24 10:15 Received: 04/10/24 15:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.445 (0.925) C:NA T:87%	pCi/L	04/23/24 14:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.391 ± 0.368 (0.742) C:74% T:82%	pCi/L	04/22/24 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.391 ± 0.813 (1.67)	pCi/L	04/26/24 11:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	120.40 %REC 5.37RPD ± NA (NA) C:NA T:NA	pCi/L	04/23/24 14:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	61.49 %REC ± NA (NA) C:NA T:NA	pCi/L	04/22/24 14:47	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-131 Lab ID: 50370281004 Collected: 04/10/24 12:30 Received: 04/10/24 15:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.203 ± 1.12 (2.22) C:NA T:89%	pCi/L	04/23/24 14:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.359 ± 0.394 (0.823) C:72% T:88%	pCi/L	04/22/24 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.359 ± 1.51 (3.04)	pCi/L	04/26/24 11:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Sample: MW-13D **Lab ID: 50370281005** Collected: 04/10/24 14:08 Received: 04/10/24 15:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.173 ± 1.02 (1.99) C:NA T:91%	pCi/L	04/23/24 14:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.513 ± 0.400 (0.785) C:76% T:85%	pCi/L	04/22/24 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.513 ± 1.42 (2.78)	pCi/L	04/26/24 11:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-13S MSD Lab ID: 50370281006 Collected: 04/10/24 10:15 Received: 04/10/24 15:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	114.10 %REC ± NA (NA) C:NA T:NA	pCi/L	04/23/24 14:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	77.49 %REC 23.02RPD ± NA (NA) C:NA T:NA	pCi/L	04/22/24 14:48	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch:	662211	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: 50370281001, 50370281002, 50370281003, 50370281004, 50370281005, 50370281006

METHOD BLANK: 3224948 Matrix: Water

Associated Lab Samples: 50370281001, 50370281002, 50370281003, 50370281004, 50370281005, 50370281006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.00507 ± 0.340 (0.800) C:68% T:83%	pCi/L	04/22/24 14:49	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

QC Batch: 662210

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: 50370281001, 50370281002, 50370281003, 50370281004, 50370281005, 50370281006

METHOD BLANK: 3224947

Matrix: Water

Associated Lab Samples: 50370281001, 50370281002, 50370281003, 50370281004, 50370281005, 50370281006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.517 ± 0.405 (0.476) C:NA T:88%	pCi/L	04/23/24 14:42	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

H3 Sample was received or analysis requested beyond the recognized method holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370281001	MW-7S	EPA 9056	784929		
50370281002	MW-13S	EPA 9056	784929		
50370281004	MW-13I	EPA 9056	784929		
50370281005	MW-13D	EPA 9056	784929		
50370281001	MW-7S	EPA 3010	784602	EPA 6010	785088
50370281002	MW-13S	EPA 3010	784602	EPA 6010	785088
50370281004	MW-13I	EPA 3010	784602	EPA 6010	785088
50370281005	MW-13D	EPA 3010	784602	EPA 6010	785088
50370281001	MW-7S	EPA 3010	785130	EPA 6010	785482
50370281002	MW-13S	EPA 3010	785130	EPA 6010	785482
50370281004	MW-13I	EPA 3010	785130	EPA 6010	785482
50370281005	MW-13D	EPA 3010	785130	EPA 6010	785482
50370281001	MW-7S	EPA 200.2	784738	EPA 6020	784827
50370281002	MW-13S	EPA 200.2	784738	EPA 6020	784827
50370281004	MW-13I	EPA 200.2	784738	EPA 6020	784827
50370281005	MW-13D	EPA 200.2	784738	EPA 6020	784827
50370281001	MW-7S	EPA 7470	785006	EPA 7470	785195
50370281002	MW-13S	EPA 7470	785006	EPA 7470	785195
50370281004	MW-13I	EPA 7470	785006	EPA 7470	785195
50370281005	MW-13D	EPA 7470	785006	EPA 7470	785195
50370281001	MW-7S	EPA 903.1	662210		
50370281002	MW-13S	EPA 903.1	662210		
50370281003	MW-13S MS	EPA 903.1	662210		
50370281004	MW-13I	EPA 903.1	662210		
50370281005	MW-13D	EPA 903.1	662210		
50370281006	MW-13S MSD	EPA 903.1	662210		
50370281001	MW-7S	EPA 904.0	662211		
50370281002	MW-13S	EPA 904.0	662211		
50370281003	MW-13S MS	EPA 904.0	662211		
50370281004	MW-13I	EPA 904.0	662211		
50370281005	MW-13D	EPA 904.0	662211		
50370281006	MW-13S MSD	EPA 904.0	662211		
50370281001	MW-7S	Total Radium Calculation	664842		
50370281002	MW-13S	Total Radium Calculation	664842		
50370281004	MW-13I	Total Radium Calculation	664842		
50370281005	MW-13D	Total Radium Calculation	664842		
50370281001	MW-7S	SM 2320B	785216		
50370281002	MW-13S	SM 2320B	785216		
50370281004	MW-13I	SM 2320B	785216		
50370281005	MW-13D	SM 2320B	785216		
50370281001	MW-7S	SM 2540C	784847		
50370281002	MW-13S	SM 2540C	784847		
50370281004	MW-13I	SM 2540C	784847		
50370281005	MW-13D	SM 2540C	784847		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370281

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370281001	MW-7S	SM 4500-H+B	785858		
50370281002	MW-13S	SM 4500-H+B	786418		
50370281004	MW-13I	SM 4500-H+B	786418		
50370281005	MW-13D	SM 4500-H+B	786418		
50370281001	MW-7S	EPA 353.2	784397		
50370281002	MW-13S	EPA 353.2	784397		
50370281004	MW-13I	EPA 353.2	784397		
50370281005	MW-13D	EPA 353.2	784397		
50370281001	MW-7S	SM 5310C	785323		
50370281002	MW-13S	SM 5310C	786243		
50370281004	MW-13I	SM 5310C	785323		
50370281005	MW-13D	SM 5310C	785323		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/10/24 17:01 TIA

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H
4. Cooler Temperature(s): 0.8/0.8 1.9/1.9
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.		<input checked="" type="checkbox"/>	
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate by 353.2	<input checked="" type="checkbox"/>		Circle: NO3 (<2) <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab			Time:	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Requested (4 days or less):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Custody Sig. Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?		<input checked="" type="checkbox"/>	
			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS: COC SAYS MS/MSDS but container says ms/msd 2.



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50370647

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Illinois Accreditation #: 200074
 Indiana Drinking Water Laboratory #: C-49-06
 Kansas/TNI Certification #: E-10177
 Kentucky UST Agency Interest #: 80226
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
 Oklahoma Laboratory #: 9204
 Texas Certification #: T104704355
 Washington Dept of Ecology #: C1081
 Wisconsin Laboratory #: 999788130
 USDA Foreign Soil Permit #: 525-23-13-23119
 USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370647001	MW-14S	Water	04/15/24 14:49	04/15/24 17:05
50370647002	MW-14I	Water	04/15/24 13:24	04/15/24 17:05
50370647003	MW-14D	Water	04/15/24 15:01	04/15/24 17:05
50370647004	MW-24S	Water	04/15/24 14:52	04/15/24 17:05
50370647005	MW-24I	Water	04/15/24 13:33	04/15/24 17:05
50370647006	MW-24D	Water	04/15/24 11:35	04/15/24 17:05
50370647007	MW-24D MS	Water	04/15/24 11:35	04/15/24 17:05
50370647008	MW-24D MSD	Water	04/15/24 11:35	04/15/24 17:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370647001	MW-14S	EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	WDB	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50370647002	MW-14I	EPA 9056	ADM
EPA 6010	JPK			12	PASI-I
EPA 6010	NWB			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	WDB			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50370647003	MW-14D			EPA 9056	ADM
		EPA 6010	JPK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	WDB	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370647004	MW-24S	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	WDB	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		50370647005	MW-24I	EPA 353.2	DAW
SM 5310C	YAM			1	PASI-I
EPA 9056	ADM			3	PASI-I
EPA 6010	JPK			12	PASI-I
EPA 6010	NWB			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	WDB			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
50370647006	MW-24D			EPA 353.2	DAW
		SM 5310C	YAM	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	NWB	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	WDB	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
50370647007	MW-24D MS	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50370647008	MW-24D MSD	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370647001	MW-14S					
EPA 9056	Chloride	6.4	mg/L	0.25	04/26/24 00:58	
EPA 9056	Fluoride	0.11	mg/L	0.10	04/26/24 00:58	
EPA 9056	Sulfate	32.1	mg/L	0.25	04/26/24 00:58	
EPA 6010	Boron	718	ug/L	100	04/19/24 23:14	
EPA 6010	Calcium	97700	ug/L	1000	04/19/24 23:14	
EPA 6010	Iron	184	ug/L	100	04/19/24 23:14	
EPA 6010	Lithium	33.1	ug/L	20.0	04/19/24 23:14	
EPA 6010	Magnesium	25200	ug/L	1000	04/19/24 23:14	
EPA 6010	Manganese	11.2	ug/L	10.0	04/19/24 23:14	
EPA 6010	Molybdenum	57.7	ug/L	10.0	04/19/24 23:14	
EPA 6010	Potassium	2630	ug/L	1000	04/19/24 23:14	
EPA 6010	Sodium	17000	ug/L	1000	04/19/24 23:14	
EPA 6010	Molybdenum, Dissolved	57.2	ug/L	10.0	04/18/24 12:40	
EPA 6020	Barium	32.8	ug/L	1.0	04/19/24 07:04	
EPA 6020	Selenium	1.0	ug/L	1.0	04/19/24 07:04	
EPA 903.1	Radium-226	0.193 ± 0.704 (1.30) C:NA T:92%	pCi/L		04/30/24 15:03	
EPA 904.0	Radium-228	-0.0717 ± 0.394 (0.920) C:81% T:85%	pCi/L		04/25/24 12:37	
Total Radium Calculation	Total Radium	0.193 ± 1.10 (2.22)	pCi/L		04/30/24 16:17	
SM 2320B	Alkalinity, Total as CaCO3	315	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	315	mg/L	10.0	04/19/24 12:06	
SM 2540C	Total Dissolved Solids	380	mg/L	10.0	04/18/24 09:47	
SM 4500-H+B	pH at 25 Degrees C	6.7	Std. Units	0.10	04/25/24 14:16	H3
EPA 353.2	Nitrogen, Nitrate	9.4	mg/L	0.50	04/16/24 23:28	
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	04/24/24 17:24	
50370647002	MW-14I					
EPA 9056	Chloride	75.1	mg/L	2.5	04/26/24 01:32	
EPA 9056	Sulfate	117	mg/L	2.5	04/26/24 01:32	
EPA 6010	Boron	3850	ug/L	100	04/19/24 23:16	
EPA 6010	Calcium	96300	ug/L	1000	04/19/24 23:16	
EPA 6010	Lithium	83.0	ug/L	20.0	04/19/24 23:16	
EPA 6010	Magnesium	23100	ug/L	1000	04/19/24 23:16	
EPA 6010	Molybdenum	121	ug/L	10.0	04/19/24 23:16	
EPA 6010	Potassium	4640	ug/L	1000	04/19/24 23:16	
EPA 6010	Sodium	75100	ug/L	1000	04/19/24 23:16	
EPA 6010	Molybdenum, Dissolved	121	ug/L	10.0	04/18/24 12:42	
EPA 6020	Barium	40.8	ug/L	1.0	04/19/24 07:07	
EPA 903.1	Radium-226	0.000 ± 0.933 (1.77) C:NA T:87%	pCi/L		04/30/24 15:28	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50370647

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370647002	MW-14I					
EPA 904.0	Radium-228	0.754 ± 0.493 (0.956) C:78% T:81%	pCi/L		04/25/24 12:38	
Total Radium Calculation	Total Radium	0.754 ± 1.43 (2.73)	pCi/L		04/30/24 16:17	
SM 2320B	Alkalinity, Total as CaCO3	287	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	287	mg/L	10.0	04/19/24 12:06	
SM 2540C	Total Dissolved Solids	546	mg/L	10.0	04/18/24 09:47	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	04/25/24 14:17	H3
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	04/24/24 17:35	
50370647003	MW-14D					
EPA 9056	Chloride	147	mg/L	2.5	04/26/24 02:23	
EPA 9056	Sulfate	245	mg/L	2.5	04/26/24 02:23	
EPA 6010	Boron	4320	ug/L	100	04/19/24 23:17	
EPA 6010	Calcium	138000	ug/L	1000	04/19/24 23:17	
EPA 6010	Lithium	20.5	ug/L	20.0	04/19/24 23:17	
EPA 6010	Magnesium	30300	ug/L	1000	04/19/24 23:17	
EPA 6010	Manganese	119	ug/L	10.0	04/19/24 23:17	
EPA 6010	Potassium	3910	ug/L	1000	04/19/24 23:17	
EPA 6010	Sodium	87700	ug/L	1000	04/19/24 23:17	
EPA 6020	Barium	22.2	ug/L	1.0	04/19/24 07:11	
EPA 903.1	Radium-226	0.270 ± 0.419 (0.725) C:NA T:89%	pCi/L		04/30/24 15:03	
EPA 904.0	Radium-228	0.597 ± 0.456 (0.910) C:79% T:81%	pCi/L		04/25/24 12:38	
Total Radium Calculation	Total Radium	0.867 ± 0.875 (1.64)	pCi/L		04/30/24 16:17	
SM 2320B	Alkalinity, Total as CaCO3	245	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	245	mg/L	10.0	04/19/24 12:06	
SM 2540C	Total Dissolved Solids	754	mg/L	20.0	04/18/24 09:48	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/25/24 14:18	H3
SM 5310C	Dissolved Organic Carbon	1.8	mg/L	1.0	04/24/24 17:46	
50370647004	MW-24S					
EPA 9056	Chloride	108	mg/L	2.5	04/25/24 23:17	
EPA 9056	Fluoride	0.35	mg/L	0.10	04/25/24 23:00	
EPA 9056	Sulfate	79.3	mg/L	2.5	04/25/24 23:17	
EPA 6010	Boron	128	ug/L	100	04/19/24 23:19	
EPA 6010	Calcium	63200	ug/L	1000	04/19/24 23:19	
EPA 6010	Iron	112	ug/L	100	04/19/24 23:19	
EPA 6010	Magnesium	22000	ug/L	1000	04/19/24 23:19	
EPA 6010	Manganese	43.7	ug/L	10.0	04/19/24 23:19	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370647004	MW-24S					
EPA 6010	Molybdenum	40.9	ug/L	10.0	04/19/24 23:19	
EPA 6010	Potassium	3900	ug/L	1000	04/19/24 23:19	
EPA 6010	Sodium	88800	ug/L	1000	04/19/24 23:19	
EPA 6010	Molybdenum, Dissolved	41.3	ug/L	10.0	04/18/24 12:45	
EPA 6020	Barium	59.8	ug/L	1.0	04/19/24 07:14	
EPA 6020	Selenium	2.3	ug/L	1.0	04/19/24 07:14	
EPA 903.1	Radium-226	0.877 ± 0.680 (0.994)	pCi/L		04/30/24 15:03	
EPA 904.0	Radium-228	C:NA T:88% 0.470 ± 0.470 (0.975) C:78% T:75%	pCi/L		04/25/24 12:38	
Total Radium Calculation	Total Radium	1.35 ± 1.15 (1.97)	pCi/L		04/30/24 16:17	
SM 2320B	Alkalinity, Total as CaCO3	215	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	197	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Carbonate (CaCO3)	18.0	mg/L	10.0	04/19/24 12:06	
SM 2540C	Total Dissolved Solids	472	mg/L	10.0	04/18/24 09:50	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/25/24 14:19	H3
EPA 353.2	Nitrogen, Nitrate	2.5	mg/L	0.10	04/16/24 23:30	
SM 5310C	Dissolved Organic Carbon	1.5	mg/L	1.0	04/24/24 17:58	
50370647005	MW-24I					
EPA 9056	Chloride	194	mg/L	2.5	04/26/24 03:48	
EPA 9056	Fluoride	0.29	mg/L	0.10	04/26/24 03:31	
EPA 9056	Sulfate	175	mg/L	2.5	04/26/24 03:48	
EPA 6010	Boron	152	ug/L	100	04/19/24 23:20	
EPA 6010	Calcium	92500	ug/L	1000	04/19/24 23:20	
EPA 6010	Iron	903	ug/L	100	04/19/24 23:20	
EPA 6010	Lithium	20.4	ug/L	20.0	04/19/24 23:20	
EPA 6010	Magnesium	27800	ug/L	1000	04/19/24 23:20	
EPA 6010	Manganese	216	ug/L	10.0	04/19/24 23:20	
EPA 6010	Molybdenum	69.4	ug/L	10.0	04/19/24 23:20	
EPA 6010	Potassium	7210	ug/L	1000	04/19/24 23:20	
EPA 6010	Sodium	133000	ug/L	1000	04/19/24 23:20	
EPA 6010	Molybdenum, Dissolved	65.7	ug/L	10.0	04/18/24 12:46	
EPA 6020	Arsenic	2.3	ug/L	1.0	04/19/24 07:17	
EPA 6020	Barium	112	ug/L	1.0	04/19/24 07:17	
EPA 903.1	Radium-226	1.37 ± 0.726 (0.778)	pCi/L		04/30/24 15:16	
EPA 904.0	Radium-228	C:NA T:91% 0.899 ± 0.545 (1.03) C:77% T:76%	pCi/L		04/25/24 12:42	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370647005	MW-24I					
Total Radium Calculation	Total Radium	2.27 ± 1.27 (1.81)	pCi/L		04/30/24 16:17	
SM 2320B	Alkalinity, Total as CaCO3	242	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	242	mg/L	10.0	04/19/24 12:06	
SM 2540C	Total Dissolved Solids	710	mg/L	20.0	04/18/24 09:50	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/25/24 14:20	H3
SM 5310C	Dissolved Organic Carbon	1.8	mg/L	1.0	04/24/24 18:09	
50370647006	MW-24D					
EPA 9056	Chloride	65.5	mg/L	2.5	04/25/24 08:16	
EPA 9056	Fluoride	0.30	mg/L	0.10	04/25/24 07:59	
EPA 9056	Sulfate	48.3	mg/L	2.5	04/25/24 08:16	
EPA 6010	Calcium	76300	ug/L	1000	04/19/24 23:21	
EPA 6010	Iron	928	ug/L	100	04/19/24 23:21	
EPA 6010	Magnesium	25000	ug/L	1000	04/19/24 23:21	
EPA 6010	Manganese	152	ug/L	10.0	04/19/24 23:21	
EPA 6010	Molybdenum	11.7	ug/L	10.0	04/19/24 23:21	
EPA 6010	Potassium	4100	ug/L	1000	04/19/24 23:21	
EPA 6010	Sodium	48100	ug/L	1000	04/19/24 23:21	
EPA 6010	Molybdenum, Dissolved	11.2	ug/L	10.0	04/18/24 12:51	
EPA 6020	Arsenic	2.5	ug/L	1.0	04/19/24 08:11	
EPA 6020	Barium	81.6	ug/L	1.0	04/19/24 08:11	
EPA 903.1	Radium-226	0.733 ± 0.464 (0.524) C:NA T:85%	pCi/L		04/30/24 15:16	
EPA 904.0	Radium-228	0.635 ± 0.450 (0.879) C:74% T:82%	pCi/L		04/25/24 12:39	
Total Radium Calculation	Total Radium	1.37 ± 0.914 (1.40)	pCi/L		04/30/24 16:17	
SM 2320B	Alkalinity, Total as CaCO3	275	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	256	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Carbonate (CaCO3)	19.2	mg/L	10.0	04/19/24 12:06	
SM 2540C	Total Dissolved Solids	408	mg/L	10.0	04/18/24 09:50	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/25/24 14:22	H3
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/24/24 18:51	
50370647007	MW-24D MS					
EPA 903.1	Radium-226	106.24 %REC ± NA (NA) C:NA T:NA	pCi/L		04/30/24 15:16	
EPA 904.0	Radium-228	81.47 %REC ± NA (NA) C:NA T:NA	pCi/L		04/25/24 12:39	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370647008	MW-24D MSD					
EPA 903.1	Radium-226	88.07 %REC 18.69RPD ± NA (NA) C:NA T:NA	pCi/L		04/30/24 15:16	
EPA 904.0	Radium-228	96.59 %REC 16.99RPD ± NA (NA) C:NA T:NA	pCi/L		04/25/24 12:39	

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**ANALYTICAL RESULTS**

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-14S		Lab ID: 50370647001		Collected: 04/15/24 14:49		Received: 04/15/24 17:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	6.4	mg/L	0.25	0.067	1		04/26/24 00:58	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.017	1		04/26/24 00:58	16984-48-8	
Sulfate	32.1	mg/L	0.25	0.19	1		04/26/24 00:58	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	718	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:14	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:14	7440-43-9	
Calcium	97700	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:14	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:14	7440-47-3	
Iron	184	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:14	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:14	7439-92-1	
Lithium	33.1	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:14	7439-93-2	
Magnesium	25200	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:14	7439-95-4	
Manganese	11.2	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:14	7439-96-5	
Molybdenum	57.7	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:14	7439-98-7	
Potassium	2630	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:14	7440-09-7	
Sodium	17000	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:14	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	57.2	ug/L	10.0	1.1	1	04/17/24 20:43	04/18/24 12:40	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/18/24 15:28	04/19/24 07:04	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/18/24 15:28	04/19/24 07:04	7440-38-2	
Barium	32.8	ug/L	1.0	0.067	1	04/18/24 15:28	04/19/24 07:04	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/18/24 15:28	04/19/24 07:04	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/18/24 15:28	04/19/24 07:04	7440-48-4	
Selenium	1.0	ug/L	1.0	0.23	1	04/18/24 15:28	04/19/24 07:04	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/18/24 15:28	04/19/24 07:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:13	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	315	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Bicarbonate (CaCO3)	315	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/19/24 12:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-14S		Lab ID: 50370647001		Collected: 04/15/24 14:49	Received: 04/15/24 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	380	mg/L	10.0	10.0	1		04/18/24 09:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.7	Std. Units	0.10	0.10	1		04/25/24 14:16		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	9.4	mg/L	0.50	0.065	5		04/16/24 23:28	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.0	mg/L	1.0	0.25	1		04/24/24 17:24		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-141 Lab ID: 50370647002 Collected: 04/15/24 13:24 Received: 04/15/24 17:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	75.1	mg/L	2.5	0.67	10		04/26/24 01:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/26/24 01:15	16984-48-8	
Sulfate	117	mg/L	2.5	1.9	10		04/26/24 01:32	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	3850	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:16	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:16	7440-43-9	
Calcium	96300	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:16	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:16	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:16	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:16	7439-92-1	
Lithium	83.0	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:16	7439-93-2	
Magnesium	23100	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:16	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:16	7439-96-5	
Molybdenum	121	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:16	7439-98-7	
Potassium	4640	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:16	7440-09-7	
Sodium	75100	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:16	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	121	ug/L	10.0	1.1	1	04/17/24 20:43	04/18/24 12:42	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/18/24 15:28	04/19/24 07:07	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/18/24 15:28	04/19/24 07:07	7440-38-2	
Barium	40.8	ug/L	1.0	0.067	1	04/18/24 15:28	04/19/24 07:07	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/18/24 15:28	04/19/24 07:07	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/18/24 15:28	04/19/24 07:07	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/18/24 15:28	04/19/24 07:07	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/18/24 15:28	04/19/24 07:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:16	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	287	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Bicarbonate (CaCO3)	287	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/19/24 12:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-14I		Lab ID: 50370647002		Collected: 04/15/24 13:24	Received: 04/15/24 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	546	mg/L	10.0	10.0	1		04/18/24 09:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.9	Std. Units	0.10	0.10	1		04/25/24 14:17		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 22:32	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.6	mg/L	1.0	0.25	1		04/24/24 17:35		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50370647

Sample: MW-14D **Lab ID: 50370647003** Collected: 04/15/24 15:01 Received: 04/15/24 17:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	147	mg/L	2.5	0.67	10		04/26/24 02:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/26/24 02:06	16984-48-8	
Sulfate	245	mg/L	2.5	1.9	10		04/26/24 02:23	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	4320	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:17	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:17	7440-43-9	
Calcium	138000	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:17	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:17	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:17	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:17	7439-92-1	
Lithium	20.5	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:17	7439-93-2	
Magnesium	30300	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:17	7439-95-4	
Manganese	119	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:17	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:17	7439-98-7	
Potassium	3910	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:17	7440-09-7	
Sodium	87700	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:17	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	1.1	1	04/17/24 20:43	04/18/24 12:43	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/18/24 15:28	04/19/24 07:11	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/18/24 15:28	04/19/24 07:11	7440-38-2	
Barium	22.2	ug/L	1.0	0.067	1	04/18/24 15:28	04/19/24 07:11	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/18/24 15:28	04/19/24 07:11	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/18/24 15:28	04/19/24 07:11	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/18/24 15:28	04/19/24 07:11	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/18/24 15:28	04/19/24 07:11	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:18	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	245	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Bicarbonate (CaCO3)	245	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/19/24 12:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-14D		Lab ID: 50370647003		Collected: 04/15/24 15:01	Received: 04/15/24 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	754	mg/L	20.0	20.0	1		04/18/24 09:48		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.1	Std. Units	0.10	0.10	1		04/25/24 14:18		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 22:58	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.8	mg/L	1.0	0.25	1		04/24/24 17:46		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-24S		Lab ID: 50370647004		Collected: 04/15/24 14:52		Received: 04/15/24 17:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	108	mg/L	2.5	0.67	10		04/25/24 23:17	16887-00-6	
Fluoride	0.35	mg/L	0.10	0.017	1		04/25/24 23:00	16984-48-8	
Sulfate	79.3	mg/L	2.5	1.9	10		04/25/24 23:17	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	128	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:19	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:19	7440-43-9	
Calcium	63200	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:19	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:19	7440-47-3	
Iron	112	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:19	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:19	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:19	7439-93-2	
Magnesium	22000	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:19	7439-95-4	
Manganese	43.7	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:19	7439-96-5	
Molybdenum	40.9	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:19	7439-98-7	
Potassium	3900	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:19	7440-09-7	
Sodium	88800	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:19	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	41.3	ug/L	10.0	1.1	1	04/17/24 20:43	04/18/24 12:45	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.044	1	04/18/24 15:28	04/19/24 07:14	7440-36-0	
Arsenic	ND	ug/L	1.0	0.064	1	04/18/24 15:28	04/19/24 07:14	7440-38-2	
Barium	59.8	ug/L	1.0	0.067	1	04/18/24 15:28	04/19/24 07:14	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/18/24 15:28	04/19/24 07:14	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/18/24 15:28	04/19/24 07:14	7440-48-4	
Selenium	2.3	ug/L	1.0	0.23	1	04/18/24 15:28	04/19/24 07:14	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/18/24 15:28	04/19/24 07:14	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:21	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	215	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Bicarbonate (CaCO3)	197	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Carbonate (CaCO3)	18.0	mg/L	10.0	10.0	1		04/19/24 12:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-24S		Lab ID: 50370647004		Collected: 04/15/24 14:52	Received: 04/15/24 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	472	mg/L	10.0	10.0	1		04/18/24 09:50		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		04/25/24 14:19		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	2.5	mg/L	0.10	0.013	1		04/16/24 23:30	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.5	mg/L	1.0	0.25	1		04/24/24 17:58		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-24I		Lab ID: 50370647005		Collected: 04/15/24 13:33		Received: 04/15/24 17:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	194	mg/L	2.5	0.67	10		04/26/24 03:48	16887-00-6	
Fluoride	0.29	mg/L	0.10	0.017	1		04/26/24 03:31	16984-48-8	
Sulfate	175	mg/L	2.5	1.9	10		04/26/24 03:48	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	152	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:20	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:20	7440-43-9	
Calcium	92500	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:20	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:20	7440-47-3	
Iron	903	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:20	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:20	7439-92-1	
Lithium	20.4	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:20	7439-93-2	
Magnesium	27800	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:20	7439-95-4	
Manganese	216	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:20	7439-96-5	
Molybdenum	69.4	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:20	7439-98-7	
Potassium	7210	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:20	7440-09-7	
Sodium	133000	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:20	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	65.7	ug/L	10.0	1.1	1	04/17/24 20:43	04/18/24 12:46	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.044	1	04/18/24 15:28	04/19/24 07:17	7440-36-0	
Arsenic	2.3	ug/L	1.0	0.064	1	04/18/24 15:28	04/19/24 07:17	7440-38-2	
Barium	112	ug/L	1.0	0.067	1	04/18/24 15:28	04/19/24 07:17	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/18/24 15:28	04/19/24 07:17	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/18/24 15:28	04/19/24 07:17	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/18/24 15:28	04/19/24 07:17	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/18/24 15:28	04/19/24 07:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:23	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	242	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Bicarbonate (CaCO3)	242	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/19/24 12:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-24I		Lab ID: 50370647005		Collected: 04/15/24 13:33	Received: 04/15/24 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	710	mg/L	20.0	20.0	1		04/18/24 09:50		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/25/24 14:20		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 22:34	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.8	mg/L	1.0	0.25	1		04/24/24 18:09		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-24D Lab ID: 50370647006 Collected: 04/15/24 11:35 Received: 04/15/24 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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9056 IC Anions

Analytical Method: EPA 9056
Pace Analytical Services - Indianapolis

Chloride	65.5	mg/L	2.5	0.67	10		04/25/24 08:16	16887-00-6	
Fluoride	0.30	mg/L	0.10	0.017	1		04/25/24 07:59	16984-48-8	
Sulfate	48.3	mg/L	2.5	1.9	10		04/25/24 08:16	14808-79-8	

6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010
Pace Analytical Services - Indianapolis

Boron	ND	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:21	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:21	7440-43-9	
Calcium	76300	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:21	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:21	7440-47-3	
Iron	928	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:21	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:21	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:21	7439-93-2	
Magnesium	25000	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:21	7439-95-4	
Manganese	152	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:21	7439-96-5	
Molybdenum	11.7	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:21	7439-98-7	
Potassium	4100	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:21	7440-09-7	
Sodium	48100	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:21	7440-23-5	

6010 MET ICP, Dissolved

Analytical Method: EPA 6010 Preparation Method: EPA 3010
Pace Analytical Services - Indianapolis

Molybdenum, Dissolved	11.2	ug/L	10.0	1.1	1	04/17/24 20:43	04/18/24 12:51	7439-98-7	
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6020 MET ICPMS

Analytical Method: EPA 6020 Preparation Method: EPA 200.2
Pace Analytical Services - Indianapolis

Antimony	ND	ug/L	1.0	0.044	1	04/18/24 15:28	04/19/24 08:11	7440-36-0	
Arsenic	2.5	ug/L	1.0	0.064	1	04/18/24 15:28	04/19/24 08:11	7440-38-2	
Barium	81.6	ug/L	1.0	0.067	1	04/18/24 15:28	04/19/24 08:11	7440-39-3	
Beryllium	ND	ug/L	0.20	0.026	1	04/18/24 15:28	04/19/24 08:11	7440-41-7	
Cobalt	ND	ug/L	1.0	0.024	1	04/18/24 15:28	04/19/24 08:11	7440-48-4	
Selenium	ND	ug/L	1.0	0.23	1	04/18/24 15:28	04/19/24 08:11	7782-49-2	
Thallium	ND	ug/L	1.0	0.042	1	04/18/24 15:28	04/19/24 08:11	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470 Preparation Method: EPA 7470
Pace Analytical Services - Indianapolis

Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:26	7439-97-6	
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Indianapolis

Alkalinity, Total as CaCO3	275	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Bicarbonate (CaCO3)	256	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Carbonate (CaCO3)	19.2	mg/L	10.0	10.0	1		04/19/24 12:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-24D		Lab ID: 50370647006		Collected: 04/15/24 11:35	Received: 04/15/24 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	408	mg/L	10.0	10.0	1		04/18/24 09:50		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/25/24 14:22		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 22:12	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/24/24 18:51		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch: 786245 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

METHOD BLANK: 3596790 Matrix: Water
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/25/24 07:25	
Fluoride	mg/L	ND	0.10	0.017	04/25/24 07:25	
Sulfate	mg/L	ND	0.25	0.19	04/25/24 07:25	

LABORATORY CONTROL SAMPLE: 3596791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	1.0	101	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596792 3596793

Parameter	Units	50370647006		50370647006		3596792		3596793		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	65.5	25	25	88.6	88.5	92	92	80-120	0	15		
Fluoride	mg/L	0.30	1	1	1.3	1.3	104	103	80-120	0	15		
Sulfate	mg/L	48.3	50	50	95.2	95.0	94	93	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.

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch: 785801 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

METHOD BLANK: 3594847 Matrix: Water
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/24/24 16:09	

LABORATORY CONTROL SAMPLE: 3594848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3594849 3594850

Parameter	Units	50370647006		3594850		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	ug/L	ND	5	5	4.7	4.7	94	94	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch:	785237	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

METHOD BLANK: 3592270 Matrix: Water

Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/19/24 22:56	
Cadmium	ug/L	ND	2.0	0.60	04/19/24 22:56	
Calcium	ug/L	ND	1000	67.7	04/19/24 22:56	
Chromium	ug/L	ND	10.0	0.42	04/19/24 22:56	
Iron	ug/L	ND	100	30.0	04/19/24 22:56	
Lead	ug/L	ND	10.0	2.5	04/19/24 22:56	
Lithium	ug/L	ND	20.0	6.8	04/19/24 22:56	
Magnesium	ug/L	ND	1000	33.6	04/19/24 22:56	
Manganese	ug/L	ND	10.0	1.8	04/19/24 22:56	
Molybdenum	ug/L	ND	10.0	0.78	04/19/24 22:56	
Potassium	ug/L	ND	1000	97.8	04/19/24 22:56	
Sodium	ug/L	ND	1000	54.8	04/19/24 22:56	

LABORATORY CONTROL SAMPLE: 3592271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	961	96	80-120	
Cadmium	ug/L	1000	995	100	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Chromium	ug/L	1000	985	98	80-120	
Iron	ug/L	10000	9920	99	80-120	
Lead	ug/L	1000	967	97	80-120	
Lithium	ug/L	1000	986	99	80-120	
Magnesium	ug/L	10000	9780	98	80-120	
Manganese	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	
Potassium	ug/L	10000	9790	98	80-120	
Sodium	ug/L	10000	9730	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592272 3592273

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50370647006	Conc.	Conc.	Result							Result
Boron	ug/L	ND	1000	1000	1100	1080	101	99	75-125	2	20	
Cadmium	ug/L	ND	1000	1000	1030	1000	103	100	75-125	2	20	
Calcium	ug/L	76300	10000	10000	88000	83500	117	72	75-125	5	20	P6
Chromium	ug/L	ND	1000	1000	999	979	100	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592272 3592273													
Parameter	Units	50370647006		MS		MSD		3592273		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Iron	ug/L	928	10000	10000	11000	10800	101	98	75-125	2	20		
Lead	ug/L	ND	1000	1000	965	947	97	95	75-125	2	20		
Lithium	ug/L	ND	1000	1000	1020	1000	101	99	75-125	2	20		
Magnesium	ug/L	25000	10000	10000	35500	33900	105	89	75-125	5	20		
Manganese	ug/L	152	1000	1000	1170	1140	102	99	75-125	2	20		
Molybdenum	ug/L	11.7	1000	1000	1070	1050	106	104	75-125	2	20		
Potassium	ug/L	4100	10000	10000	14300	13800	101	97	75-125	3	20		
Sodium	ug/L	48100	10000	10000	58900	55900	108	78	75-125	5	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch: 785246 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

METHOD BLANK: 3592326 Matrix: Water
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	1.1	04/18/24 12:15	

LABORATORY CONTROL SAMPLE: 3592327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	998	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592328 3592329

Parameter	Units	50370647006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum, Dissolved	ug/L	11.2	1000	1000	1040	1030	102	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50370647

QC Batch: 785449 Analysis Method: EPA 6020
 QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

METHOD BLANK: 3593051 Matrix: Water
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.044	04/19/24 04:18	
Arsenic	ug/L	ND	1.0	0.064	04/19/24 04:18	
Barium	ug/L	ND	1.0	0.067	04/19/24 04:18	
Beryllium	ug/L	ND	0.20	0.026	04/19/24 04:18	
Cobalt	ug/L	ND	1.0	0.024	04/19/24 04:18	
Selenium	ug/L	ND	1.0	0.23	04/19/24 04:18	
Thallium	ug/L	ND	1.0	0.042	04/19/24 04:18	

LABORATORY CONTROL SAMPLE: 3593052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.3	103	80-120	
Arsenic	ug/L	40	38.7	97	80-120	
Barium	ug/L	40	39.2	98	80-120	
Beryllium	ug/L	40	38.6	96	80-120	
Cobalt	ug/L	40	40.5	101	80-120	
Selenium	ug/L	40	38.3	96	80-120	
Thallium	ug/L	40	41.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3593053 3593054

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370647006	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	42.3	42.2	106	106	75-125	0	20
Arsenic	ug/L	2.5	40	40	40.3	40.4	94	95	75-125	0	20
Barium	ug/L	81.6	40	40	122	123	101	103	75-125	1	20
Beryllium	ug/L	ND	40	40	37.4	37.5	93	94	75-125	0	20
Cobalt	ug/L	ND	40	40	37.2	37.3	93	93	75-125	0	20
Selenium	ug/L	ND	40	40	37.0	37.5	92	94	75-125	1	20
Thallium	ug/L	ND	40	40	42.3	42.7	106	107	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch:	785722	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

METHOD BLANK: 3594544 Matrix: Water
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/19/24 12:06	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/19/24 12:06	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/19/24 12:06	

LABORATORY CONTROL SAMPLE: 3594545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	90-110	

SAMPLE DUPLICATE: 3594546

Parameter	Units	50370629003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	285	289	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	285	289	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3594547

Parameter	Units	50370647006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	275	275	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	256	255	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	19.2	20.0	4	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch: 785500

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

METHOD BLANK: 3593427

Matrix: Water

Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/18/24 09:42	

LABORATORY CONTROL SAMPLE: 3593428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	270	90	80-120	

SAMPLE DUPLICATE: 3593429

Parameter	Units	50370594012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1400	1290	8	10	

SAMPLE DUPLICATE: 3593430

Parameter	Units	50370647006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	408	406	0	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch: 786657

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

SAMPLE DUPLICATE: 3598566

Parameter	Units	50371397001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	2	H3

SAMPLE DUPLICATE: 3598567

Parameter	Units	50370647006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch:	785252	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370647002, 50370647005, 50370647006		

METHOD BLANK: 3592338 Matrix: Water

Associated Lab Samples: 50370647002, 50370647005, 50370647006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/16/24 21:44	

LABORATORY CONTROL SAMPLE: 3592339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592340 3592341

Parameter	Units	50370647006		50370647005		50370647006		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	102	103	90-110	0	20

MATRIX SPIKE SAMPLE: 3592342

Parameter	Units	50370683001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	1	3.0	99	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch:	785253	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370647001, 50370647003, 50370647004		

METHOD BLANK: 3592343 Matrix: Water

Associated Lab Samples: 50370647001, 50370647003, 50370647004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/16/24 22:38	

LABORATORY CONTROL SAMPLE: 3592344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592345 3592346

Parameter	Units	50370673007		50370673007		50370673007		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Nitrogen, Nitrate	mg/L	0.76	1	1	1.8	1.8	105	106	90-110	1	20

MATRIX SPIKE SAMPLE: 3592347

Parameter	Units	50370739001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.2	1	2.2	103	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch:	786243	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

METHOD BLANK: 3596772 Matrix: Water
 Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/24/24 14:02	

LABORATORY CONTROL SAMPLE: 3596773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596774 3596775

Parameter	Units	50370280006		50370280006		50370280006		50370280006		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Dissolved Organic Carbon	mg/L	ND	10	10	10	9.9	9.7	93	90	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596776 3596777

Parameter	Units	50370281002		50370281002		50370281002		50370281002		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Dissolved Organic Carbon	mg/L	ND	10	10	10	10.5	9.9	95	89	80-120	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596778 3596779

Parameter	Units	50370647006		50370647006		50370647006		50370647006		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Dissolved Organic Carbon	mg/L	1.3	10	10	10	10.3	10.3	90	91	80-120	0	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-14S **Lab ID: 50370647001** Collected: 04/15/24 14:49 Received: 04/15/24 17:05 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.193 ± 0.704 (1.30) C:NA T:92%	pCi/L	04/30/24 15:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.0717 ± 0.394 (0.920) C:81% T:85%	pCi/L	04/25/24 12:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.193 ± 1.10 (2.22)	pCi/L	04/30/24 16:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-141 **Lab ID: 50370647002** Collected: 04/15/24 13:24 Received: 04/15/24 17:05 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.000 ± 0.933 (1.77) C:NA T:87%	pCi/L	04/30/24 15:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.754 ± 0.493 (0.956) C:78% T:81%	pCi/L	04/25/24 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.754 ± 1.43 (2.73)	pCi/L	04/30/24 16:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-14D	Lab ID: 50370647003	Collected: 04/15/24 15:01	Received: 04/15/24 17:05	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.270 ± 0.419 (0.725) C:NA T:89%	pCi/L	04/30/24 15:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.597 ± 0.456 (0.910) C:79% T:81%	pCi/L	04/25/24 12:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.867 ± 0.875 (1.64)	pCi/L	04/30/24 16:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-24S **Lab ID: 50370647004** Collected: 04/15/24 14:52 Received: 04/15/24 17:05 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.877 ± 0.680 (0.994) C:NA T:88%	pCi/L	04/30/24 15:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.470 ± 0.470 (0.975) C:78% T:75%	pCi/L	04/25/24 12:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.35 ± 1.15 (1.97)	pCi/L	04/30/24 16:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.37 ± 0.726 (0.778) C:NA T:91%	pCi/L	04/30/24 15:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.899 ± 0.545 (1.03) C:77% T:76%	pCi/L	04/25/24 12:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.27 ± 1.27 (1.81)	pCi/L	04/30/24 16:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.733 ± 0.464 (0.524) C:NA T:85%	pCi/L	04/30/24 15:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.635 ± 0.450 (0.879) C:74% T:82%	pCi/L	04/25/24 12:39	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.37 ± 0.914 (1.40)	pCi/L	04/30/24 16:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	106.24 %REC ± NA (NA) C:NA T:NA	pCi/L	04/30/24 15:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	81.47 %REC ± NA (NA) C:NA T:NA	pCi/L	04/25/24 12:39	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Sample: MW-24D MSD	Lab ID: 50370647008	Collected: 04/15/24 11:35	Received: 04/15/24 17:05	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	88.07 %REC 18.69RPD ± NA (NA) C:NA T:NA	pCi/L	04/30/24 15:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	96.59 %REC 16.99RPD ± NA (NA) C:NA T:NA	pCi/L	04/25/24 12:39	15262-20-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch:	663035	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: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006, 50370647007, 50370647008

METHOD BLANK:	3229152	Matrix:	Water
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Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006, 50370647007, 50370647008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.323 ± 0.337 (0.698) C:79% T:85%	pCi/L	04/25/24 12:38	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

QC Batch:	663034	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: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006, 50370647007, 50370647008

METHOD BLANK: 3229151 Matrix: Water

Associated Lab Samples: 50370647001, 50370647002, 50370647003, 50370647004, 50370647005, 50370647006, 50370647007, 50370647008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0907 ± 0.207 (0.334) C:NA T:99%	pCi/L	04/30/24 15:03	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370647001	MW-14S	EPA 9056	786245		
50370647002	MW-14I	EPA 9056	786245		
50370647003	MW-14D	EPA 9056	786245		
50370647004	MW-24S	EPA 9056	786245		
50370647005	MW-24I	EPA 9056	786245		
50370647006	MW-24D	EPA 9056	786245		
50370647001	MW-14S	EPA 3010	785237	EPA 6010	785885
50370647002	MW-14I	EPA 3010	785237	EPA 6010	785885
50370647003	MW-14D	EPA 3010	785237	EPA 6010	785885
50370647004	MW-24S	EPA 3010	785237	EPA 6010	785885
50370647005	MW-24I	EPA 3010	785237	EPA 6010	785885
50370647006	MW-24D	EPA 3010	785237	EPA 6010	785885
50370647001	MW-14S	EPA 3010	785246	EPA 6010	785562
50370647002	MW-14I	EPA 3010	785246	EPA 6010	785562
50370647003	MW-14D	EPA 3010	785246	EPA 6010	785562
50370647004	MW-24S	EPA 3010	785246	EPA 6010	785562
50370647005	MW-24I	EPA 3010	785246	EPA 6010	785562
50370647006	MW-24D	EPA 3010	785246	EPA 6010	785562
50370647001	MW-14S	EPA 200.2	785449	EPA 6020	785701
50370647002	MW-14I	EPA 200.2	785449	EPA 6020	785701
50370647003	MW-14D	EPA 200.2	785449	EPA 6020	785701
50370647004	MW-24S	EPA 200.2	785449	EPA 6020	785701
50370647005	MW-24I	EPA 200.2	785449	EPA 6020	785701
50370647006	MW-24D	EPA 200.2	785449	EPA 6020	785701
50370647001	MW-14S	EPA 7470	785801	EPA 7470	786508
50370647002	MW-14I	EPA 7470	785801	EPA 7470	786508
50370647003	MW-14D	EPA 7470	785801	EPA 7470	786508
50370647004	MW-24S	EPA 7470	785801	EPA 7470	786508
50370647005	MW-24I	EPA 7470	785801	EPA 7470	786508
50370647006	MW-24D	EPA 7470	785801	EPA 7470	786508
50370647001	MW-14S	EPA 903.1	663034		
50370647002	MW-14I	EPA 903.1	663034		
50370647003	MW-14D	EPA 903.1	663034		
50370647004	MW-24S	EPA 903.1	663034		
50370647005	MW-24I	EPA 903.1	663034		
50370647006	MW-24D	EPA 903.1	663034		
50370647007	MW-24D MS	EPA 903.1	663034		
50370647008	MW-24D MSD	EPA 903.1	663034		
50370647001	MW-14S	EPA 904.0	663035		
50370647002	MW-14I	EPA 904.0	663035		
50370647003	MW-14D	EPA 904.0	663035		
50370647004	MW-24S	EPA 904.0	663035		
50370647005	MW-24I	EPA 904.0	663035		
50370647006	MW-24D	EPA 904.0	663035		
50370647007	MW-24D MS	EPA 904.0	663035		
50370647008	MW-24D MSD	EPA 904.0	663035		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370647

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370647001	MW-14S	Total Radium Calculation	665557		
50370647002	MW-14I	Total Radium Calculation	665557		
50370647003	MW-14D	Total Radium Calculation	665557		
50370647004	MW-24S	Total Radium Calculation	665557		
50370647005	MW-24I	Total Radium Calculation	665557		
50370647006	MW-24D	Total Radium Calculation	665557		
50370647001	MW-14S	SM 2320B	785722		
50370647002	MW-14I	SM 2320B	785722		
50370647003	MW-14D	SM 2320B	785722		
50370647004	MW-24S	SM 2320B	785722		
50370647005	MW-24I	SM 2320B	785722		
50370647006	MW-24D	SM 2320B	785722		
50370647001	MW-14S	SM 2540C	785500		
50370647002	MW-14I	SM 2540C	785500		
50370647003	MW-14D	SM 2540C	785500		
50370647004	MW-24S	SM 2540C	785500		
50370647005	MW-24I	SM 2540C	785500		
50370647006	MW-24D	SM 2540C	785500		
50370647001	MW-14S	SM 4500-H+B	786657		
50370647002	MW-14I	SM 4500-H+B	786657		
50370647003	MW-14D	SM 4500-H+B	786657		
50370647004	MW-24S	SM 4500-H+B	786657		
50370647005	MW-24I	SM 4500-H+B	786657		
50370647006	MW-24D	SM 4500-H+B	786657		
50370647001	MW-14S	EPA 353.2	785253		
50370647002	MW-14I	EPA 353.2	785252		
50370647003	MW-14D	EPA 353.2	785253		
50370647004	MW-24S	EPA 353.2	785253		
50370647005	MW-24I	EPA 353.2	785252		
50370647006	MW-24D	EPA 353.2	785252		
50370647001	MW-14S	SM 5310C	786243		
50370647002	MW-14I	SM 5310C	786243		
50370647003	MW-14D	SM 5310C	786243		
50370647004	MW-24S	SM 5310C	786243		
50370647005	MW-24I	SM 5310C	786243		
50370647006	MW-24D	SM 5310C	786243		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/15/24 17:55 JG

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes) Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

4. Cooler Temperature(s): 2.3/2.3 3.0/3.0 2.8/0.8 _____
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<u>—</u>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>Nitrate</u>	<u>—</u>		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<u>—</u>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<u>—</u>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<u>—</u>
Custody Signatures Present?	<u>—</u>		Headspace Wisconsin Sulfide?			<u>—</u>
Containers Intact?:	<u>—</u>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		<u>—</u>	Trip Blank Present?		<u>—</u>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<u>—</u>

COMMENTS: Sample labels have smudged ink, certain containers missing time & date because of it (From sample point 4-8) JG 4/15/24



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370648

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370648

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370648001	MW-20S	Water	04/15/24 12:34	04/15/24 17:05
50370648002	MW-20I	Water	04/15/24 13:40	04/15/24 17:05
50370648003	MW-20D	Water	04/15/24 12:10	04/15/24 17:05
50370648004	Dup-9	Water	04/15/24 08:00	04/15/24 17:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370648001	MW-20S	EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	WDB	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50370648002	MW-20I	EPA 9056	ADM
EPA 6010	JPK			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	WDB			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50370648003	MW-20D			EPA 9056	ADM
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	WDB	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370648004	Dup-9	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	WDB	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370648001	MW-20S					
EPA 9056	Chloride	28.7	mg/L	2.5	04/26/24 12:10	
EPA 9056	Sulfate	11.6	mg/L	0.25	04/26/24 04:05	
EPA 6010	Calcium	111000	ug/L	1000	04/19/24 23:32	
EPA 6010	Iron	102	ug/L	100	04/19/24 23:32	
EPA 6010	Magnesium	27400	ug/L	1000	04/19/24 23:32	
EPA 6010	Potassium	2380	ug/L	1000	04/19/24 23:32	
EPA 6010	Sodium	21600	ug/L	1000	04/19/24 23:32	
EPA 6020	Barium	25.6	ug/L	1.0	04/18/24 07:52	
EPA 903.1	Radium-226	0.739 ± 0.805 (1.31) C:NA T:89%	pCi/L		04/29/24 13:12	
EPA 904.0	Radium-228	0.147 ± 0.277 (0.610) C:78% T:87%	pCi/L		04/25/24 14:23	
Total Radium Calculation	Total Radium	0.886 ± 1.08 (1.92)	pCi/L		04/29/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	376	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	354	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Carbonate (CaCO3)	22.4	mg/L	10.0	04/19/24 12:06	
SM 2540C	Total Dissolved Solids	417	mg/L	10.0	04/18/24 09:51	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/25/24 14:24	H3
EPA 353.2	Nitrogen, Nitrate	5.5	mg/L	0.20	04/16/24 23:24	
SM 5310C	Dissolved Organic Carbon	2.4	mg/L	1.0	04/24/24 19:19	
50370648002	MW-20I					
EPA 9056	Chloride	21.1	mg/L	0.25	04/25/24 13:51	
EPA 9056	Sulfate	24.9	mg/L	0.25	04/25/24 13:51	
EPA 6010	Calcium	80300	ug/L	1000	04/19/24 23:33	
EPA 6010	Iron	1100	ug/L	100	04/19/24 23:33	
EPA 6010	Magnesium	23300	ug/L	1000	04/19/24 23:33	
EPA 6010	Manganese	62.8	ug/L	10.0	04/19/24 23:33	
EPA 6010	Potassium	3610	ug/L	1000	04/19/24 23:33	
EPA 6010	Sodium	11000	ug/L	1000	04/19/24 23:33	
EPA 6020	Arsenic	1.0	ug/L	1.0	04/18/24 07:28	
EPA 6020	Barium	48.3	ug/L	1.0	04/18/24 07:28	
EPA 903.1	Radium-226	1.02 ± 0.928 (1.47) C:NA T:90%	pCi/L		04/29/24 13:12	
EPA 904.0	Radium-228	0.396 ± 0.422 (0.882) C:80% T:86%	pCi/L		04/25/24 14:24	
Total Radium Calculation	Total Radium	1.42 ± 1.35 (2.35)	pCi/L		04/29/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	270	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	249	mg/L	10.0	04/19/24 12:06	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370648002	MW-20I					
SM 2320B	Alkalinity,Carbonate (CaCO3)	20.8	mg/L	10.0	04/19/24 12:06	
SM 2540C	Total Dissolved Solids	305	mg/L	10.0	04/19/24 10:10	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/25/24 14:25	H3
EPA 353.2	Nitrogen, Nitrate	2.3	mg/L	0.10	04/16/24 22:36	
SM 5310C	Dissolved Organic Carbon	1.0	mg/L	1.0	04/24/24 19:30	
50370648003	MW-20D					
EPA 9056	Chloride	22.3	mg/L	0.25	04/25/24 14:25	
EPA 9056	Sulfate	30.3	mg/L	0.25	04/25/24 14:25	
EPA 6010	Calcium	79400	ug/L	1000	04/19/24 23:34	
EPA 6010	Iron	228	ug/L	100	04/19/24 23:34	
EPA 6010	Magnesium	24700	ug/L	1000	04/19/24 23:34	
EPA 6010	Potassium	2440	ug/L	1000	04/19/24 23:34	
EPA 6010	Sodium	8360	ug/L	1000	04/19/24 23:34	
EPA 6020	Barium	32.4	ug/L	1.0	04/18/24 07:55	
EPA 903.1	Radium-226	0.389 ± 0.624 (1.08) C:NA T:91%	pCi/L		04/29/24 13:27	
EPA 904.0	Radium-228	0.735 ± 0.412 (0.742) C:79% T:84%	pCi/L		04/25/24 14:24	
Total Radium Calculation	Total Radium	1.12 ± 1.04 (1.82)	pCi/L		04/29/24 15:07	
SM 2320B	Alkalinity, Total as CaCO3	263	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	04/19/24 12:06	
SM 2320B	Alkalinity,Carbonate (CaCO3)	19.2	mg/L	10.0	04/19/24 12:06	
SM 2540C	Total Dissolved Solids	319	mg/L	10.0	04/18/24 09:51	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/25/24 14:26	H3
EPA 353.2	Nitrogen, Nitrate	2.7	mg/L	0.10	04/16/24 22:21	
SM 5310C	Dissolved Organic Carbon	1.6	mg/L	1.0	04/24/24 19:40	
50370648004	Dup-9					
EPA 9056	Chloride	22.4	mg/L	0.25	04/25/24 14:59	
EPA 9056	Sulfate	30.4	mg/L	0.25	04/25/24 14:59	
EPA 6010	Calcium	81500	ug/L	1000	04/19/24 23:36	
EPA 6010	Iron	221	ug/L	100	04/19/24 23:36	
EPA 6010	Magnesium	25300	ug/L	1000	04/19/24 23:36	
EPA 6010	Potassium	2520	ug/L	1000	04/19/24 23:36	
EPA 6010	Sodium	8630	ug/L	1000	04/19/24 23:36	
EPA 6020	Barium	32.3	ug/L	1.0	04/18/24 07:59	
EPA 903.1	Radium-226	-0.236 ± 0.518 (1.11) C:NA T:89%	pCi/L		04/29/24 13:27	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370648004	Dup-9					
EPA 904.0	Radium-228	0.455 ± 0.379 (0.756) C:75% T:86%	pCi/L		04/25/24 14:24	
Total Radium Calculation	Total Radium	0.455 ± 0.897 (1.87)	pCi/L		04/29/24 15:07	
SM 2320B	Alkalinity, Total as CaCO ₃	264	mg/L	10.0	04/19/24 12:01	
SM 2320B	Alkalinity, Bicarbonate (CaCO ₃)	264	mg/L	10.0	04/19/24 12:01	
SM 2540C	Total Dissolved Solids	313	mg/L	10.0	04/19/24 10:10	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	04/25/24 14:28	H3
EPA 353.2	Nitrogen, Nitrate	2.7	mg/L	0.10	04/16/24 21:59	

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Sample: MW-20S Lab ID: 50370648001 Collected: 04/15/24 12:34 Received: 04/15/24 17:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	28.7	mg/L	2.5	0.67	10		04/26/24 12:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/26/24 04:05	16984-48-8	
Sulfate	11.6	mg/L	0.25	0.19	1		04/26/24 04:05	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:32	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:32	7440-43-9	
Calcium	111000	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:32	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:32	7440-47-3	
Iron	102	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:32	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:32	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:32	7439-93-2	
Magnesium	27400	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:32	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:32	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:32	7439-98-7	
Potassium	2380	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:32	7440-09-7	
Sodium	21600	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:32	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/20/24 01:26	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/17/24 16:25	04/18/24 07:52	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/17/24 16:25	04/18/24 07:52	7440-38-2	
Barium	25.6	ug/L	1.0	0.090	1	04/17/24 16:25	04/18/24 07:52	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/17/24 16:25	04/18/24 07:52	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/17/24 16:25	04/18/24 07:52	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/17/24 16:25	04/18/24 07:52	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/17/24 16:25	04/18/24 07:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:38	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	376	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Bicarbonate (CaCO3)	354	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Carbonate (CaCO3)	22.4	mg/L	10.0	10.0	1		04/19/24 12:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Sample: MW-20S Lab ID: 50370648001 Collected: 04/15/24 12:34 Received: 04/15/24 17:05 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	417	mg/L	10.0	10.0	1		04/18/24 09:51		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/25/24 14:24		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	5.5	mg/L	0.20	0.026	2		04/16/24 23:24	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	2.4	mg/L	1.0	0.25	1		04/24/24 19:19		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Sample: MW-201 Lab ID: 50370648002 Collected: 04/15/24 13:40 Received: 04/15/24 17:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	21.1	mg/L	0.25	0.067	1		04/25/24 13:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/25/24 13:51	16984-48-8	
Sulfate	24.9	mg/L	0.25	0.19	1		04/25/24 13:51	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:33	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:33	7440-43-9	
Calcium	80300	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:33	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:33	7440-47-3	
Iron	1100	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:33	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:33	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:33	7439-93-2	
Magnesium	23300	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:33	7439-95-4	
Manganese	62.8	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:33	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:33	7439-98-7	
Potassium	3610	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:33	7440-09-7	
Sodium	11000	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:33	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/20/24 01:28	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/17/24 16:25	04/18/24 07:28	7440-36-0	
Arsenic	1.0	ug/L	1.0	0.11	1	04/17/24 16:25	04/18/24 07:28	7440-38-2	
Barium	48.3	ug/L	1.0	0.090	1	04/17/24 16:25	04/18/24 07:28	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/17/24 16:25	04/18/24 07:28	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/17/24 16:25	04/18/24 07:28	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/17/24 16:25	04/18/24 07:28	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/17/24 16:25	04/18/24 07:28	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:40	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	270	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Bicarbonate (CaCO3)	249	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Carbonate (CaCO3)	20.8	mg/L	10.0	10.0	1		04/19/24 12:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Sample: MW-20I		Lab ID: 50370648002		Collected: 04/15/24 13:40	Received: 04/15/24 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	305	mg/L	10.0	10.0	1		04/19/24 10:10		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		04/25/24 14:25		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	2.3	mg/L	0.10	0.013	1		04/16/24 22:36	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.0	mg/L	1.0	0.25	1		04/24/24 19:30		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50370648

Sample: MW-20D **Lab ID: 50370648003** Collected: 04/15/24 12:10 Received: 04/15/24 17:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	22.3	mg/L	0.25	0.067	1		04/25/24 14:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/25/24 14:25	16984-48-8	
Sulfate	30.3	mg/L	0.25	0.19	1		04/25/24 14:25	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:34	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:34	7440-43-9	
Calcium	79400	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:34	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:34	7440-47-3	
Iron	228	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:34	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:34	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:34	7439-93-2	
Magnesium	24700	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:34	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:34	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:34	7439-98-7	
Potassium	2440	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:34	7440-09-7	
Sodium	8360	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:34	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/20/24 01:29	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/17/24 16:25	04/18/24 07:55	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/17/24 16:25	04/18/24 07:55	7440-38-2	
Barium	32.4	ug/L	1.0	0.090	1	04/17/24 16:25	04/18/24 07:55	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/17/24 16:25	04/18/24 07:55	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/17/24 16:25	04/18/24 07:55	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/17/24 16:25	04/18/24 07:55	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/17/24 16:25	04/18/24 07:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:43	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	263	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	10.0	1		04/19/24 12:06		
Alkalinity,Carbonate (CaCO3)	19.2	mg/L	10.0	10.0	1		04/19/24 12:06		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Sample: MW-20D		Lab ID: 50370648003		Collected: 04/15/24 12:10	Received: 04/15/24 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	319	mg/L	10.0	10.0	1		04/18/24 09:51		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/25/24 14:26		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	2.7	mg/L	0.10	0.013	1		04/16/24 22:21	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.6	mg/L	1.0	0.25	1		04/24/24 19:40		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Sample: Dup-9		Lab ID: 50370648004		Collected: 04/15/24 08:00		Received: 04/15/24 17:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	22.4	mg/L	0.25	0.067	1		04/25/24 14:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/25/24 14:59	16984-48-8	
Sulfate	30.4	mg/L	0.25	0.19	1		04/25/24 14:59	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	ND	ug/L	100	6.2	1	04/19/24 08:14	04/19/24 23:36	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 08:14	04/19/24 23:36	7440-43-9	
Calcium	81500	ug/L	1000	67.7	1	04/19/24 08:14	04/19/24 23:36	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 08:14	04/19/24 23:36	7440-47-3	
Iron	221	ug/L	100	30.0	1	04/19/24 08:14	04/19/24 23:36	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 08:14	04/19/24 23:36	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 08:14	04/19/24 23:36	7439-93-2	
Magnesium	25300	ug/L	1000	33.6	1	04/19/24 08:14	04/19/24 23:36	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/19/24 08:14	04/19/24 23:36	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/19/24 23:36	7439-98-7	
Potassium	2520	ug/L	1000	97.8	1	04/19/24 08:14	04/19/24 23:36	7440-09-7	
Sodium	8630	ug/L	1000	54.8	1	04/19/24 08:14	04/19/24 23:36	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/20/24 01:31	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.27	1	04/17/24 16:25	04/18/24 07:59	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/17/24 16:25	04/18/24 07:59	7440-38-2	
Barium	32.3	ug/L	1.0	0.090	1	04/17/24 16:25	04/18/24 07:59	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/17/24 16:25	04/18/24 07:59	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/17/24 16:25	04/18/24 07:59	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/17/24 16:25	04/18/24 07:59	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/17/24 16:25	04/18/24 07:59	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 20:44	04/24/24 16:45	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	264	mg/L	10.0	10.0	1		04/19/24 12:01		
Alkalinity,Bicarbonate (CaCO3)	264	mg/L	10.0	10.0	1		04/19/24 12:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/19/24 12:01		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Sample: Dup-9		Lab ID: 50370648004		Collected: 04/15/24 08:00	Received: 04/15/24 17:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	313	mg/L	10.0	10.0	1		04/19/24 10:10		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.8	Std. Units	0.10	0.10	1		04/25/24 14:28		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	2.7	mg/L	0.10	0.013	1		04/16/24 21:59	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/24/24 19:50		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch:	786245	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

METHOD BLANK: 3596790 Matrix: Water
 Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/25/24 07:25	
Fluoride	mg/L	ND	0.10	0.017	04/25/24 07:25	
Sulfate	mg/L	ND	0.25	0.19	04/25/24 07:25	

LABORATORY CONTROL SAMPLE: 3596791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	1.0	101	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596792 3596793

Parameter	Units	50370647006		50370647006		50370647006		50370647006		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	65.5	25	25	88.6	88.5	92	92	80-120	0	15		
Fluoride	mg/L	0.30	1	1	1.3	1.3	104	103	80-120	0	15		
Sulfate	mg/L	48.3	50	50	95.2	95.0	94	93	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch:	785801	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

METHOD BLANK: 3594847 Matrix: Water
 Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/24/24 16:09	

LABORATORY CONTROL SAMPLE: 3594848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3594849 3594850

Parameter	Units	50370647006		3594850		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	ug/L	ND	5	5	4.7	4.7	94	94	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch:	785237	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

METHOD BLANK: 3592270 Matrix: Water

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/19/24 22:56	
Cadmium	ug/L	ND	2.0	0.60	04/19/24 22:56	
Calcium	ug/L	ND	1000	67.7	04/19/24 22:56	
Chromium	ug/L	ND	10.0	0.42	04/19/24 22:56	
Iron	ug/L	ND	100	30.0	04/19/24 22:56	
Lead	ug/L	ND	10.0	2.5	04/19/24 22:56	
Lithium	ug/L	ND	20.0	6.8	04/19/24 22:56	
Magnesium	ug/L	ND	1000	33.6	04/19/24 22:56	
Manganese	ug/L	ND	10.0	1.8	04/19/24 22:56	
Molybdenum	ug/L	ND	10.0	0.78	04/19/24 22:56	
Potassium	ug/L	ND	1000	97.8	04/19/24 22:56	
Sodium	ug/L	ND	1000	54.8	04/19/24 22:56	

LABORATORY CONTROL SAMPLE: 3592271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	961	96	80-120	
Cadmium	ug/L	1000	995	100	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Chromium	ug/L	1000	985	98	80-120	
Iron	ug/L	10000	9920	99	80-120	
Lead	ug/L	1000	967	97	80-120	
Lithium	ug/L	1000	986	99	80-120	
Magnesium	ug/L	10000	9780	98	80-120	
Manganese	ug/L	1000	1010	101	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	
Potassium	ug/L	10000	9790	98	80-120	
Sodium	ug/L	10000	9730	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592272 3592273

Parameter	Units	3592272		3592273		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370647006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Boron	ug/L	ND	1000	1000	1100	101	99	75-125	2	20	
Cadmium	ug/L	ND	1000	1000	1030	103	100	75-125	2	20	
Calcium	ug/L	76300	10000	10000	88000	117	72	75-125	5	20 P6	
Chromium	ug/L	ND	1000	1000	999	979	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592272 3592273												
Parameter	Units	50370647006		MS		MSD		MS		MSD		
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec	% Rec	
										% Rec	Max RPD	Qual
Iron	ug/L	928	10000	10000	11000	10800	101	98	75-125	2	20	
Lead	ug/L	ND	1000	1000	965	947	97	95	75-125	2	20	
Lithium	ug/L	ND	1000	1000	1020	1000	101	99	75-125	2	20	
Magnesium	ug/L	25000	10000	10000	35500	33900	105	89	75-125	5	20	
Manganese	ug/L	152	1000	1000	1170	1140	102	99	75-125	2	20	
Molybdenum	ug/L	11.7	1000	1000	1070	1050	106	104	75-125	2	20	
Potassium	ug/L	4100	10000	10000	14300	13800	101	97	75-125	3	20	
Sodium	ug/L	48100	10000	10000	58900	55900	108	78	75-125	5	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch:	785247	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

METHOD BLANK: 3592330 Matrix: Water
 Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/20/24 01:09	

LABORATORY CONTROL SAMPLE: 3592331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592332 3592333

Parameter	Units	50370343021		50370343022		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Molybdenum, Dissolved	ug/L	23.4	1000	1070	1070	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch:	785206	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

METHOD BLANK: 3592104 Matrix: Water

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.27	04/18/24 04:13	
Arsenic	ug/L	ND	1.0	0.11	04/18/24 04:13	
Barium	ug/L	ND	1.0	0.090	04/18/24 04:13	
Beryllium	ug/L	ND	0.20	0.030	04/18/24 04:13	
Cobalt	ug/L	ND	1.0	0.16	04/18/24 04:13	
Selenium	ug/L	ND	1.0	0.22	04/18/24 04:13	
Thallium	ug/L	ND	1.0	0.043	04/18/24 04:13	

LABORATORY CONTROL SAMPLE: 3592105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.5	104	80-120	
Arsenic	ug/L	40	38.3	96	80-120	
Barium	ug/L	40	38.0	95	80-120	
Beryllium	ug/L	40	37.1	93	80-120	
Cobalt	ug/L	40	40.6	102	80-120	
Selenium	ug/L	40	37.6	94	80-120	
Thallium	ug/L	40	39.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592106 3592107

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370648002 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	40.6	40.1	101	100	75-125	1	20
Arsenic	ug/L	1.0	40	40	39.4	39.2	96	95	75-125	1	20
Barium	ug/L	48.3	40	40	89.9	89.1	104	102	75-125	1	20
Beryllium	ug/L	ND	40	40	39.2	38.5	98	96	75-125	2	20
Cobalt	ug/L	ND	40	40	39.5	39.1	97	96	75-125	1	20
Selenium	ug/L	ND	40	40	38.1	37.9	94	94	75-125	0	20
Thallium	ug/L	ND	40	40	41.7	41.5	104	104	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch:	785722	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648001, 50370648002, 50370648003

METHOD BLANK: 3594544 Matrix: Water
 Associated Lab Samples: 50370648001, 50370648002, 50370648003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/19/24 12:06	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/19/24 12:06	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/19/24 12:06	

LABORATORY CONTROL SAMPLE: 3594545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	90-110	

SAMPLE DUPLICATE: 3594546

Parameter	Units	50370629003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	285	289	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	285	289	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3594547

Parameter	Units	50370647006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	275	275	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	256	255	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	19.2	20.0	4	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch: 785724

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648004

METHOD BLANK: 3594548

Matrix: Water

Associated Lab Samples: 50370648004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/19/24 12:01	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/19/24 12:01	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/19/24 12:01	

LABORATORY CONTROL SAMPLE: 3594549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.7	99	90-110	

SAMPLE DUPLICATE: 3594550

Parameter	Units	50370673004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	171	170	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	171	170	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3594551

Parameter	Units	50370854008 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	247	251	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	235	239	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	12.0	11.2	7	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch: 785500

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648001, 50370648003

METHOD BLANK: 3593427

Matrix: Water

Associated Lab Samples: 50370648001, 50370648003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/18/24 09:42	

LABORATORY CONTROL SAMPLE: 3593428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	270	90	80-120	

SAMPLE DUPLICATE: 3593429

Parameter	Units	50370594012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1400	1290	8	10	

SAMPLE DUPLICATE: 3593430

Parameter	Units	50370647006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	408	406	0	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch: 785719

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648002, 50370648004

METHOD BLANK: 3594532

Matrix: Water

Associated Lab Samples: 50370648002, 50370648004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/19/24 10:09	

LABORATORY CONTROL SAMPLE: 3594533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	275	92	80-120	

SAMPLE DUPLICATE: 3594534

Parameter	Units	50370673004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	304	285	6	10	

SAMPLE DUPLICATE: 3594535

Parameter	Units	50370674004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	524	539	3	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch: 786657

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

SAMPLE DUPLICATE: 3598566

Parameter	Units	50371397001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	2	H3

SAMPLE DUPLICATE: 3598567

Parameter	Units	50370647006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch: 785252 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

METHOD BLANK: 3592338 Matrix: Water
 Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/16/24 21:44	

LABORATORY CONTROL SAMPLE: 3592339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592340 3592341

Parameter	Units	50370647006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	102	103	90-110	0	20	

MATRIX SPIKE SAMPLE: 3592342

Parameter	Units	50370683001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	1	3.0	99	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch:	786243	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

METHOD BLANK: 3596772 Matrix: Water
 Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/24/24 14:02	

LABORATORY CONTROL SAMPLE: 3596773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596774 3596775

Parameter	Units	50370280006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	ND	10	10	9.9	9.7	93	90	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596776 3596777

Parameter	Units	50370281002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	ND	10	10	10.5	9.9	95	89	80-120	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596778 3596779

Parameter	Units	50370647006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	1.3	10	10	10.3	10.3	90	91	80-120	0	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Sample: MW-20S **Lab ID: 50370648001** Collected: 04/15/24 12:34 Received: 04/15/24 17:05 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.739 ± 0.805 (1.31) C:NA T:89%	pCi/L	04/29/24 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.147 ± 0.277 (0.610) C:78% T:87%	pCi/L	04/25/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.886 ± 1.08 (1.92)	pCi/L	04/29/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-201 Lab ID: 50370648002 Collected: 04/15/24 13:40 Received: 04/15/24 17:05 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.02 ± 0.928 (1.47) C:NA T:90%	pCi/L	04/29/24 13:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.396 ± 0.422 (0.882) C:80% T:86%	pCi/L	04/25/24 14:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.42 ± 1.35 (2.35)	pCi/L	04/29/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-20D Lab ID: 50370648003 Collected: 04/15/24 12:10 Received: 04/15/24 17:05 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.389 ± 0.624 (1.08) C:NA T:91%	pCi/L	04/29/24 13:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.735 ± 0.412 (0.742) C:79% T:84%	pCi/L	04/25/24 14:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.12 ± 1.04 (1.82)	pCi/L	04/29/24 15:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Sample: Dup-9 **Lab ID: 50370648004** Collected: 04/15/24 08:00 Received: 04/15/24 17:05 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.236 ± 0.518 (1.11) C:NA T:89%	pCi/L	04/29/24 13:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.455 ± 0.379 (0.756) C:75% T:86%	pCi/L	04/25/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.455 ± 0.897 (1.87)	pCi/L	04/29/24 15:07	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch:	662852	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: 50370648001, 50370648002, 50370648003, 50370648004

METHOD BLANK: 3228435 Matrix: Water

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0418 ± 0.191 (0.388) C:NA T:97%	pCi/L	04/29/24 12:45	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

QC Batch:	662854	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: 50370648001, 50370648002, 50370648003, 50370648004

METHOD BLANK: 3228438 Matrix: Water

Associated Lab Samples: 50370648001, 50370648002, 50370648003, 50370648004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.676 ± 0.416 (0.783) C:89% T:85%	pCi/L	04/25/24 15:58	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370648001	MW-20S	EPA 9056	786245		
50370648002	MW-20I	EPA 9056	786245		
50370648003	MW-20D	EPA 9056	786245		
50370648004	Dup-9	EPA 9056	786245		
50370648001	MW-20S	EPA 3010	785237	EPA 6010	785885
50370648002	MW-20I	EPA 3010	785237	EPA 6010	785885
50370648003	MW-20D	EPA 3010	785237	EPA 6010	785885
50370648004	Dup-9	EPA 3010	785237	EPA 6010	785885
50370648001	MW-20S	EPA 3010	785247	EPA 6010	785892
50370648002	MW-20I	EPA 3010	785247	EPA 6010	785892
50370648003	MW-20D	EPA 3010	785247	EPA 6010	785892
50370648004	Dup-9	EPA 3010	785247	EPA 6010	785892
50370648001	MW-20S	EPA 200.2	785206	EPA 6020	785484
50370648002	MW-20I	EPA 200.2	785206	EPA 6020	785484
50370648003	MW-20D	EPA 200.2	785206	EPA 6020	785484
50370648004	Dup-9	EPA 200.2	785206	EPA 6020	785484
50370648001	MW-20S	EPA 7470	785801	EPA 7470	786508
50370648002	MW-20I	EPA 7470	785801	EPA 7470	786508
50370648003	MW-20D	EPA 7470	785801	EPA 7470	786508
50370648004	Dup-9	EPA 7470	785801	EPA 7470	786508
50370648001	MW-20S	EPA 903.1	662852		
50370648002	MW-20I	EPA 903.1	662852		
50370648003	MW-20D	EPA 903.1	662852		
50370648004	Dup-9	EPA 903.1	662852		
50370648001	MW-20S	EPA 904.0	662854		
50370648002	MW-20I	EPA 904.0	662854		
50370648003	MW-20D	EPA 904.0	662854		
50370648004	Dup-9	EPA 904.0	662854		
50370648001	MW-20S	Total Radium Calculation	665223		
50370648002	MW-20I	Total Radium Calculation	665223		
50370648003	MW-20D	Total Radium Calculation	665223		
50370648004	Dup-9	Total Radium Calculation	665223		
50370648001	MW-20S	SM 2320B	785722		
50370648002	MW-20I	SM 2320B	785722		
50370648003	MW-20D	SM 2320B	785722		
50370648004	Dup-9	SM 2320B	785724		
50370648001	MW-20S	SM 2540C	785500		
50370648002	MW-20I	SM 2540C	785719		
50370648003	MW-20D	SM 2540C	785500		
50370648004	Dup-9	SM 2540C	785719		
50370648001	MW-20S	SM 4500-H+B	786657		
50370648002	MW-20I	SM 4500-H+B	786657		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370648

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370648003	MW-20D	SM 4500-H+B	786657		
50370648004	Dup-9	SM 4500-H+B	786657		
50370648001	MW-20S	EPA 353.2	785252		
50370648002	MW-20I	EPA 353.2	785252		
50370648003	MW-20D	EPA 353.2	785252		
50370648004	Dup-9	EPA 353.2	785252		
50370648001	MW-20S	SM 5310C	786243		
50370648002	MW-20I	SM 5310C	786243		
50370648003	MW-20D	SM 5310C	786243		
50370648004	Dup-9	SM 5310C	786243		

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CHAIN-OF-CUSTODY / Analytical Request Docu

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com

W0#: 50370648



50370648

Section A**Section B****Section C****Required Client Information:****Required Project Information:****Invoice Information:**

Company:	Atlas Indianapolis	
Address:	7988 Centerpoint Drive	
	Suite 100, Indianapolis, IN 46256	
Email:	mark.breting@oneatlas.com	
Phone:	317-313-8306	Fax:
Requested Due Date:		

Report To:	Mark Breting	
Copy To:		
Purchase Order #:		
Project Name:	Eagle Valley April 2024	
Project #:	PIR4	

Attention:	Accounts Payable - Paula Sedam	
Company Name:	Atlas Indianapolis	
Address:		
Pace Quote:		
Pace Project Manager:	will.statz@pacelabs.com	
Pace Profile #:	10498/56	

Regulatory Agency	
State / Location	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see valid codes to left)		COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analyses - Test Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)					
		MATRIX CODE	SAMPLE TYPE				DATE	TIME	DATE	TIME	Unpreserved									Tot. Metals 6010/6020/7470														
											Unpreserved	H2SO4	HNO3	HCl	NaOH		Na2S2O3	Methanol	Other		Diss metals by 6010	TDS by 2540C	DOC by 5310	Alkalinity / pH / Ferrous Fe	Nitrate by 353.2	C, F, SO4 by 9056	Rad 226/228 + SUM to Pitt							
1	MW - 20 S	↓	6	4/15/24	1234		8	3	1	4							X	X	X	X	X	X	X	X	X	X	X				001			
2	MW - 20 I	↓	↓	↓	1340		↓	↓	↓	↓							X	X	X	X	X	X	X	X	X	X	X	X				002		
3	MW - 20 O	↓	↓	↓	1210		↓	↓	↓	↓							X	X	X	X	X	X	X	X	X	X	X	X				003		
4	Dup - 9	↓	6	4/15/24	-		8	3	1	4							X	X	X	Y	X	X	X	X	X	X	X				004			
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	Keegan Lowhead / AHO5	4/15/24	1705	<i>[Signature]</i>	4/15/24	1705	0.9	Y	N	Y
6020 - Be, Co, As, Se, Sb, Ba, Ti (7)										
6010 - B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li (12), 7470										
6010 Dis - Mo										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Keegan Lowhead	SIGNATURE of SAMPLER: <i>[Signature]</i>				
DATE Signed: 4/15/24					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/15/24 18:35 JG

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**
 (Initial/Corrected) 0.8/0.9
4. Cooler Temperature(s): 0.8/0.9
 RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: <u>Nitrate</u>			Circle: <u>HNO3 (<2)</u> , <u>H2SO4 (<2)</u> , NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab			Time: _____ Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):			Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Custody Signatures Present?			Headspace Wisconsin Sulfide?			
Containers Intact?:			Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID			Trip Blank Present?			
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	MeOH (only)	SBS	DI	VIALS									AMBER GLASS							PLASTIC							OTHER				Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black					
					DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit												
					R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit											
																														HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9								
1													1							2	1	2	1	1											WT	✓	✓				
2													↓							↓	↓	↓	↓	↓	↓											↓	↓	↓			
3																																									
4													↓							↓	↓	↓	↓	↓	↓												↓	↓	↓		
5																																									
6																																									
7																																									
8																																									
9																																									
10																																									
11																																									
12																																									

Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unreserved plastic	Miscellaneous	
DG9U	40mL unreserved 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	ZPLC	Ziploc Bag
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit
VG9U	40mL unreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Sodium Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unreserved plastic	GN	General Container
WGKU	8oz unreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can (air sample)
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	OL:	Oil
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unreserved plastic	NAL	Non-aqueous liquid
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50370738

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50370738

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370738001	Field Blank 3	Water	04/16/24 15:35	04/16/24 18:07

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370738001	Field Blank 3	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	ELK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	ZM	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370738001	Field Blank 3					
EPA 903.1	Radium-226	1.39 ± 0.916 (1.23) C:NA T:87%	pCi/L		04/26/24 12:11	
EPA 904.0	Radium-228	0.651 ± 0.376 (0.676) C:80% T:76%	pCi/L		04/24/24 12:14	
Total Radium Calculation	Total Radium	2.04 ± 1.29 (1.91)	pCi/L		04/26/24 13:33	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/25/24 16:28	H3

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

Sample: Field Blank 3 Lab ID: 50370738001 Collected: 04/16/24 15:35 Received: 04/16/24 18:07 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	ND	mg/L	0.25	0.067	1		04/19/24 03:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/19/24 03:47	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		04/19/24 03:47	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:20	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:20	7440-43-9	
Calcium	ND	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:20	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:20	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:20	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:20	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:20	7439-93-2	
Magnesium	ND	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:20	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:20	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:20	7439-98-7	
Potassium	ND	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:20	7440-09-7	
Sodium	ND	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:20	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/22/24 20:22	04/23/24 13:35	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 15:17	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 15:17	7440-38-2	
Barium	ND	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 15:17	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 15:17	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 15:17	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 15:17	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 15:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/21/24 19:55	04/22/24 10:21	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	ND	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

Sample: Field Blank 3		Lab ID: 50370738001		Collected: 04/16/24 15:35	Received: 04/16/24 18:07	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/19/24 11:21		PL
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.1	Std. Units	0.10	0.10	1		04/25/24 16:28		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/17/24 17:45	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/24/24 20:04		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch:	785561	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

METHOD BLANK: 3593613 Matrix: Water

Associated Lab Samples: 50370738001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/18/24 17:55	
Fluoride	mg/L	ND	0.10	0.017	04/18/24 17:55	
Sulfate	mg/L	ND	0.25	0.19	04/18/24 17:55	

LABORATORY CONTROL SAMPLE: 3593614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	95	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3593615 3593616

Parameter	Units	50370722001		3593616		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	38.1	25	25	60.7	60.6	91	90	80-120	0	15		
Fluoride	mg/L	ND	1	1	0.99	1.0	99	101	80-120	2	15		
Sulfate	mg/L	152	50	50	198	197	93	91	80-120	1	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch:	785934	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

METHOD BLANK: 3595714 Matrix: Water

Associated Lab Samples: 50370738001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/22/24 10:13	

LABORATORY CONTROL SAMPLE: 3595715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3595716 3595717

Parameter	Units	3595716		3595717		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370811006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	ND	5	5	5.0	4.9	100	98	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50370738

QC Batch: 785245 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

METHOD BLANK: 3592307 Matrix: Water
 Associated Lab Samples: 50370738001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/19/24 23:56	
Cadmium	ug/L	ND	2.0	0.60	04/19/24 23:56	
Calcium	ug/L	ND	1000	67.7	04/19/24 23:56	
Chromium	ug/L	ND	10.0	0.42	04/19/24 23:56	
Iron	ug/L	ND	100	30.0	04/19/24 23:56	
Lead	ug/L	ND	10.0	2.5	04/19/24 23:56	
Lithium	ug/L	ND	20.0	6.8	04/19/24 23:56	
Magnesium	ug/L	ND	1000	33.6	04/19/24 23:56	
Manganese	ug/L	ND	10.0	1.8	04/19/24 23:56	
Molybdenum	ug/L	ND	10.0	0.78	04/19/24 23:56	
Potassium	ug/L	ND	1000	97.8	04/19/24 23:56	
Sodium	ug/L	ND	1000	54.8	04/19/24 23:56	

LABORATORY CONTROL SAMPLE: 3592308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	951	95	80-120	
Cadmium	ug/L	1000	987	99	80-120	
Calcium	ug/L	10000	9940	99	80-120	
Chromium	ug/L	1000	978	98	80-120	
Iron	ug/L	10000	9850	99	80-120	
Lead	ug/L	1000	962	96	80-120	
Lithium	ug/L	1000	985	98	80-120	
Magnesium	ug/L	10000	9690	97	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	
Potassium	ug/L	10000	9680	97	80-120	
Sodium	ug/L	10000	9630	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592309 3592310

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50370673001	Result	Spike Conc.	Spike Conc.							Result
Boron	ug/L	0.63 mg/L	1000	1000	1610	1610	98	98	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	1000	1000	100	100	75-125	0	20	
Calcium	ug/L	12.7 mg/L	10000	10000	22400	22300	97	96	75-125	0	20	
Chromium	ug/L	ND	1000	1000	980	978	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592309 3592310											
Parameter	Units	50370673001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Iron	ug/L	ND	10000	10000	9920	9890	99	99	75-125	0	20
Lead	ug/L	ND	1000	1000	951	948	95	95	75-125	0	20
Lithium	ug/L	0.15 mg/L	1000	1000	1120	1120	98	98	75-125	0	20
Magnesium	ug/L	5.7 mg/L	10000	10000	15200	15200	95	95	75-125	0	20
Manganese	ug/L	ND	1000	1000	1010	1010	100	100	75-125	0	20
Molybdenum	ug/L	ND	1000	1000	1030	1030	103	103	75-125	0	20
Potassium	ug/L	25.2 mg/L	10000	10000	34300	34300	91	91	75-125	0	20
Sodium	ug/L	110 mg/L	10000	10000	116000	116000	65	58	75-125	1	20 P6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch:	785950	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

METHOD BLANK: 3595776 Matrix: Water

Associated Lab Samples: 50370738001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/23/24 13:32	

LABORATORY CONTROL SAMPLE: 3595777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	932	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3595778 3595779

Parameter	Units	50371093008		3595779		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Molybdenum, Dissolved	ug/L	<10.0	1000	957	1000	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch:	785664	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

METHOD BLANK: 3594106 Matrix: Water

Associated Lab Samples: 50370738001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.27	04/22/24 14:16	
Arsenic	ug/L	ND	1.0	0.11	04/22/24 14:16	
Barium	ug/L	ND	1.0	0.090	04/22/24 14:16	
Beryllium	ug/L	ND	0.20	0.030	04/22/24 14:16	
Cobalt	ug/L	ND	1.0	0.16	04/22/24 14:16	
Selenium	ug/L	ND	1.0	0.22	04/22/24 14:16	
Thallium	ug/L	ND	1.0	0.043	04/22/24 14:16	

LABORATORY CONTROL SAMPLE: 3594107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.7	104	80-120	
Arsenic	ug/L	40	40.2	100	80-120	
Barium	ug/L	40	39.5	99	80-120	
Beryllium	ug/L	40	38.6	97	80-120	
Cobalt	ug/L	40	42.0	105	80-120	
Selenium	ug/L	40	39.9	100	80-120	
Thallium	ug/L	40	41.4	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3594108 3594109

Parameter	Units	MS 50370794001		MSD 3594109		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	43.2	43.3	107	108	75-125	0	20
Arsenic	ug/L	ND	40	40	39.3	39.7	97	98	75-125	1	20
Barium	ug/L	15.5	40	40	55.2	56.5	99	102	75-125	2	20
Beryllium	ug/L	ND	40	40	38.7	38.4	96	96	75-125	1	20
Cobalt	ug/L	27.5	40	40	68.3	68.1	102	102	75-125	0	20
Selenium	ug/L	1.9	40	40	40.7	41.5	97	99	75-125	2	20
Thallium	ug/L	0.35	40	40	43.7	43.7	108	108	75-125	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch: 786114

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

METHOD BLANK: 3596291

Matrix: Water

Associated Lab Samples: 50370738001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/22/24 21:13	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/22/24 21:13	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/22/24 21:13	

LABORATORY CONTROL SAMPLE: 3596292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	90-110	

SAMPLE DUPLICATE: 3596293

Parameter	Units	50371106001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	229	232	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	229	232	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3596294

Parameter	Units	50370739001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	338	343	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	338	343	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch:	785721	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

METHOD BLANK: 3594540 Matrix: Water

Associated Lab Samples: 50370738001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/19/24 11:20	

LABORATORY CONTROL SAMPLE: 3594541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	269	90	80-120	

SAMPLE DUPLICATE: 3594542

Parameter	Units	50370962004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	648	648	0	10	

SAMPLE DUPLICATE: 3594543

Parameter	Units	50370792001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	7820	8360	7	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch: 786721

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

SAMPLE DUPLICATE: 3598832

Parameter	Units	50370689002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.1	1	2	H3

SAMPLE DUPLICATE: 3598833

Parameter	Units	50370811007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.7	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch:	785437	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

METHOD BLANK: 3593026 Matrix: Water

Associated Lab Samples: 50370738001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/17/24 17:18	

LABORATORY CONTROL SAMPLE: 3593027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3593028 3593029

Parameter	Units	50370805005		50370805006		50370805005		50370805006		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Nitrogen, Nitrate	mg/L	ND	ND	1	1	1.0	1.1	104	105	90-110	0	20	

MATRIX SPIKE SAMPLE: 3593030

Parameter	Units	50370805006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.36	1	1.4	107	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2
 Pace Project No.: 50370738

QC Batch: 786243	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370738001

METHOD BLANK: 3596772 Matrix: Water
 Associated Lab Samples: 50370738001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/24/24 14:02	

LABORATORY CONTROL SAMPLE: 3596773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596774 3596775

Parameter	Units	50370280006		50370280007		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Dissolved Organic Carbon	mg/L	ND	10	10	9.9	9.7	93	90	80-120	3	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596776 3596777

Parameter	Units	50370281002		50370281003		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Dissolved Organic Carbon	mg/L	ND	10	10	10.5	9.9	95	89	80-120	6	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596778 3596779

Parameter	Units	50370647006		50370647007		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Dissolved Organic Carbon	mg/L	1.3	10	10	10.3	10.3	90	91	80-120	0	20		

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Field Blank 3 Lab ID: 50370738001 Collected: 04/16/24 15:35 Received: 04/16/24 18:07 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.39 ± 0.916 (1.23) C:NA T:87%	pCi/L	04/26/24 12:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.651 ± 0.376 (0.676) C:80% T:76%	pCi/L	04/24/24 12:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.04 ± 1.29 (1.91)	pCi/L	04/26/24 13:33	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch: 663216

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: 50370738001

METHOD BLANK: 3230075

Matrix: Water

Associated Lab Samples: 50370738001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.714 ± 0.400 (0.720) C:79% T:77%	pCi/L	04/24/24 12:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

QC Batch: 663214

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: 50370738001

METHOD BLANK: 3230073

Matrix: Water

Associated Lab Samples: 50370738001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.147 ± 0.455 (0.882) C:NA T:85%	pCi/L	04/26/24 11:57	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50370738

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370738001	Field Blank 3	EPA 9056	785561		
50370738001	Field Blank 3	EPA 3010	785245	EPA 6010	785890
50370738001	Field Blank 3	EPA 3010	785950	EPA 6010	786262
50370738001	Field Blank 3	EPA 200.2	785664	EPA 6020	785886
50370738001	Field Blank 3	EPA 7470	785934	EPA 7470	785969
50370738001	Field Blank 3	EPA 903.1	663214		
50370738001	Field Blank 3	EPA 904.0	663216		
50370738001	Field Blank 3	Total Radium Calculation	664885		
50370738001	Field Blank 3	SM 2320B	786114		
50370738001	Field Blank 3	SM 2540C	785721		
50370738001	Field Blank 3	SM 4500-H+B	786721		
50370738001	Field Blank 3	EPA 353.2	785437		
50370738001	Field Blank 3	SM 5310C	786243		

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CHAIN-OF-CUSTODY

The Chain-of-Custody Form

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the terms and conditions of this form.

WO#: 50370738



50370738

Document deleted accurately.
[https://www.pace-labs.com/files/pas-standard-terms.pdf](#)

Section A Required Client Information:		Section B Required Project Information:		Regulatory Agency	
Company: Atlas Indianapolis	Report To: Mark Breting	Attention: Accounts Payable - Paula Sedam			
Address: 7988 Centerpoint Drive Suite 100, Indianapolis, IN 46256	Copy To:	Company Name: Atlas Indianapolis			
Email: mark.breting@oneatlas.com	Purchase Order #:	Address:			
Phone: 317-313-8306	Fax:	Pace Quote:			
Requested Due Date:	Project Name: Eagle Valley April 2024	Pace Project Manager: will.statz@pacelabs.com			State / Location
	Project #: PIA2	Pace Profile #: 10498/56			IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	CODE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives									Analyses Test	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)						
				START DATE	START TIME	END DATE	END TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Tot. Metals 6010/6020/7470		Diss metals by 6010	TDS by 2540C	DOC by 5310	Alkalinity / pH / Ferrous Fe	Nitrate by 353.2	C. F. SO4 by 9056	Rad 226/228 + SUM to Pitt											
1	Field Blank 3	W	G	4/16/24	1535			8	3	1	4								X	X	X	X	X	X												
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	Keegan Lowhead	4/16/24		R. Clemens	4/16/24	18:07	6.5	y	n	y
6020 - Be, Co, As, Se, Sb, Ba, Tl (7)										
6010 - B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li (12), 7470										
6010 Dis - Mo										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	Signature of SAMPLER:					
Keegan Lowhead	Keegan Lowhead					
SIGNATURE of SAMPLER:	DATE Signed:					
Keegan Lowhead	4/16/24					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 4-16-24 18:11

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H
4. Cooler Temperature(s): 0.5/0.5
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO₃</u>	<input checked="" type="checkbox"/>		Circle: <u>HNO3 (<2)</u> <u>H2SO4 (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>18:20</u>		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370739

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370739001	MW-22S	Water	04/16/24 11:46	04/16/24 17:38
50370739002	MW-22I	Water	04/16/24 13:32	04/16/24 17:38
50370739003	MW-22D	Water	04/16/24 14:40	04/16/24 17:38
50370739004	MW-23D	Water	04/16/24 11:07	04/16/24 17:38
50370739005	Field Blank 4	Water	04/16/24 14:40	04/16/24 17:38

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370739001	MW-22S	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50370739002	MW-22I	EPA 9056	KBB
EPA 6010	JPK			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	CLM			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50370739003	MW-22D			EPA 9056	KBB
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370739004	MW-23D	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		50370739005	Field Blank 4	EPA 353.2	DAW
SM 5310C	YAM			1	PASI-I
EPA 9056	KBB			3	PASI-I
EPA 6010	JPK			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	EAE			1	PASI-I
EPA 903.1	CLM			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM	1	PASI-I		

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370739

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370739001	MW-22S					
EPA 9056	Chloride	67.0	mg/L	2.5	04/25/24 22:28	
EPA 9056	Fluoride	0.14	mg/L	0.10	04/25/24 22:11	
EPA 9056	Sulfate	47.6	mg/L	2.5	04/25/24 22:28	
EPA 6010	Calcium	117000	ug/L	1000	04/20/24 00:21	
EPA 6010	Magnesium	24100	ug/L	1000	04/20/24 00:21	
EPA 6010	Manganese	564	ug/L	10.0	04/20/24 00:21	
EPA 6010	Potassium	1650	ug/L	1000	04/20/24 00:21	
EPA 6010	Sodium	35200	ug/L	1000	04/20/24 00:21	
EPA 6020	Barium	34.0	ug/L	1.0	04/22/24 15:24	
EPA 6020	Selenium	5.3	ug/L	1.0	04/22/24 15:24	
EPA 903.1	Radium-226	0.950 ± 0.820 (1.22) C:NA T:87%	pCi/L		04/26/24 12:11	
EPA 904.0	Radium-228	0.695 ± 0.375 (0.675) C:83% T:85%	pCi/L		04/24/24 12:16	
Total Radium Calculation	Total Radium	1.65 ± 1.20 (1.90)	pCi/L		04/26/24 13:33	
SM 2320B	Alkalinity, Total as CaCO3	338	mg/L	10.0	04/22/24 21:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	338	mg/L	10.0	04/22/24 21:13	
SM 2540C	Total Dissolved Solids	469	mg/L	10.0	04/19/24 11:22	
SM 4500-H+B	pH at 25 Degrees C	5.9	Std. Units	0.10	04/25/24 16:29	H3
EPA 353.2	Nitrogen, Nitrate	1.2	mg/L	0.10	04/16/24 23:02	
SM 5310C	Dissolved Organic Carbon	3.0	mg/L	1.0	04/25/24 15:27	
50370739002	MW-22I					
EPA 9056	Chloride	13.4	mg/L	0.25	04/25/24 22:46	
EPA 9056	Sulfate	27.0	mg/L	0.25	04/25/24 22:46	
EPA 6010	Calcium	87600	ug/L	1000	04/20/24 00:23	
EPA 6010	Iron	110	ug/L	100	04/20/24 00:23	
EPA 6010	Magnesium	25200	ug/L	1000	04/20/24 00:23	
EPA 6010	Manganese	287	ug/L	10.0	04/20/24 00:23	
EPA 6010	Potassium	1410	ug/L	1000	04/20/24 00:23	
EPA 6010	Sodium	6160	ug/L	1000	04/20/24 00:23	
EPA 6020	Barium	62.2	ug/L	1.0	04/22/24 15:28	
EPA 6020	Selenium	3.9	ug/L	1.0	04/22/24 15:28	
EPA 903.1	Radium-226	0.263 ± 0.570 (1.05) C:NA T:88%	pCi/L		04/26/24 12:11	
EPA 904.0	Radium-228	0.695 ± 0.380 (0.682) C:85% T:79%	pCi/L		04/24/24 12:16	
Total Radium Calculation	Total Radium	0.958 ± 0.950 (1.73)	pCi/L		04/26/24 13:33	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370739002	MW-22I					
SM 2320B	Alkalinity, Total as CaCO3	281	mg/L	10.0	04/22/24 21:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	281	mg/L	10.0	04/22/24 21:13	
SM 2540C	Total Dissolved Solids	324	mg/L	10.0	04/19/24 11:22	
SM 4500-H+B	pH at 25 Degrees C	6.3	Std. Units	0.10	04/25/24 16:30	H3
EPA 353.2	Nitrogen, Nitrate	5.6	mg/L	0.20	04/16/24 23:35	
50370739003	MW-22D					
EPA 9056	Chloride	20.5	mg/L	0.25	04/25/24 23:22	
EPA 9056	Sulfate	42.0	mg/L	0.25	04/25/24 23:22	
EPA 6010	Calcium	75200	ug/L	1000	04/20/24 00:24	
EPA 6010	Iron	1650	ug/L	100	04/20/24 00:24	
EPA 6010	Magnesium	23100	ug/L	1000	04/20/24 00:24	
EPA 6010	Manganese	306	ug/L	10.0	04/20/24 00:24	
EPA 6010	Potassium	1740	ug/L	1000	04/20/24 00:24	
EPA 6010	Sodium	9830	ug/L	1000	04/20/24 00:24	
EPA 6020	Arsenic	4.8	ug/L	1.0	04/22/24 15:38	
EPA 6020	Barium	96.9	ug/L	1.0	04/22/24 15:38	
EPA 903.1	Radium-226	0.905 ± 0.951 (1.51) C:NA T:89%	pCi/L		04/26/24 12:11	
EPA 904.0	Radium-228	0.848 ± 0.440 (0.785) C:81% T:80%	pCi/L		04/24/24 12:16	
Total Radium Calculation	Total Radium	1.75 ± 1.39 (2.30)	pCi/L		04/26/24 13:33	
SM 2320B	Alkalinity, Total as CaCO3	244	mg/L	10.0	04/22/24 21:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	04/22/24 21:13	
SM 2540C	Total Dissolved Solids	287	mg/L	10.0	04/19/24 11:22	
SM 4500-H+B	pH at 25 Degrees C	6.4	Std. Units	0.10	04/25/24 16:30	H3
50370739004	MW-23D					
EPA 9056	Chloride	20.8	mg/L	2.5	04/26/24 02:02	
EPA 9056	Sulfate	35.2	mg/L	0.25	04/26/24 01:44	
EPA 6010	Calcium	71600	ug/L	1000	04/20/24 00:31	
EPA 6010	Iron	394	ug/L	100	04/20/24 00:31	
EPA 6010	Magnesium	21400	ug/L	1000	04/20/24 00:31	
EPA 6010	Manganese	208	ug/L	10.0	04/20/24 00:31	
EPA 6010	Potassium	1540	ug/L	1000	04/20/24 00:31	
EPA 6010	Sodium	14100	ug/L	1000	04/20/24 00:31	
EPA 6020	Barium	52.5	ug/L	1.0	04/22/24 15:41	
EPA 6020	Selenium	7.4	ug/L	1.0	04/22/24 15:41	
EPA 903.1	Radium-226	0.000 ± 0.805 (1.57) C:NA T:93%	pCi/L		04/26/24 12:11	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370739004	MW-23D					
EPA 904.0	Radium-228	0.730 ± 0.348 (0.575) C:81% T:86%	pCi/L		04/24/24 12:14	
Total Radium Calculation	Total Radium	0.730 ± 1.15 (2.15)	pCi/L		04/26/24 13:33	
SM 2320B	Alkalinity, Total as CaCO3	236	mg/L	10.0	04/22/24 21:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	217	mg/L	10.0	04/22/24 21:13	
SM 2320B	Alkalinity,Carbonate (CaCO3)	18.8	mg/L	10.0	04/22/24 21:13	
SM 2540C	Total Dissolved Solids	294	mg/L	10.0	04/19/24 11:22	
SM 4500-H+B	pH at 25 Degrees C	6.6	Std. Units	0.10	04/25/24 16:30	H3
EPA 353.2	Nitrogen, Nitrate	0.84	mg/L	0.10	04/16/24 23:00	
50370739005	Field Blank 4					
EPA 903.1	Radium-226	-0.187 ± 0.861 (1.76) C:NA T:89%	pCi/L		04/26/24 12:11	
EPA 904.0	Radium-228	0.638 ± 0.315 (0.524) C:83% T:89%	pCi/L		04/24/24 12:14	
Total Radium Calculation	Total Radium	0.638 ± 1.18 (2.28)	pCi/L		04/26/24 13:33	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/25/24 16:31	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: MW-22S **Lab ID: 50370739001** Collected: 04/16/24 11:46 Received: 04/16/24 17:38 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	67.0	mg/L	2.5	0.67	10		04/25/24 22:28	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.017	1		04/25/24 22:11	16984-48-8	
Sulfate	47.6	mg/L	2.5	1.9	10		04/25/24 22:28	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:21	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:21	7440-43-9	
Calcium	117000	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:21	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:21	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:21	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:21	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:21	7439-93-2	
Magnesium	24100	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:21	7439-95-4	
Manganese	564	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:21	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:21	7439-98-7	
Potassium	1650	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:21	7440-09-7	
Sodium	35200	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:21	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/21/24 22:18	04/23/24 02:10	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 15:24	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 15:24	7440-38-2	
Barium	34.0	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 15:24	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 15:24	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 15:24	7440-48-4	
Selenium	5.3	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 15:24	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 15:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/18/24 11:12	04/18/24 17:16	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	338	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	338	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: MW-22S Lab ID: 50370739001 Collected: 04/16/24 11:46 Received: 04/16/24 17:38 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	469	mg/L	10.0	10.0	1		04/19/24 11:22		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	5.9	Std. Units	0.10	0.10	1		04/25/24 16:29		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	1.2	mg/L	0.10	0.013	1		04/16/24 23:02	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	3.0	mg/L	1.0	0.25	1		04/25/24 15:27		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: MW-21 **Lab ID: 50370739002** Collected: 04/16/24 13:32 Received: 04/16/24 17:38 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	13.4	mg/L	0.25	0.067	1		04/25/24 22:46	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/25/24 22:46	16984-48-8	
Sulfate	27.0	mg/L	0.25	0.19	1		04/25/24 22:46	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:23	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:23	7440-43-9	
Calcium	87600	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:23	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:23	7440-47-3	
Iron	110	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:23	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:23	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:23	7439-93-2	
Magnesium	25200	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:23	7439-95-4	
Manganese	287	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:23	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:23	7439-98-7	
Potassium	1410	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:23	7440-09-7	
Sodium	6160	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:23	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/21/24 22:18	04/23/24 02:11	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 15:28	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 15:28	7440-38-2	
Barium	62.2	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 15:28	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 15:28	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 15:28	7440-48-4	
Selenium	3.9	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 15:28	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 15:28	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/18/24 11:12	04/18/24 17:24	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	281	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	281	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: MW-22I		Lab ID: 50370739002		Collected: 04/16/24 13:32	Received: 04/16/24 17:38	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	324	mg/L	10.0	10.0	1		04/19/24 11:22		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.3	Std. Units	0.10	0.10	1		04/25/24 16:30		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	5.6	mg/L	0.20	0.026	2		04/16/24 23:35	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/25/24 15:50		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: MW-22D Lab ID: 50370739003 Collected: 04/16/24 14:40 Received: 04/16/24 17:38 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	20.5	mg/L	0.25	0.067	1		04/25/24 23:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/25/24 23:22	16984-48-8	
Sulfate	42.0	mg/L	0.25	0.19	1		04/25/24 23:22	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:24	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:24	7440-43-9	
Calcium	75200	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:24	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:24	7440-47-3	
Iron	1650	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:24	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:24	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:24	7439-93-2	
Magnesium	23100	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:24	7439-95-4	
Manganese	306	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:24	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:24	7439-98-7	
Potassium	1740	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:24	7440-09-7	
Sodium	9830	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:24	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/21/24 22:18	04/23/24 02:13	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 15:38	7440-36-0	
Arsenic	4.8	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 15:38	7440-38-2	
Barium	96.9	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 15:38	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 15:38	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 15:38	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 15:38	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 15:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/18/24 11:12	04/18/24 17:26	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	244	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	244	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: MW-22D		Lab ID: 50370739003		Collected: 04/16/24 14:40	Received: 04/16/24 17:38	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	287	mg/L	10.0	10.0	1		04/19/24 11:22		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.4	Std. Units	0.10	0.10	1		04/25/24 16:30		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 23:15	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/25/24 15:59		

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**ANALYTICAL RESULTS**

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: MW-23D **Lab ID: 50370739004** Collected: 04/16/24 11:07 Received: 04/16/24 17:38 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	20.8	mg/L	2.5	0.67	10		04/26/24 02:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/26/24 01:44	16984-48-8	
Sulfate	35.2	mg/L	0.25	0.19	1		04/26/24 01:44	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:31	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:31	7440-43-9	
Calcium	71600	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:31	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:31	7440-47-3	
Iron	394	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:31	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:31	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:31	7439-93-2	
Magnesium	21400	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:31	7439-95-4	
Manganese	208	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:31	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:31	7439-98-7	
Potassium	1540	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:31	7440-09-7	
Sodium	14100	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:31	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/21/24 22:18	04/23/24 02:14	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 15:41	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 15:41	7440-38-2	
Barium	52.5	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 15:41	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 15:41	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 15:41	7440-48-4	
Selenium	7.4	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 15:41	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 15:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/18/24 11:12	04/18/24 17:29	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	236	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	217	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	18.8	mg/L	10.0	10.0	1		04/22/24 21:13		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: MW-23D Lab ID: 50370739004 Collected: 04/16/24 11:07 Received: 04/16/24 17:38 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	294	mg/L	10.0	10.0	1		04/19/24 11:22		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.6	Std. Units	0.10	0.10	1		04/25/24 16:30		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	0.84	mg/L	0.10	0.013	1		04/16/24 23:00	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/25/24 16:09		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: Field Blank 4 **Lab ID: 50370739005** Collected: 04/16/24 14:40 Received: 04/16/24 17:38 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	ND	mg/L	0.25	0.067	1		04/26/24 02:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/26/24 02:19	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		04/26/24 02:19	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:32	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:32	7440-43-9	
Calcium	ND	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:32	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:32	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:32	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:32	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:32	7439-93-2	
Magnesium	ND	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:32	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:32	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:32	7439-98-7	
Potassium	ND	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:32	7440-09-7	
Sodium	ND	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:32	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/21/24 22:18	04/23/24 02:15	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 15:45	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 15:45	7440-38-2	
Barium	ND	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 15:45	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 15:45	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 15:45	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 15:45	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 15:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/18/24 11:12	04/18/24 17:31	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	ND	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: Field Blank 4		Lab ID: 50370739005		Collected: 04/16/24 14:40	Received: 04/16/24 17:38	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/19/24 11:23		PL
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.10	1		04/25/24 16:31		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 23:17	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/25/24 16:19		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch:	786256	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

METHOD BLANK: 3596843 Matrix: Water
 Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/25/24 18:20	
Fluoride	mg/L	ND	0.10	0.017	04/25/24 18:20	
Sulfate	mg/L	ND	0.25	0.19	04/25/24 18:20	

LABORATORY CONTROL SAMPLE: 3596844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	95	80-120	
Fluoride	mg/L	1	0.99	99	80-120	
Sulfate	mg/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596845 3596846

Parameter	Units	50370739002		3596845		3596846		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	13.4	2.5	2.5	15.9	15.9	101	99	80-120	0	15		
Fluoride	mg/L	ND	1	1	1.0	1.0	96	97	80-120	0	15		
Sulfate	mg/L	27.0	5	5	31.4	31.5	89	90	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch:	785473	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370739001, 50370739002, 50370739003, 50370739004, 50370739005		

METHOD BLANK: 3593196 Matrix: Water
 Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/18/24 16:42	

LABORATORY CONTROL SAMPLE: 3593197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3593198 3593199

Parameter	Units	50370739001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.0	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50370739

QC Batch: 785245 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

METHOD BLANK: 3592307 Matrix: Water
Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/19/24 23:56	
Cadmium	ug/L	ND	2.0	0.60	04/19/24 23:56	
Calcium	ug/L	ND	1000	67.7	04/19/24 23:56	
Chromium	ug/L	ND	10.0	0.42	04/19/24 23:56	
Iron	ug/L	ND	100	30.0	04/19/24 23:56	
Lead	ug/L	ND	10.0	2.5	04/19/24 23:56	
Lithium	ug/L	ND	20.0	6.8	04/19/24 23:56	
Magnesium	ug/L	ND	1000	33.6	04/19/24 23:56	
Manganese	ug/L	ND	10.0	1.8	04/19/24 23:56	
Molybdenum	ug/L	ND	10.0	0.78	04/19/24 23:56	
Potassium	ug/L	ND	1000	97.8	04/19/24 23:56	
Sodium	ug/L	ND	1000	54.8	04/19/24 23:56	

LABORATORY CONTROL SAMPLE: 3592308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	951	95	80-120	
Cadmium	ug/L	1000	987	99	80-120	
Calcium	ug/L	10000	9940	99	80-120	
Chromium	ug/L	1000	978	98	80-120	
Iron	ug/L	10000	9850	99	80-120	
Lead	ug/L	1000	962	96	80-120	
Lithium	ug/L	1000	985	98	80-120	
Magnesium	ug/L	10000	9690	97	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	
Potassium	ug/L	10000	9680	97	80-120	
Sodium	ug/L	10000	9630	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592309 3592310

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50370673001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Boron	ug/L	0.63 mg/L	1000	1000	1610	1610	98	98	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	1000	1000	100	100	75-125	0	20	
Calcium	ug/L	12.7 mg/L	10000	10000	22400	22300	97	96	75-125	0	20	
Chromium	ug/L	ND	1000	1000	980	978	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592309 3592310											
Parameter	Units	50370673001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Iron	ug/L	ND	10000	10000	9920	9890	99	99	75-125	0	20
Lead	ug/L	ND	1000	1000	951	948	95	95	75-125	0	20
Lithium	ug/L	0.15 mg/L	1000	1000	1120	1120	98	98	75-125	0	20
Magnesium	ug/L	5.7 mg/L	10000	10000	15200	15200	95	95	75-125	0	20
Manganese	ug/L	ND	1000	1000	1010	1010	100	100	75-125	0	20
Molybdenum	ug/L	ND	1000	1000	1030	1030	103	103	75-125	0	20
Potassium	ug/L	25.2 mg/L	10000	10000	34300	34300	91	91	75-125	0	20
Sodium	ug/L	110 mg/L	10000	10000	116000	116000	65	58	75-125	1	20 P6

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch:	785248	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

METHOD BLANK: 3592334 Matrix: Water
 Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/23/24 01:33	

LABORATORY CONTROL SAMPLE: 3592335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	950	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592336 3592337

Parameter	Units	3592336		3592337		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370290002	MS Spike Conc.	MSD Spike Conc.	MS Result						
Molybdenum, Dissolved	ug/L	ND	1000	1000	958	950	96	95	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch:	785664	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370739001, 50370739002, 50370739003, 50370739004, 50370739005		

METHOD BLANK: 3594106 Matrix: Water
 Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.27	04/22/24 14:16	
Arsenic	ug/L	ND	1.0	0.11	04/22/24 14:16	
Barium	ug/L	ND	1.0	0.090	04/22/24 14:16	
Beryllium	ug/L	ND	0.20	0.030	04/22/24 14:16	
Cobalt	ug/L	ND	1.0	0.16	04/22/24 14:16	
Selenium	ug/L	ND	1.0	0.22	04/22/24 14:16	
Thallium	ug/L	ND	1.0	0.043	04/22/24 14:16	

LABORATORY CONTROL SAMPLE: 3594107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.7	104	80-120	
Arsenic	ug/L	40	40.2	100	80-120	
Barium	ug/L	40	39.5	99	80-120	
Beryllium	ug/L	40	38.6	97	80-120	
Cobalt	ug/L	40	42.0	105	80-120	
Selenium	ug/L	40	39.9	100	80-120	
Thallium	ug/L	40	41.4	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3594108 3594109

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370794001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	43.2	43.3	107	108	75-125	0	20
Arsenic	ug/L	ND	40	40	39.3	39.7	97	98	75-125	1	20
Barium	ug/L	15.5	40	40	55.2	56.5	99	102	75-125	2	20
Beryllium	ug/L	ND	40	40	38.7	38.4	96	96	75-125	1	20
Cobalt	ug/L	27.5	40	40	68.3	68.1	102	102	75-125	0	20
Selenium	ug/L	1.9	40	40	40.7	41.5	97	99	75-125	2	20
Thallium	ug/L	0.35	40	40	43.7	43.7	108	108	75-125	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch: 786114

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

METHOD BLANK: 3596291

Matrix: Water

Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/22/24 21:13	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/22/24 21:13	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/22/24 21:13	

LABORATORY CONTROL SAMPLE: 3596292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	90-110	

SAMPLE DUPLICATE: 3596293

Parameter	Units	50371106001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	229	232	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	229	232	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3596294

Parameter	Units	50370739001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	338	343	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	338	343	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch:	785721	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

METHOD BLANK: 3594540 Matrix: Water

Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/19/24 11:20	

LABORATORY CONTROL SAMPLE: 3594541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	269	90	80-120	

SAMPLE DUPLICATE: 3594542

Parameter	Units	50370962004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	648	648	0	10	

SAMPLE DUPLICATE: 3594543

Parameter	Units	50370792001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	7820	8360	7	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch:	786721	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

SAMPLE DUPLICATE: 3598832

Parameter	Units	50370689002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.1	1	2	H3

SAMPLE DUPLICATE: 3598833

Parameter	Units	50370811007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.7	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch: 785253 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

METHOD BLANK: 3592343 Matrix: Water
 Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/16/24 22:38	

LABORATORY CONTROL SAMPLE: 3592344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592345 3592346

Parameter	Units	50370673007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.76	1	1	1.8	1.8	105	106	90-110	1	20	

MATRIX SPIKE SAMPLE: 3592347

Parameter	Units	50370739001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.2	1	2.2	103	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch:	786244	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370739001, 50370739002, 50370739003, 50370739004, 50370739005		

METHOD BLANK: 3596782 Matrix: Water
 Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/24/24 20:13	

LABORATORY CONTROL SAMPLE: 3596783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596784 3596785

Parameter	Units	50370854008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	4.3	10	10	12.7	13.3	84	91	80-120	5	20	

MATRIX SPIKE SAMPLE: 3596787

Parameter	Units	50370739001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	3.0	10	12.3	93	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.950 ± 0.820 (1.22) C:NA T:87%	pCi/L	04/26/24 12:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.695 ± 0.375 (0.675) C:83% T:85%	pCi/L	04/24/24 12:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.65 ± 1.20 (1.90)	pCi/L	04/26/24 13:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Sample: MW-22I **Lab ID: 50370739002** Collected: 04/16/24 13:32 Received: 04/16/24 17:38 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.263 ± 0.570 (1.05) C:NA T:88%	pCi/L	04/26/24 12:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.695 ± 0.380 (0.682) C:85% T:79%	pCi/L	04/24/24 12:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.958 ± 0.950 (1.73)	pCi/L	04/26/24 13:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.905 ± 0.951 (1.51) C:NA T:89%	pCi/L	04/26/24 12:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.848 ± 0.440 (0.785) C:81% T:80%	pCi/L	04/24/24 12:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.75 ± 1.39 (2.30)	pCi/L	04/26/24 13:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.805 (1.57) C:NA T:93%	pCi/L	04/26/24 12:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.730 ± 0.348 (0.575) C:81% T:86%	pCi/L	04/24/24 12:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.730 ± 1.15 (2.15)	pCi/L	04/26/24 13:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Field Blank 4 Lab ID: 50370739005 Collected: 04/16/24 14:40 Received: 04/16/24 17:38 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.187 ± 0.861 (1.76) C:NA T:89%	pCi/L	04/26/24 12:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.638 ± 0.315 (0.524) C:83% T:89%	pCi/L	04/24/24 12:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.638 ± 1.18 (2.28)	pCi/L	04/26/24 13:33	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch: 663216

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: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

METHOD BLANK: 3230075

Matrix: Water

Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.714 ± 0.400 (0.720) C:79% T:77%	pCi/L	04/24/24 12:16	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

QC Batch: 663214

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: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

METHOD BLANK: 3230073

Matrix: Water

Associated Lab Samples: 50370739001, 50370739002, 50370739003, 50370739004, 50370739005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.147 ± 0.455 (0.882) C:NA T:85%	pCi/L	04/26/24 11:57	

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

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QUALIFIERS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370739001	MW-22S	EPA 9056	786256		
50370739002	MW-22I	EPA 9056	786256		
50370739003	MW-22D	EPA 9056	786256		
50370739004	MW-23D	EPA 9056	786256		
50370739005	Field Blank 4	EPA 9056	786256		
50370739001	MW-22S	EPA 3010	785245	EPA 6010	785890
50370739002	MW-22I	EPA 3010	785245	EPA 6010	785890
50370739003	MW-22D	EPA 3010	785245	EPA 6010	785890
50370739004	MW-23D	EPA 3010	785245	EPA 6010	785890
50370739005	Field Blank 4	EPA 3010	785245	EPA 6010	785890
50370739001	MW-22S	EPA 3010	785248	EPA 6010	786145
50370739002	MW-22I	EPA 3010	785248	EPA 6010	786145
50370739003	MW-22D	EPA 3010	785248	EPA 6010	786145
50370739004	MW-23D	EPA 3010	785248	EPA 6010	786145
50370739005	Field Blank 4	EPA 3010	785248	EPA 6010	786145
50370739001	MW-22S	EPA 200.2	785664	EPA 6020	785886
50370739002	MW-22I	EPA 200.2	785664	EPA 6020	785886
50370739003	MW-22D	EPA 200.2	785664	EPA 6020	785886
50370739004	MW-23D	EPA 200.2	785664	EPA 6020	785886
50370739005	Field Blank 4	EPA 200.2	785664	EPA 6020	785886
50370739001	MW-22S	EPA 7470	785473	EPA 7470	785648
50370739002	MW-22I	EPA 7470	785473	EPA 7470	785648
50370739003	MW-22D	EPA 7470	785473	EPA 7470	785648
50370739004	MW-23D	EPA 7470	785473	EPA 7470	785648
50370739005	Field Blank 4	EPA 7470	785473	EPA 7470	785648
50370739001	MW-22S	EPA 903.1	663214		
50370739002	MW-22I	EPA 903.1	663214		
50370739003	MW-22D	EPA 903.1	663214		
50370739004	MW-23D	EPA 903.1	663214		
50370739005	Field Blank 4	EPA 903.1	663214		
50370739001	MW-22S	EPA 904.0	663216		
50370739002	MW-22I	EPA 904.0	663216		
50370739003	MW-22D	EPA 904.0	663216		
50370739004	MW-23D	EPA 904.0	663216		
50370739005	Field Blank 4	EPA 904.0	663216		
50370739001	MW-22S	Total Radium Calculation	664885		
50370739002	MW-22I	Total Radium Calculation	664885		
50370739003	MW-22D	Total Radium Calculation	664885		
50370739004	MW-23D	Total Radium Calculation	664885		
50370739005	Field Blank 4	Total Radium Calculation	664885		
50370739001	MW-22S	SM 2320B	786114		
50370739002	MW-22I	SM 2320B	786114		
50370739003	MW-22D	SM 2320B	786114		
50370739004	MW-23D	SM 2320B	786114		
50370739005	Field Blank 4	SM 2320B	786114		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50370739

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370739001	MW-22S	SM 2540C	785721		
50370739002	MW-22I	SM 2540C	785721		
50370739003	MW-22D	SM 2540C	785721		
50370739004	MW-23D	SM 2540C	785721		
50370739005	Field Blank 4	SM 2540C	785721		
50370739001	MW-22S	SM 4500-H+B	786721		
50370739002	MW-22I	SM 4500-H+B	786721		
50370739003	MW-22D	SM 4500-H+B	786721		
50370739004	MW-23D	SM 4500-H+B	786721		
50370739005	Field Blank 4	SM 4500-H+B	786721		
50370739001	MW-22S	EPA 353.2	785253		
50370739002	MW-22I	EPA 353.2	785253		
50370739003	MW-22D	EPA 353.2	785253		
50370739004	MW-23D	EPA 353.2	785253		
50370739005	Field Blank 4	EPA 353.2	785253		
50370739001	MW-22S	SM 5310C	786244		
50370739002	MW-22I	SM 5310C	786244		
50370739003	MW-22D	SM 5310C	786244		
50370739004	MW-23D	SM 5310C	786244		
50370739005	Field Blank 4	SM 5310C	786244		

REPORT OF LABORATORY ANALYSIS

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WO# : 50370739



50370739

Analytical Request Document

All fields must be completed accurately.

https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Submitting a sample via this chain of custody constitutes acknowledgment

Section A

Required Client Information:

Company: Atlas Indianapolis
Address: 7988 Centerpoint Drive, Suite 100, Indianapolis, IN 46256
Email: mark.breting@oneatlas.com
Phone: 317-313-8306
Requested Due Date:

Section B

Required Project Information:

Report To: Mark Breting
Copy To:
Attention: Accounts Payable - Paula Sedam
Company Name: Atlas Indianapolis
Address:
Purchase Order #: Eagle Valley April 2024
Pace Project Manager: will.statz@pacelabs.com
Project #: PIR4
Pace Profile #: 10498/56

Page : 1 Of 1

Regulatory Agency

State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)			
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	Tot. Metals 6010/6020/7470	Diss metals by 6010		TDS by 2540C	DOC by 5310	Alkalinity / pH / Ferrous Fe	Nitrate by 353.2	C. F. SO4 by 9056	Rad 226/228 + SUM to Pitt					
				DATE	TIME	DATE	TIME																								
1	MW-22S	WT	G	4/16/24	1146			8314														X	X	X	X	X	X			001	
2	MW-22I				1332																										002
3	MW-22D				1440																										003
4	MW-23D				1107																										004
5	Field Blank 4	WT	G	4/16/24	1440			8314														X	X	X	X	X	X				005

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NO2/NO3 has a SH time of 48 hours	Keeyon Lowhead/Atlas			T.H	4/16/24	17:38	L-L Y N Y
6020 - Be, Co, As, Se, Sb, Ba, Tl (7)							
6010 - B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li (12), 7470							
6010 Dis - Mo							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keeyon Lowhead

SIGNATURE of SAMPLER: *Keeyon Lowhead* DATE Signed: 4/16/24

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples in Contact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/16/24 17:38 TH

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**
 4. Cooler Temperature(s): 1.2/1.1 1.3/1.2
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
6. Ice Type: Wet Blue None
7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.		<input checked="" type="checkbox"/>	
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate 6-353.2	<input checked="" type="checkbox"/>		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form		<input checked="" type="checkbox"/>	
Time 5035A TC placed in Freezer or Short Holds To Lab		Time: 18:30	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?			<input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFB	WGKU	BG1U	MeOH (only)	SBS	DI	AMBER GLASS						PLASTIC						OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc										
							DG9H	DG9H	VOA VIAL HS >8mm	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N		BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black
																																	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																																				
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKL	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFL	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic	Miscellaneous	
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic	Syringe Kit	LL Cr+6 sampling kit
BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
BP2S	500mL H2SO4 plastic	R	Terracore Kit
BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
BP2Z	500mL NaOH, Zn Ac	GN	General Container
BP3B	250mL NaOH plastic	U	Summa Can (air sample)
BP3N	250mL HNO3 plastic	WT	Water
BP3F	250mL HNO3 plastic-field filtered	SL	Solid
BP3U	250mL unpreserved plastic	OL	Oil
BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe
BP3R	250mL Unpres. FF SO4/OH buffer		



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50370740

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370740001	MW-12I	Water	04/16/24 13:03	04/16/24 17:20
50370740002	MW-12D	Water	04/16/24 14:00	04/16/24 17:20
50370740003	Field Blank 1	Water	04/16/24 14:58	04/16/24 17:20
50370740004	Field Blank 2	Water	04/16/24 15:10	04/16/24 17:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370740001	MW-12I	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50370740002	MW-12D	EPA 9056	KBB
EPA 6010	JPK			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	DMT			7	PASI-I
EPA 7470	ILP			1	PASI-I
EPA 903.1	CLM			1	PASI-PA
EPA 904.0	VAL			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50370740003	Field Blank 1			EPA 9056	KBB
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370740004	Field Blank 2	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370740

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370740001	MW-12I					
EPA 9056	Chloride	90.0	mg/L	2.5	04/27/24 04:41	
EPA 9056	Fluoride	0.27	mg/L	0.10	04/27/24 04:23	
EPA 9056	Sulfate	171	mg/L	2.5	04/27/24 04:41	
EPA 6010	Boron	1700	ug/L	100	04/20/24 00:33	
EPA 6010	Calcium	128000	ug/L	1000	04/20/24 00:33	
EPA 6010	Iron	306	ug/L	100	04/20/24 00:33	
EPA 6010	Lithium	113	ug/L	20.0	04/20/24 00:33	
EPA 6010	Magnesium	31000	ug/L	1000	04/20/24 00:33	
EPA 6010	Manganese	288	ug/L	10.0	04/20/24 00:33	
EPA 6010	Molybdenum	157	ug/L	10.0	04/20/24 00:33	
EPA 6010	Potassium	11100	ug/L	1000	04/20/24 00:33	
EPA 6010	Sodium	74000	ug/L	1000	04/20/24 00:33	
EPA 6010	Molybdenum, Dissolved	162	ug/L	10.0	04/20/24 01:48	
EPA 6020	Barium	75.9	ug/L	1.0	04/22/24 15:48	
EPA 903.1	Radium-226	2.28 ± 1.03 (0.980)	pCi/L		04/26/24 11:57	
EPA 904.0	Radium-228	0.967 ± 0.430 (0.710) C:80% T:82%	pCi/L		04/24/24 12:15	
Total Radium Calculation	Total Radium	3.25 ± 1.46 (1.69)	pCi/L		04/26/24 13:33	
SM 2320B	Alkalinity, Total as CaCO3	281	mg/L	10.0	04/22/24 21:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	281	mg/L	10.0	04/22/24 21:13	
SM 2540C	Total Dissolved Solids	664	mg/L	10.0	04/19/24 11:24	
SM 4500-H+B	pH at 25 Degrees C	6.4	Std. Units	0.10	04/25/24 16:31	H3
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/25/24 16:32	
50370740002	MW-12D					
EPA 9056	Chloride	90.3	mg/L	2.5	04/27/24 05:17	
EPA 9056	Fluoride	0.25	mg/L	0.10	04/27/24 04:59	
EPA 9056	Sulfate	77.8	mg/L	2.5	04/27/24 05:17	
EPA 6010	Boron	1240	ug/L	100	04/20/24 00:35	
EPA 6010	Calcium	79600	ug/L	1000	04/20/24 00:35	
EPA 6010	Iron	373	ug/L	100	04/20/24 00:35	
EPA 6010	Lithium	74.3	ug/L	20.0	04/20/24 00:35	
EPA 6010	Magnesium	14800	ug/L	1000	04/20/24 00:35	
EPA 6010	Manganese	292	ug/L	10.0	04/20/24 00:35	
EPA 6010	Molybdenum	188	ug/L	10.0	04/20/24 00:35	
EPA 6010	Potassium	5480	ug/L	1000	04/20/24 00:35	
EPA 6010	Sodium	71200	ug/L	1000	04/20/24 00:35	
EPA 6010	Molybdenum, Dissolved	188	ug/L	10.0	04/20/24 01:49	
EPA 6020	Arsenic	3.0	ug/L	1.0	04/22/24 15:58	
EPA 6020	Barium	55.3	ug/L	1.0	04/22/24 15:58	
EPA 903.1	Radium-226	-0.305 ± 0.869 (1.84) C:NA T:84%	pCi/L		04/26/24 11:57	

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50370740002	MW-12D					
EPA 904.0	Radium-228	0.777 ± 0.433 (0.787) C:82% T:75%	pCi/L		04/24/24 12:16	
Total Radium Calculation	Total Radium	0.777 ± 1.30 (2.63)	pCi/L		04/26/24 13:33	
SM 2320B	Alkalinity, Total as CaCO3	225	mg/L	10.0	04/22/24 21:13	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	210	mg/L	10.0	04/22/24 21:13	
SM 2320B	Alkalinity,Carbonate (CaCO3)	15.6	mg/L	10.0	04/22/24 21:13	
SM 2540C	Total Dissolved Solids	466	mg/L	10.0	04/19/24 11:24	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	04/25/24 16:32	H3
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/25/24 16:43	
50370740003	Field Blank 1					
EPA 903.1	Radium-226	-0.0996 ± 0.586 (1.31) C:NA T:90%	pCi/L		04/26/24 12:11	
EPA 904.0	Radium-228	0.366 ± 0.365 (0.754) C:81% T:83%	pCi/L		04/24/24 12:16	
Total Radium Calculation	Total Radium	0.366 ± 0.951 (2.06)	pCi/L		04/26/24 13:33	
SM 4500-H+B	pH at 25 Degrees C	8.1	Std. Units	0.10	04/25/24 16:32	H3
50370740004	Field Blank 2					
EPA 903.1	Radium-226	0.382 ± 0.461 (0.703) C:NA T:91%	pCi/L		04/26/24 12:11	
EPA 904.0	Radium-228	0.502 ± 0.408 (0.818) C:83% T:76%	pCi/L		04/24/24 12:16	
Total Radium Calculation	Total Radium	0.884 ± 0.869 (1.52)	pCi/L		04/26/24 13:33	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	04/25/24 16:33	H3

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Sample: MW-12I **Lab ID: 50370740001** Collected: 04/16/24 13:03 Received: 04/16/24 17:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	90.0	mg/L	2.5	0.67	10		04/27/24 04:41	16887-00-6	
Fluoride	0.27	mg/L	0.10	0.017	1		04/27/24 04:23	16984-48-8	
Sulfate	171	mg/L	2.5	1.9	10		04/27/24 04:41	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	1700	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:33	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:33	7440-43-9	
Calcium	128000	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:33	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:33	7440-47-3	
Iron	306	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:33	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:33	7439-92-1	
Lithium	113	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:33	7439-93-2	
Magnesium	31000	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:33	7439-95-4	
Manganese	288	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:33	7439-96-5	
Molybdenum	157	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:33	7439-98-7	
Potassium	11100	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:33	7440-09-7	
Sodium	74000	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:33	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	162	ug/L	10.0	0.78	1	04/19/24 08:14	04/20/24 01:48	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 15:48	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 15:48	7440-38-2	
Barium	75.9	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 15:48	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 15:48	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 15:48	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 15:48	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 15:48	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/21/24 19:55	04/22/24 10:23	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	281	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	281	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Sample: MW-12I		Lab ID: 50370740001		Collected: 04/16/24 13:03	Received: 04/16/24 17:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	664	mg/L	10.0	10.0	1		04/19/24 11:24		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.4	Std. Units	0.10	0.10	1		04/25/24 16:31		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 23:06	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/25/24 16:32		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Sample: MW-12D		Lab ID: 50370740002		Collected: 04/16/24 14:00		Received: 04/16/24 17:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	90.3	mg/L	2.5	0.67	10		04/27/24 05:17	16887-00-6	
Fluoride	0.25	mg/L	0.10	0.017	1		04/27/24 04:59	16984-48-8	
Sulfate	77.8	mg/L	2.5	1.9	10		04/27/24 05:17	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1240	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:35	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:35	7440-43-9	
Calcium	79600	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:35	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:35	7440-47-3	
Iron	373	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:35	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:35	7439-92-1	
Lithium	74.3	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:35	7439-93-2	
Magnesium	14800	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:35	7439-95-4	
Manganese	292	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:35	7439-96-5	
Molybdenum	188	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:35	7439-98-7	
Potassium	5480	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:35	7440-09-7	
Sodium	71200	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:35	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	188	ug/L	10.0	0.78	1	04/19/24 08:14	04/20/24 01:49	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 15:58	7440-36-0	
Arsenic	3.0	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 15:58	7440-38-2	
Barium	55.3	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 15:58	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 15:58	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 15:58	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 15:58	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 15:58	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.12	1	04/21/24 19:55	04/22/24 10:25	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	225	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	210	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	15.6	mg/L	10.0	10.0	1		04/22/24 21:13		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Sample: MW-12D		Lab ID: 50370740002		Collected: 04/16/24 14:00	Received: 04/16/24 17:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	466	mg/L	10.0	10.0	1		04/19/24 11:24		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.8	Std. Units	0.10	0.10	1		04/25/24 16:32		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 23:13	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/25/24 16:43		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Sample: Field Blank 1 Lab ID: 50370740003 Collected: 04/16/24 14:58 Received: 04/16/24 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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9056 IC Anions

Analytical Method: EPA 9056
Pace Analytical Services - Indianapolis

Chloride	ND	mg/L	0.25	0.067	1		04/27/24 05:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/27/24 05:52	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		04/27/24 05:52	14808-79-8	

6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010
Pace Analytical Services - Indianapolis

Boron	ND	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:36	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:36	7440-43-9	
Calcium	ND	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:36	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:36	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:36	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:36	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:36	7439-93-2	
Magnesium	ND	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:36	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:36	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:36	7439-98-7	
Potassium	ND	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:36	7440-09-7	
Sodium	ND	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:36	7440-23-5	

6010 MET ICP, Dissolved

Analytical Method: EPA 6010 Preparation Method: EPA 3010
Pace Analytical Services - Indianapolis

Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/20/24 01:50	7439-98-7	
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6020 MET ICPMS

Analytical Method: EPA 6020 Preparation Method: EPA 200.2
Pace Analytical Services - Indianapolis

Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 16:02	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 16:02	7440-38-2	
Barium	ND	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 16:02	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 16:02	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 16:02	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 16:02	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 16:02	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470 Preparation Method: EPA 7470
Pace Analytical Services - Indianapolis

Mercury	ND	ug/L	0.20	0.12	1	04/21/24 19:55	04/22/24 10:28	7439-97-6	
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2320B Alkalinity

Analytical Method: SM 2320B
Pace Analytical Services - Indianapolis

Alkalinity, Total as CaCO3	ND	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Sample: Field Blank 1 Lab ID: 50370740003 Collected: 04/16/24 14:58 Received: 04/16/24 17:20 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/19/24 11:24		PL
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	8.1	Std. Units	0.10	0.10	1		04/25/24 16:32		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 23:19	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/25/24 16:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Sample: Field Blank 2 Lab ID: 50370740004 Collected: 04/16/24 15:10 Received: 04/16/24 17:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	ND	mg/L	0.25	0.067	1		04/27/24 06:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		04/27/24 06:10	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		04/27/24 06:10	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	ND	ug/L	100	6.2	1	04/19/24 07:53	04/20/24 00:38	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/19/24 07:53	04/20/24 00:38	7440-43-9	
Calcium	ND	ug/L	1000	67.7	1	04/19/24 07:53	04/20/24 00:38	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/19/24 07:53	04/20/24 00:38	7440-47-3	
Iron	ND	ug/L	100	30.0	1	04/19/24 07:53	04/20/24 00:38	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/19/24 07:53	04/20/24 00:38	7439-92-1	
Lithium	ND	ug/L	20.0	6.8	1	04/19/24 07:53	04/20/24 00:38	7439-93-2	
Magnesium	ND	ug/L	1000	33.6	1	04/19/24 07:53	04/20/24 00:38	7439-95-4	
Manganese	ND	ug/L	10.0	1.8	1	04/19/24 07:53	04/20/24 00:38	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.78	1	04/19/24 07:53	04/20/24 00:38	7439-98-7	
Potassium	ND	ug/L	1000	97.8	1	04/19/24 07:53	04/20/24 00:38	7440-09-7	
Sodium	ND	ug/L	1000	54.8	1	04/19/24 07:53	04/20/24 00:38	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/19/24 08:14	04/20/24 01:52	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 16:05	7440-36-0	
Arsenic	ND	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 16:05	7440-38-2	
Barium	ND	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 16:05	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 16:05	7440-41-7	
Cobalt	ND	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 16:05	7440-48-4	
Selenium	ND	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 16:05	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 16:05	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/21/24 19:55	04/22/24 10:30	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	ND	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/22/24 21:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Sample: Field Blank 2		Lab ID: 50370740004		Collected: 04/16/24 15:10	Received: 04/16/24 17:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/19/24 11:25		PL
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		04/25/24 16:33		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/16/24 23:20	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/25/24 17:02		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
 Pace Project No.: 50370740

QC Batch: 786257 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3596847 Matrix: Water
 Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/27/24 03:48	
Fluoride	mg/L	ND	0.10	0.017	04/27/24 03:48	
Sulfate	mg/L	ND	0.25	0.19	04/27/24 03:48	

LABORATORY CONTROL SAMPLE: 3596848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596849 3596850

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370765006 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	6.8	2.5	2.5	9.1	9.1	92	92	80-120	0	15		
Fluoride	mg/L	0.11	1	1	1.1	1.1	98	98	80-120	1	15		
Sulfate	mg/L	80.5	50	50	126	127	91	94	80-120	1	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch:	785934	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3595714 Matrix: Water
 Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/22/24 10:13	

LABORATORY CONTROL SAMPLE: 3595715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3595716 3595717

Parameter	Units	50370811006		3595717		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	ND	5	5	5.0	4.9	100	98	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50370740

QC Batch: 785245 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3592307 Matrix: Water
Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	04/19/24 23:56	
Cadmium	ug/L	ND	2.0	0.60	04/19/24 23:56	
Calcium	ug/L	ND	1000	67.7	04/19/24 23:56	
Chromium	ug/L	ND	10.0	0.42	04/19/24 23:56	
Iron	ug/L	ND	100	30.0	04/19/24 23:56	
Lead	ug/L	ND	10.0	2.5	04/19/24 23:56	
Lithium	ug/L	ND	20.0	6.8	04/19/24 23:56	
Magnesium	ug/L	ND	1000	33.6	04/19/24 23:56	
Manganese	ug/L	ND	10.0	1.8	04/19/24 23:56	
Molybdenum	ug/L	ND	10.0	0.78	04/19/24 23:56	
Potassium	ug/L	ND	1000	97.8	04/19/24 23:56	
Sodium	ug/L	ND	1000	54.8	04/19/24 23:56	

LABORATORY CONTROL SAMPLE: 3592308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	951	95	80-120	
Cadmium	ug/L	1000	987	99	80-120	
Calcium	ug/L	10000	9940	99	80-120	
Chromium	ug/L	1000	978	98	80-120	
Iron	ug/L	10000	9850	99	80-120	
Lead	ug/L	1000	962	96	80-120	
Lithium	ug/L	1000	985	98	80-120	
Magnesium	ug/L	10000	9690	97	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Molybdenum	ug/L	1000	1020	102	80-120	
Potassium	ug/L	10000	9680	97	80-120	
Sodium	ug/L	10000	9630	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592309 3592310

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50370673001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Boron	ug/L	0.63 mg/L	1000	1000	1610	1610	98	98	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	1000	1000	100	100	75-125	0	20	
Calcium	ug/L	12.7 mg/L	10000	10000	22400	22300	97	96	75-125	0	20	
Chromium	ug/L	ND	1000	1000	980	978	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592309 3592310											
Parameter	Units	50370673001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Iron	ug/L	ND	10000	10000	9920	9890	99	99	75-125	0	20
Lead	ug/L	ND	1000	1000	951	948	95	95	75-125	0	20
Lithium	ug/L	0.15 mg/L	1000	1000	1120	1120	98	98	75-125	0	20
Magnesium	ug/L	5.7 mg/L	10000	10000	15200	15200	95	95	75-125	0	20
Manganese	ug/L	ND	1000	1000	1010	1010	100	100	75-125	0	20
Molybdenum	ug/L	ND	1000	1000	1030	1030	103	103	75-125	0	20
Potassium	ug/L	25.2 mg/L	10000	10000	34300	34300	91	91	75-125	0	20
Sodium	ug/L	110 mg/L	10000	10000	116000	116000	65	58	75-125	1	20 P6

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch:	785247	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3592330 Matrix: Water
 Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/20/24 01:09	

LABORATORY CONTROL SAMPLE: 3592331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592332 3592333

Parameter	Units	50370343021		50370343022		50370343023		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Molybdenum, Dissolved	ug/L	23.4	1000	1070	1070	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch:	785664	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3594106 Matrix: Water

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.27	04/22/24 14:16	
Arsenic	ug/L	ND	1.0	0.11	04/22/24 14:16	
Barium	ug/L	ND	1.0	0.090	04/22/24 14:16	
Beryllium	ug/L	ND	0.20	0.030	04/22/24 14:16	
Cobalt	ug/L	ND	1.0	0.16	04/22/24 14:16	
Selenium	ug/L	ND	1.0	0.22	04/22/24 14:16	
Thallium	ug/L	ND	1.0	0.043	04/22/24 14:16	

LABORATORY CONTROL SAMPLE: 3594107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.7	104	80-120	
Arsenic	ug/L	40	40.2	100	80-120	
Barium	ug/L	40	39.5	99	80-120	
Beryllium	ug/L	40	38.6	97	80-120	
Cobalt	ug/L	40	42.0	105	80-120	
Selenium	ug/L	40	39.9	100	80-120	
Thallium	ug/L	40	41.4	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3594108 3594109

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370794001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	43.2	43.3	107	108	75-125	0	20
Arsenic	ug/L	ND	40	40	39.3	39.7	97	98	75-125	1	20
Barium	ug/L	15.5	40	40	55.2	56.5	99	102	75-125	2	20
Beryllium	ug/L	ND	40	40	38.7	38.4	96	96	75-125	1	20
Cobalt	ug/L	27.5	40	40	68.3	68.1	102	102	75-125	0	20
Selenium	ug/L	1.9	40	40	40.7	41.5	97	99	75-125	2	20
Thallium	ug/L	0.35	40	40	43.7	43.7	108	108	75-125	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch:	786114	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3596291 Matrix: Water
 Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/22/24 21:13	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/22/24 21:13	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/22/24 21:13	

LABORATORY CONTROL SAMPLE: 3596292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	90-110	

SAMPLE DUPLICATE: 3596293

Parameter	Units	50371106001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	229	232	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	229	232	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3596294

Parameter	Units	50370739001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	338	343	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	338	343	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch: 785721 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3594540 Matrix: Water
 Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/19/24 11:20	

LABORATORY CONTROL SAMPLE: 3594541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	269	90	80-120	

SAMPLE DUPLICATE: 3594542

Parameter	Units	50370962004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	648	648	0	10	

SAMPLE DUPLICATE: 3594543

Parameter	Units	50370792001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	7820	8360	7	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch: 786721

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

SAMPLE DUPLICATE: 3598832

Parameter	Units	50370689002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.1	1	2	H3

SAMPLE DUPLICATE: 3598833

Parameter	Units	50370811007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.7	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch:	785253	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3592343 Matrix: Water
 Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/16/24 22:38	

LABORATORY CONTROL SAMPLE: 3592344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3592345 3592346

Parameter	Units	50370673007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.76	1	1	1.8	1.8	105	106	90-110	1	20	

MATRIX SPIKE SAMPLE: 3592347

Parameter	Units	50370739001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.2	1	2.2	103	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch:	786244	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50370740001, 50370740002, 50370740003, 50370740004		

METHOD BLANK: 3596782 Matrix: Water
 Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/24/24 20:13	

LABORATORY CONTROL SAMPLE: 3596783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596784 3596785

Parameter	Units	50370854008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	4.3	10	10	12.7	13.3	84	91	80-120	5	20	

MATRIX SPIKE SAMPLE: 3596787

Parameter	Units	50370739001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	3.0	10	12.3	93	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-12I Lab ID: 50370740001 Collected: 04/16/24 13:03 Received: 04/16/24 17:20 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	2.28 ± 1.03 (0.980) C:NA T:85%	pCi/L	04/26/24 11:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.967 ± 0.430 (0.710) C:80% T:82%	pCi/L	04/24/24 12:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.25 ± 1.46 (1.69)	pCi/L	04/26/24 13:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-12D Lab ID: 50370740002 Collected: 04/16/24 14:00 Received: 04/16/24 17:20 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.305 ± 0.869 (1.84) C:NA T:84%	pCi/L	04/26/24 11:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.777 ± 0.433 (0.787) C:82% T:75%	pCi/L	04/24/24 12:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.777 ± 1.30 (2.63)	pCi/L	04/26/24 13:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Field Blank 1 Lab ID: 50370740003 Collected: 04/16/24 14:58 Received: 04/16/24 17:20 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0996 ± 0.586 (1.31) C:NA T:90%	pCi/L	04/26/24 12:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.366 ± 0.365 (0.754) C:81% T:83%	pCi/L	04/24/24 12:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.366 ± 0.951 (2.06)	pCi/L	04/26/24 13:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: Field Blank 2 Lab ID: 50370740004 Collected: 04/16/24 15:10 Received: 04/16/24 17:20 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.382 ± 0.461 (0.703) C:NA T:91%	pCi/L	04/26/24 12:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.502 ± 0.408 (0.818) C:83% T:76%	pCi/L	04/24/24 12:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.884 ± 0.869 (1.52)	pCi/L	04/26/24 13:33	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch: 663216

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: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3230075

Matrix: Water

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.714 ± 0.400 (0.720) C:79% T:77%	pCi/L	04/24/24 12:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

QC Batch: 663214

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: 50370740001, 50370740002, 50370740003, 50370740004

METHOD BLANK: 3230073

Matrix: Water

Associated Lab Samples: 50370740001, 50370740002, 50370740003, 50370740004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.147 ± 0.455 (0.882) C:NA T:85%	pCi/L	04/26/24 11:57	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370740001	MW-12I	EPA 9056	786257		
50370740002	MW-12D	EPA 9056	786257		
50370740003	Field Blank 1	EPA 9056	786257		
50370740004	Field Blank 2	EPA 9056	786257		
50370740001	MW-12I	EPA 3010	785245	EPA 6010	785890
50370740002	MW-12D	EPA 3010	785245	EPA 6010	785890
50370740003	Field Blank 1	EPA 3010	785245	EPA 6010	785890
50370740004	Field Blank 2	EPA 3010	785245	EPA 6010	785890
50370740001	MW-12I	EPA 3010	785247	EPA 6010	785892
50370740002	MW-12D	EPA 3010	785247	EPA 6010	785892
50370740003	Field Blank 1	EPA 3010	785247	EPA 6010	785892
50370740004	Field Blank 2	EPA 3010	785247	EPA 6010	785892
50370740001	MW-12I	EPA 200.2	785664	EPA 6020	785886
50370740002	MW-12D	EPA 200.2	785664	EPA 6020	785886
50370740003	Field Blank 1	EPA 200.2	785664	EPA 6020	785886
50370740004	Field Blank 2	EPA 200.2	785664	EPA 6020	785886
50370740001	MW-12I	EPA 7470	785934	EPA 7470	785969
50370740002	MW-12D	EPA 7470	785934	EPA 7470	785969
50370740003	Field Blank 1	EPA 7470	785934	EPA 7470	785969
50370740004	Field Blank 2	EPA 7470	785934	EPA 7470	785969
50370740001	MW-12I	EPA 903.1	663214		
50370740002	MW-12D	EPA 903.1	663214		
50370740003	Field Blank 1	EPA 903.1	663214		
50370740004	Field Blank 2	EPA 903.1	663214		
50370740001	MW-12I	EPA 904.0	663216		
50370740002	MW-12D	EPA 904.0	663216		
50370740003	Field Blank 1	EPA 904.0	663216		
50370740004	Field Blank 2	EPA 904.0	663216		
50370740001	MW-12I	Total Radium Calculation	664885		
50370740002	MW-12D	Total Radium Calculation	664885		
50370740003	Field Blank 1	Total Radium Calculation	664885		
50370740004	Field Blank 2	Total Radium Calculation	664885		
50370740001	MW-12I	SM 2320B	786114		
50370740002	MW-12D	SM 2320B	786114		
50370740003	Field Blank 1	SM 2320B	786114		
50370740004	Field Blank 2	SM 2320B	786114		
50370740001	MW-12I	SM 2540C	785721		
50370740002	MW-12D	SM 2540C	785721		
50370740003	Field Blank 1	SM 2540C	785721		
50370740004	Field Blank 2	SM 2540C	785721		
50370740001	MW-12I	SM 4500-H+B	786721		
50370740002	MW-12D	SM 4500-H+B	786721		
50370740003	Field Blank 1	SM 4500-H+B	786721		
50370740004	Field Blank 2	SM 4500-H+B	786721		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370740

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370740001	MW-12I	EPA 353.2	785253		
50370740002	MW-12D	EPA 353.2	785253		
50370740003	Field Blank 1	EPA 353.2	785253		
50370740004	Field Blank 2	EPA 353.2	785253		
50370740001	MW-12I	SM 5310C	786244		
50370740002	MW-12D	SM 5310C	786244		
50370740003	Field Blank 1	SM 5310C	786244		
50370740004	Field Blank 2	SM 5310C	786244		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/16/24 17:56 JG

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No
 (If yes) Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**

4. Cooler Temperature(s): 3.6/3.5
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		—	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate	—		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	—		
Time 5035A TC placed in Freezer or Short Holds To Lab Time: 18:35			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		—	Residual Chlorine Check (Total/Amenable/Free Cyanide)			—
Custody Signatures Present?	—		Headspace Wisconsin Sulfide?			—
Containers Intact?:	—		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	—		Trip Blank Present?		—	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			—

COMMENTS:



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50370833

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50370833

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R1
Pace Project No.: 50370833

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50370833001	MW-10S	Water	04/17/24 11:00	04/17/24 15:51

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50370833001	MW-10S	EPA 9056	ADM	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	ELK	1	PASI-I
		EPA 6020	DMT	7	PASI-I
		EPA 7470	EAE	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50370833001	MW-10S					
EPA 9056	Chloride	51.9	mg/L	2.5	04/30/24 04:58	
EPA 9056	Fluoride	0.13	mg/L	0.10	04/30/24 04:41	
EPA 9056	Sulfate	301	mg/L	2.5	04/30/24 04:58	
EPA 6010	Boron	5760	ug/L	100	04/24/24 12:06	
EPA 6010	Calcium	189000	ug/L	1000	04/24/24 12:06	
EPA 6010	Iron	1660	ug/L	100	04/24/24 12:06	
EPA 6010	Lithium	72.9	ug/L	20.0	04/24/24 12:06	
EPA 6010	Magnesium	43000	ug/L	1000	04/24/24 12:06	
EPA 6010	Manganese	779	ug/L	10.0	04/24/24 12:06	
EPA 6010	Molybdenum	45.2	ug/L	10.0	04/24/24 12:06	
EPA 6010	Potassium	8480	ug/L	1000	04/24/24 12:06	
EPA 6010	Sodium	72200	ug/L	1000	04/24/24 12:06	
EPA 6010	Molybdenum, Dissolved	38.6	ug/L	10.0	04/23/24 13:37	
EPA 6020	Antimony	2.4	ug/L	1.0	04/22/24 16:09	
EPA 6020	Arsenic	2.1	ug/L	1.0	04/22/24 16:09	
EPA 6020	Barium	97.6	ug/L	1.0	04/22/24 16:09	
EPA 6020	Cobalt	1.6	ug/L	1.0	04/22/24 16:09	
EPA 6020	Selenium	36.3	ug/L	1.0	04/22/24 16:09	
EPA 903.1	Radium-226	0.742 ± 0.587 (0.857)	pCi/L		05/09/24 13:49	
EPA 904.0	Radium-228	C:NA T:88% 0.731 ± 0.387 (0.678)	pCi/L		05/01/24 15:53	
		C:88% T:80%				
Total Radium Calculation	Total Radium	1.47 ± 0.974 (1.54)	pCi/L		05/09/24 16:12	
SM 2320B	Alkalinity, Total as CaCO3	432	mg/L	10.0	04/23/24 23:30	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	432	mg/L	10.0	04/23/24 23:30	
SM 2540C	Total Dissolved Solids	880	mg/L	20.0	04/23/24 10:54	
SM 4500-H+B	pH at 25 Degrees C	6.6	Std. Units	0.10	04/26/24 16:56	H3
EPA 353.2	Nitrogen, Nitrate	0.66	mg/L	0.10	04/18/24 23:40	
SM 5310C	Dissolved Organic Carbon	1.8	mg/L	1.0	04/30/24 20:08	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

Sample: MW-10S Lab ID: 50370833001 Collected: 04/17/24 11:00 Received: 04/17/24 15:51 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	51.9	mg/L	2.5	0.67	10		04/30/24 04:58	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.017	1		04/30/24 04:41	16984-48-8	
Sulfate	301	mg/L	2.5	1.9	10		04/30/24 04:58	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	5760	ug/L	100	11.4	1	04/22/24 08:18	04/24/24 12:06	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/22/24 08:18	04/24/24 12:06	7440-43-9	
Calcium	189000	ug/L	1000	56.7	1	04/22/24 08:18	04/24/24 12:06	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/22/24 08:18	04/24/24 12:06	7440-47-3	
Iron	1660	ug/L	100	18.1	1	04/22/24 08:18	04/24/24 12:06	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/22/24 08:18	04/24/24 12:06	7439-92-1	
Lithium	72.9	ug/L	20.0	5.1	1	04/22/24 08:18	04/24/24 12:06	7439-93-2	
Magnesium	43000	ug/L	1000	32.8	1	04/22/24 08:18	04/24/24 12:06	7439-95-4	
Manganese	779	ug/L	10.0	1.1	1	04/22/24 08:18	04/24/24 12:06	7439-96-5	
Molybdenum	45.2	ug/L	10.0	1.1	1	04/22/24 08:18	04/24/24 12:06	7439-98-7	
Potassium	8480	ug/L	1000	120	1	04/22/24 08:18	04/24/24 12:06	7440-09-7	
Sodium	72200	ug/L	1000	48.2	1	04/22/24 08:18	04/24/24 12:06	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	38.6	ug/L	10.0	0.78	1	04/22/24 20:22	04/23/24 13:37	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	2.4	ug/L	1.0	0.27	1	04/19/24 16:02	04/22/24 16:09	7440-36-0	
Arsenic	2.1	ug/L	1.0	0.11	1	04/19/24 16:02	04/22/24 16:09	7440-38-2	
Barium	97.6	ug/L	1.0	0.090	1	04/19/24 16:02	04/22/24 16:09	7440-39-3	
Beryllium	ND	ug/L	0.20	0.030	1	04/19/24 16:02	04/22/24 16:09	7440-41-7	
Cobalt	1.6	ug/L	1.0	0.16	1	04/19/24 16:02	04/22/24 16:09	7440-48-4	
Selenium	36.3	ug/L	1.0	0.22	1	04/19/24 16:02	04/22/24 16:09	7782-49-2	
Thallium	ND	ug/L	1.0	0.043	1	04/19/24 16:02	04/22/24 16:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.091	1	04/23/24 09:35	04/23/24 19:27	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	432	mg/L	10.0	10.0	1		04/23/24 23:30		
Alkalinity,Bicarbonate (CaCO3)	432	mg/L	10.0	10.0	1		04/23/24 23:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/23/24 23:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

Sample: MW-10S		Lab ID: 50370833001		Collected: 04/17/24 11:00	Received: 04/17/24 15:51	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	880	mg/L	20.0	20.0	1		04/23/24 10:54		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.6	Std. Units	0.10	0.10	1		04/26/24 16:56		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	0.66	mg/L	0.10	0.013	1		04/18/24 23:40	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.8	mg/L	1.0	0.25	1		04/30/24 20:08		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch:	786258	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

METHOD BLANK: 3596853 Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/29/24 14:16	
Fluoride	mg/L	ND	0.10	0.017	04/29/24 14:16	
Sulfate	mg/L	ND	0.25	0.19	04/29/24 14:16	

LABORATORY CONTROL SAMPLE: 3596854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	0.96	96	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596855 3596856

Parameter	Units	50370673004		3596856		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
Chloride	mg/L	25.1	25	25	48.7	48.7	94	94	80-120	0	15		
Fluoride	mg/L	ND	1	1	1.0	1.0	95	97	80-120	1	15		
Sulfate	mg/L	74.3	50	50	123	122	97	95	80-120	1	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch: 786058	Analysis Method: EPA 7470
QC Batch Method: EPA 7470	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

METHOD BLANK: 3596096 Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/23/24 18:50	

LABORATORY CONTROL SAMPLE: 3596097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596098 3596099

Parameter	Units	50370900003		3596099		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	ug/L	ND	5	5	5.1	4.8	101	96	75-125	6	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch:	785682	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

METHOD BLANK: 3594259 Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	11.4	04/24/24 11:28	
Cadmium	ug/L	ND	2.0	0.74	04/24/24 11:28	
Calcium	ug/L	ND	1000	56.7	04/24/24 11:28	
Chromium	ug/L	ND	10.0	1.4	04/24/24 11:28	
Iron	ug/L	ND	100	18.1	04/24/24 11:28	
Lead	ug/L	ND	10.0	4.0	04/24/24 11:28	
Lithium	ug/L	ND	20.0	5.1	04/24/24 11:28	
Magnesium	ug/L	ND	1000	32.8	04/24/24 11:28	
Manganese	ug/L	ND	10.0	1.1	04/24/24 11:28	
Molybdenum	ug/L	ND	10.0	1.1	04/24/24 11:28	
Potassium	ug/L	ND	1000	120	04/24/24 11:28	
Sodium	ug/L	ND	1000	48.2	04/24/24 11:28	

LABORATORY CONTROL SAMPLE: 3594260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	932	93	80-120	
Cadmium	ug/L	1000	926	93	80-120	
Calcium	ug/L	10000	9810	98	80-120	
Chromium	ug/L	1000	961	96	80-120	
Iron	ug/L	10000	9320	93	80-120	
Lead	ug/L	1000	908	91	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	9460	95	80-120	
Manganese	ug/L	1000	949	95	80-120	
Molybdenum	ug/L	1000	986	99	80-120	
Potassium	ug/L	10000	9650	96	80-120	
Sodium	ug/L	10000	9460	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3594261 3594262

Parameter	Units	3594261		3594262		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	ug/L	48.1	1000	1010	1030	96	98	75-125	2	20	
Cadmium	ug/L	<2.0	1000	936	952	94	95	75-125	2	20	
Calcium	ug/L	167000	10000	172000	171000	55	46	75-125	1	20 P6	
Chromium	ug/L	<10.0	1000	959	970	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3594261 3594262													
Parameter	Units	50370749001		MS	MSD	3594262		% Rec	% Rec	% Rec	Max		
		Result	Conc.	Spike	Conc.	MS	MSD					MS	MSD
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Iron	ug/L	4780	10000	10000	10000	13900	14000	91	92	75-125	1	20	
Lead	ug/L	<10.0	1000	1000	1000	885	899	88	90	75-125	2	20	
Lithium	ug/L	<20.0	1000	1000	1000	1020	1030	100	102	75-125	1	20	
Magnesium	ug/L	68600	10000	10000	10000	76200	75900	76	73	75-125	0	20	P6
Manganese	ug/L	2220	1000	1000	1000	3080	3070	86	85	75-125	0	20	
Molybdenum	ug/L	<10.0	1000	1000	1000	1000	1010	100	101	75-125	1	20	
Potassium	ug/L	2080	10000	10000	10000	11800	11900	97	98	75-125	1	20	
Sodium	ug/L	14100	10000	10000	10000	23100	23100	90	90	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch:	785950	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

METHOD BLANK: 3595776 Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/23/24 13:32	

LABORATORY CONTROL SAMPLE: 3595777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	932	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3595778 3595779

Parameter	Units	50371093008		3595779		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Molybdenum, Dissolved	ug/L	<10.0	1000	957	961	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch:	785664	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

METHOD BLANK: 3594106 Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.27	04/22/24 14:16	
Arsenic	ug/L	ND	1.0	0.11	04/22/24 14:16	
Barium	ug/L	ND	1.0	0.090	04/22/24 14:16	
Beryllium	ug/L	ND	0.20	0.030	04/22/24 14:16	
Cobalt	ug/L	ND	1.0	0.16	04/22/24 14:16	
Selenium	ug/L	ND	1.0	0.22	04/22/24 14:16	
Thallium	ug/L	ND	1.0	0.043	04/22/24 14:16	

LABORATORY CONTROL SAMPLE: 3594107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.7	104	80-120	
Arsenic	ug/L	40	40.2	100	80-120	
Barium	ug/L	40	39.5	99	80-120	
Beryllium	ug/L	40	38.6	97	80-120	
Cobalt	ug/L	40	42.0	105	80-120	
Selenium	ug/L	40	39.9	100	80-120	
Thallium	ug/L	40	41.4	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3594108 3594109

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370794001 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	43.2	43.3	107	108	75-125	0	20
Arsenic	ug/L	ND	40	40	39.3	39.7	97	98	75-125	1	20
Barium	ug/L	15.5	40	40	55.2	56.5	99	102	75-125	2	20
Beryllium	ug/L	ND	40	40	38.7	38.4	96	96	75-125	1	20
Cobalt	ug/L	27.5	40	40	68.3	68.1	102	102	75-125	0	20
Selenium	ug/L	1.9	40	40	40.7	41.5	97	99	75-125	2	20
Thallium	ug/L	0.35	40	40	43.7	43.7	108	108	75-125	0	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch: 786341

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

METHOD BLANK: 3597202

Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/23/24 23:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/23/24 23:30	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/23/24 23:30	

LABORATORY CONTROL SAMPLE: 3597203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	90-110	

SAMPLE DUPLICATE: 3597204

Parameter	Units	50370881012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	639	651	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	639	651	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3597205

Parameter	Units	50370833001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	432	434	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	432	434	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch: 786163

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

METHOD BLANK: 3596520

Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/23/24 10:49	

LABORATORY CONTROL SAMPLE: 3596521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	261	87	80-120	

SAMPLE DUPLICATE: 3596522

Parameter	Units	50370991014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	616	617	0	10	

SAMPLE DUPLICATE: 3596523

Parameter	Units	50370881006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	382	366	4	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch: 786957

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

SAMPLE DUPLICATE: 3600097

Parameter	Units	50370290019 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.5	8.6	0	2	H3

SAMPLE DUPLICATE: 3600098

Parameter	Units	50370930001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.7	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch:	785695	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

METHOD BLANK: 3594356 Matrix: Water
 Associated Lab Samples: 50370833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/18/24 23:29	

LABORATORY CONTROL SAMPLE: 3594357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3594358 3594359

Parameter	Units	50370833001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.66	1	1	1.7	1.7	104	104	90-110	0	20	

MATRIX SPIKE SAMPLE: 3594360

Parameter	Units	50370919005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	102	90-110	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch: 787166	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50370833001

METHOD BLANK: 3601255 Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/30/24 16:42	

LABORATORY CONTROL SAMPLE: 3601256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3601257 3601258

Parameter	Units	50370854005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	11.6	40	40	52.9	52.4	103	102	80-120	1	20	

MATRIX SPIKE SAMPLE: 3601259

Parameter	Units	50371215001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.9	10	10.9	90	80-120	

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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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

Sample: MW-10S **Lab ID: 50370833001** Collected: 04/17/24 11:00 Received: 04/17/24 15:51 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.742 ± 0.587 (0.857) C:NA T:88%	pCi/L	05/09/24 13:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.731 ± 0.387 (0.678) C:88% T:80%	pCi/L	05/01/24 15:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.47 ± 0.974 (1.54)	pCi/L	05/09/24 16:12	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch: 664154

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: 50370833001

METHOD BLANK: 3233903

Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.464 ± 0.359 (0.706) C:82% T:87%	pCi/L	05/01/24 15:51	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

QC Batch: 664152

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: 50370833001

METHOD BLANK: 3233902

Matrix: Water

Associated Lab Samples: 50370833001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.125 ± 0.217 (0.387) C:NA T:89%	pCi/L	05/09/24 13:37	

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

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QUALIFIERS

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R1

Pace Project No.: 50370833

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50370833001	MW-10S	EPA 9056	786258		
50370833001	MW-10S	EPA 3010	785682	EPA 6010	786428
50370833001	MW-10S	EPA 3010	785950	EPA 6010	786262
50370833001	MW-10S	EPA 200.2	785664	EPA 6020	785886
50370833001	MW-10S	EPA 7470	786058	EPA 7470	786310
50370833001	MW-10S	EPA 903.1	664152		
50370833001	MW-10S	EPA 904.0	664154		
50370833001	MW-10S	Total Radium Calculation	667756		
50370833001	MW-10S	SM 2320B	786341		
50370833001	MW-10S	SM 2540C	786163		
50370833001	MW-10S	SM 4500-H+B	786957		
50370833001	MW-10S	EPA 353.2	785695		
50370833001	MW-10S	SM 5310C	787166		

REPORT OF LABORATORY ANALYSIS

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WO# : 50370833



50370833

Request Document

Relevant fields must be completed accurately.

at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the terms and conditions of this Request Document.

Page: 1 Of 1

Section A

Required Client Information:

Section B

Required Project Information:

Company: Atlas Indianapolis	Report To: Mark Breting	Attention: Accounts Payable - Paula Sedam
Address: 7988 Centerpoint Drive	Copy To:	Company Name: Atlas Indianapolis
Suite 100, Indianapolis, IN 46256		Address:
Email: mark.breting@oneatlas.com	Purchase Order #:	Pace Quote:
Phone: 317-313-8306 Fax:	Project Name: Eagle Valley April 2024	Pace Project Manager: will.statz@pacelabs.com
Requested Due Date:	Project #: PIR1	Pace Profile #: 10498/56

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses: Test V/N	Requested Analysis Filtered (Y/N)									Residual Chlorine (Y/N)			
						START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Tot. Metals 6010/6020/7470	Dis metals by 6010		TDS by 2540C	DOC by 5310	Alkalinity / pH / Ferrrous Fe	Nitrate by 353.2	C, F, SO4 by 9056	Rad 226/228 + SUM to Pitt							
1	MW-105			WT	G	4/17/24	109				83	14							X	X	X	X	X	X											001
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	Keegan Lawrence/Mos	4/17/24		T.H	4/17/24	15:51	13	Y	N	Y
6020 - Be, Co, As, Se, Sb, Ba, Ti (7)										
6010 - B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li (12), 7470										
6010 Dis - Mo										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples in contact (Y/N)
PRINT Name of SAMPLER:	Keegan Lawrence					
SIGNATURE of SAMPLER:	<i>Keegan Lawrence</i>					

DATE Signed: 4/17/24



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/17/24 15:51 TH

- 1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No
(If yes)Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**

1.2/1.3			
---------	--	--	--
- 4. Cooler Temperature(s):
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____
- 6. Ice Type: Wet Blue None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	✓		
Short Hold Time Analysis (48 hours or less)? Analysis: <u>nitrate by 353.2</u>	✓		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	✓		
Time 5035A TC placed in Freezer or Short Holds To Lab			Time: <u>stored in walk-in</u>	Present	Absent	N/A
Rush TAT Requested (4 days or less):	✓	✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Custody Signatures Present?	✓		Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Containers Intact?:	✓		Headspace Wisconsin Sulfide?			✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?			✓
			Trip Blank Custody Seals?:			✓

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	R	VIALS							AMBER GLASS					PLASTIC					OTHER			Matrix																
			MeOH (only)	SBS	DI	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc				
																																Red	Yellow	Green	Black				
1																				2	1	2													HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9	
2																																							
3																																							
4																																							
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							

Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Miscellaneous	
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	Syringe Kit	LL Cr+6 sampling kit
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore Kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	GN	General Container
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can (air sample)
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	WT	Water
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	SL	Solid Solid
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	OL:	Oil
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50371215

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 22, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R4
Pace Project No.: 50371215

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50371215001	MW-17S	Water	04/22/24 10:25	04/22/24 14:35
50371215002	MW-17I	Water	04/22/24 11:10	04/22/24 14:35
50371215003	MW-17D	Water	04/22/24 12:00	04/22/24 14:35

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50371215001	MW-17S	EPA 9056	KBB	3	PASI-I
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	MTM	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	WDB	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50371215002	MW-17I	EPA 9056	KBB
EPA 6010	NWB			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	MTM			7	PASI-I
EPA 7470	ILP			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	WDB			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	RJP			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50371215003	MW-17D			EPA 9056	KBB
		EPA 6010	NWB	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	MTM	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	WDB	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50371215001	MW-17S					
EPA 9056	Chloride	40.7	mg/L	2.5	05/04/24 12:07	
EPA 9056	Fluoride	0.16	mg/L	0.10	05/04/24 11:48	
EPA 9056	Sulfate	30.0	mg/L	0.25	05/04/24 11:48	
EPA 6010	Boron	396	ug/L	100	04/26/24 10:21	
EPA 6010	Calcium	110000	ug/L	1000	04/26/24 10:21	
EPA 6010	Magnesium	22800	ug/L	1000	04/26/24 10:21	
EPA 6010	Molybdenum	16.5	ug/L	10.0	04/26/24 10:21	
EPA 6010	Potassium	3610	ug/L	1000	04/26/24 10:21	
EPA 6010	Sodium	24300	ug/L	1000	04/26/24 10:21	
EPA 6010	Molybdenum, Dissolved	15.9	ug/L	10.0	04/25/24 23:07	
EPA 6020	Barium	128	ug/L	1.0	04/25/24 23:17	
EPA 6020	Selenium	1.4	ug/L	1.0	04/25/24 23:17	
EPA 903.1	Radium-226	0.0573 ± 0.515 (0.998)	pCi/L		05/14/24 13:49	
EPA 904.0	Radium-228	C:NA T:86% 0.739 ± 0.404 (0.732)	pCi/L		05/07/24 11:45	
		C:83% T:87%				
Total Radium Calculation	Total Radium	0.796 ± 0.919 (1.73)	pCi/L		05/14/24 16:07	
SM 2320B	Alkalinity, Total as CaCO3	327	mg/L	10.0	04/25/24 15:12	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	310	mg/L	10.0	04/25/24 15:12	
SM 2320B	Alkalinity,Carbonate (CaCO3)	17.6	mg/L	10.0	04/25/24 15:12	
SM 2540C	Total Dissolved Solids	402	mg/L	10.0	04/25/24 12:40	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/27/24 14:59	H3
EPA 353.2	Nitrogen, Nitrate	4.3	mg/L	0.10	04/23/24 23:59	
SM 5310C	Dissolved Organic Carbon	1.9	mg/L	1.0	04/30/24 20:18	
50371215002	MW-17I					
EPA 9056	Chloride	44.4	mg/L	2.5	05/04/24 12:46	
EPA 9056	Fluoride	0.14	mg/L	0.10	05/04/24 12:27	
EPA 9056	Sulfate	37.6	mg/L	0.25	05/04/24 12:27	
EPA 6010	Boron	434	ug/L	100	04/26/24 10:22	
EPA 6010	Calcium	84800	ug/L	1000	04/26/24 10:22	
EPA 6010	Magnesium	21200	ug/L	1000	04/26/24 10:22	
EPA 6010	Potassium	2320	ug/L	1000	04/26/24 10:22	
EPA 6010	Sodium	30400	ug/L	1000	04/26/24 10:22	
EPA 6020	Barium	60.0	ug/L	1.0	04/25/24 23:22	
EPA 903.1	Radium-226	0.318 ± 0.510 (0.882)	pCi/L		05/14/24 13:49	
EPA 904.0	Radium-228	C:NA T:90% 0.965 ± 0.476 (0.854)	pCi/L		05/07/24 11:45	
		C:85% T:83%				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50371215

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50371215002	MW-17I					
Total Radium Calculation	Total Radium	1.28 ± 0.986 (1.74)	pCi/L		05/14/24 16:07	
SM 2320B	Alkalinity, Total as CaCO3	280	mg/L	10.0	04/25/24 15:12	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	259	mg/L	10.0	04/25/24 15:12	
SM 2320B	Alkalinity,Carbonate (CaCO3)	21.2	mg/L	10.0	04/25/24 15:12	
SM 2540C	Total Dissolved Solids	360	mg/L	10.0	04/25/24 12:40	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/27/24 15:01	H3
EPA 353.2	Nitrogen, Nitrate	1.1	mg/L	0.10	04/24/24 00:00	
SM 5310C	Dissolved Organic Carbon	1.2	mg/L	1.0	04/30/24 20:39	
50371215003	MW-17D					
EPA 9056	Chloride	66.4	mg/L	2.5	05/04/24 13:25	
EPA 9056	Sulfate	101	mg/L	2.5	05/04/24 13:25	
EPA 6010	Boron	2480	ug/L	100	04/26/24 10:24	
EPA 6010	Calcium	94800	ug/L	1000	04/26/24 10:24	
EPA 6010	Iron	2260	ug/L	100	04/26/24 10:24	
EPA 6010	Lithium	35.4	ug/L	20.0	04/26/24 10:24	
EPA 6010	Magnesium	25200	ug/L	1000	04/26/24 10:24	
EPA 6010	Manganese	339	ug/L	10.0	04/26/24 10:24	
EPA 6010	Molybdenum	12.6	ug/L	10.0	04/26/24 10:24	
EPA 6010	Potassium	2960	ug/L	1000	04/26/24 10:24	
EPA 6010	Sodium	44400	ug/L	1000	04/26/24 10:24	
EPA 6010	Molybdenum, Dissolved	12.0	ug/L	10.0	04/25/24 23:09	
EPA 6020	Arsenic	5.8	ug/L	1.0	04/25/24 23:26	
EPA 6020	Barium	60.3	ug/L	1.0	04/25/24 23:26	
EPA 903.1	Radium-226	0.587 ± 0.493 (0.705)	pCi/L		05/14/24 13:49	
EPA 904.0	Radium-228	C:NA T:90% 0.693 ± 0.394 (0.720)	pCi/L		05/07/24 11:46	
Total Radium Calculation	Total Radium	C:82% T:83% 1.28 ± 0.887 (1.43)	pCi/L		05/14/24 16:07	
SM 2320B	Alkalinity, Total as CaCO3	322	mg/L	10.0	04/26/24 13:08	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	322	mg/L	10.0	04/26/24 13:08	
SM 2540C	Total Dissolved Solids	477	mg/L	10.0	04/25/24 12:40	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/27/24 15:02	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Sample: MW-17S		Lab ID: 50371215001		Collected: 04/22/24 10:25		Received: 04/22/24 14:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	40.7	mg/L	2.5	0.67	10		05/04/24 12:07	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.017	1		05/04/24 11:48	16984-48-8	
Sulfate	30.0	mg/L	0.25	0.19	1		05/04/24 11:48	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	396	ug/L	100	11.4	1	04/25/24 08:24	04/26/24 10:21	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/25/24 08:24	04/26/24 10:21	7440-43-9	
Calcium	110000	ug/L	1000	56.7	1	04/25/24 08:24	04/26/24 10:21	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/25/24 08:24	04/26/24 10:21	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/25/24 08:24	04/26/24 10:21	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/25/24 08:24	04/26/24 10:21	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/25/24 08:24	04/26/24 10:21	7439-93-2	
Magnesium	22800	ug/L	1000	32.8	1	04/25/24 08:24	04/26/24 10:21	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	04/25/24 08:24	04/26/24 10:21	7439-96-5	
Molybdenum	16.5	ug/L	10.0	1.1	1	04/25/24 08:24	04/26/24 10:21	7439-98-7	
Potassium	3610	ug/L	1000	120	1	04/25/24 08:24	04/26/24 10:21	7440-09-7	
Sodium	24300	ug/L	1000	48.2	1	04/25/24 08:24	04/26/24 10:21	7440-23-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Molybdenum, Dissolved	15.9	ug/L	10.0	0.78	1	04/24/24 20:35	04/25/24 23:07	7439-98-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	1.0	0.26	1	04/24/24 14:45	04/25/24 23:17	7440-36-0	
Arsenic	ND	ug/L	1.0	0.10	1	04/24/24 14:45	04/25/24 23:17	7440-38-2	
Barium	128	ug/L	1.0	0.062	1	04/24/24 14:45	04/25/24 23:17	7440-39-3	
Beryllium	ND	ug/L	0.20	0.020	1	04/24/24 14:45	04/25/24 23:17	7440-41-7	
Cobalt	ND	ug/L	1.0	0.060	1	04/24/24 14:45	04/25/24 23:17	7440-48-4	
Selenium	1.4	ug/L	1.0	0.36	1	04/24/24 14:45	04/25/24 23:17	7782-49-2	
Thallium	ND	ug/L	1.0	0.079	1	04/24/24 14:45	04/25/24 23:17	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	0.12	1	04/30/24 19:47	05/01/24 11:36	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	327	mg/L	10.0	10.0	1		04/25/24 15:12		
Alkalinity,Bicarbonate (CaCO3)	310	mg/L	10.0	10.0	1		04/25/24 15:12		
Alkalinity,Carbonate (CaCO3)	17.6	mg/L	10.0	10.0	1		04/25/24 15:12		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Sample: MW-17S Lab ID: 50371215001 Collected: 04/22/24 10:25 Received: 04/22/24 14:35 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	402	mg/L	10.0	10.0	1		04/25/24 12:40		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	0.10	1		04/27/24 14:59		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	4.3	mg/L	0.10	0.013	1		04/23/24 23:59	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	1.9	mg/L	1.0	0.25	1		04/30/24 20:18		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Sample: MW-17I		Lab ID: 50371215002		Collected: 04/22/24 11:10		Received: 04/22/24 14:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	44.4	mg/L	2.5	0.67	10		05/04/24 12:46	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.017	1		05/04/24 12:27	16984-48-8	
Sulfate	37.6	mg/L	0.25	0.19	1		05/04/24 12:27	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	434	ug/L	100	11.4	1	04/25/24 08:24	04/26/24 10:22	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/25/24 08:24	04/26/24 10:22	7440-43-9	
Calcium	84800	ug/L	1000	56.7	1	04/25/24 08:24	04/26/24 10:22	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/25/24 08:24	04/26/24 10:22	7440-47-3	
Iron	ND	ug/L	100	18.1	1	04/25/24 08:24	04/26/24 10:22	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/25/24 08:24	04/26/24 10:22	7439-92-1	
Lithium	ND	ug/L	20.0	5.1	1	04/25/24 08:24	04/26/24 10:22	7439-93-2	
Magnesium	21200	ug/L	1000	32.8	1	04/25/24 08:24	04/26/24 10:22	7439-95-4	
Manganese	ND	ug/L	10.0	1.1	1	04/25/24 08:24	04/26/24 10:22	7439-96-5	
Molybdenum	ND	ug/L	10.0	1.1	1	04/25/24 08:24	04/26/24 10:22	7439-98-7	
Potassium	2320	ug/L	1000	120	1	04/25/24 08:24	04/26/24 10:22	7440-09-7	
Sodium	30400	ug/L	1000	48.2	1	04/25/24 08:24	04/26/24 10:22	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	ND	ug/L	10.0	0.78	1	04/24/24 20:35	04/25/24 23:08	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.26	1	04/24/24 14:45	04/25/24 23:22	7440-36-0	
Arsenic	ND	ug/L	1.0	0.10	1	04/24/24 14:45	04/25/24 23:22	7440-38-2	
Barium	60.0	ug/L	1.0	0.062	1	04/24/24 14:45	04/25/24 23:22	7440-39-3	
Beryllium	ND	ug/L	0.20	0.020	1	04/24/24 14:45	04/25/24 23:22	7440-41-7	
Cobalt	ND	ug/L	1.0	0.060	1	04/24/24 14:45	04/25/24 23:22	7440-48-4	
Selenium	ND	ug/L	1.0	0.36	1	04/24/24 14:45	04/25/24 23:22	7782-49-2	
Thallium	ND	ug/L	1.0	0.079	1	04/24/24 14:45	04/25/24 23:22	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/30/24 19:47	05/01/24 11:38	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	280	mg/L	10.0	10.0	1		04/25/24 15:12		
Alkalinity,Bicarbonate (CaCO3)	259	mg/L	10.0	10.0	1		04/25/24 15:12		
Alkalinity,Carbonate (CaCO3)	21.2	mg/L	10.0	10.0	1		04/25/24 15:12		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Sample: MW-17I		Lab ID: 50371215002		Collected: 04/22/24 11:10	Received: 04/22/24 14:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	360	mg/L	10.0	10.0	1		04/25/24 12:40		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		04/27/24 15:01		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	1.1	mg/L	0.10	0.013	1		04/24/24 00:00	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.2	mg/L	1.0	0.25	1		04/30/24 20:39		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4
 Pace Project No.: 50371215

Sample: MW-17D **Lab ID: 50371215003** Collected: 04/22/24 12:00 Received: 04/22/24 14:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	66.4	mg/L	2.5	0.67	10		05/04/24 13:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.017	1		05/04/24 13:06	16984-48-8	
Sulfate	101	mg/L	2.5	1.9	10		05/04/24 13:25	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	2480	ug/L	100	11.4	1	04/25/24 08:24	04/26/24 10:24	7440-42-8	
Cadmium	ND	ug/L	2.0	0.74	1	04/25/24 08:24	04/26/24 10:24	7440-43-9	
Calcium	94800	ug/L	1000	56.7	1	04/25/24 08:24	04/26/24 10:24	7440-70-2	
Chromium	ND	ug/L	10.0	1.4	1	04/25/24 08:24	04/26/24 10:24	7440-47-3	
Iron	2260	ug/L	100	18.1	1	04/25/24 08:24	04/26/24 10:24	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/25/24 08:24	04/26/24 10:24	7439-92-1	
Lithium	35.4	ug/L	20.0	5.1	1	04/25/24 08:24	04/26/24 10:24	7439-93-2	
Magnesium	25200	ug/L	1000	32.8	1	04/25/24 08:24	04/26/24 10:24	7439-95-4	
Manganese	339	ug/L	10.0	1.1	1	04/25/24 08:24	04/26/24 10:24	7439-96-5	
Molybdenum	12.6	ug/L	10.0	1.1	1	04/25/24 08:24	04/26/24 10:24	7439-98-7	
Potassium	2960	ug/L	1000	120	1	04/25/24 08:24	04/26/24 10:24	7440-09-7	
Sodium	44400	ug/L	1000	48.2	1	04/25/24 08:24	04/26/24 10:24	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	12.0	ug/L	10.0	0.78	1	04/24/24 20:35	04/25/24 23:09	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.26	1	04/24/24 14:45	04/25/24 23:26	7440-36-0	
Arsenic	5.8	ug/L	1.0	0.10	1	04/24/24 14:45	04/25/24 23:26	7440-38-2	
Barium	60.3	ug/L	1.0	0.062	1	04/24/24 14:45	04/25/24 23:26	7440-39-3	
Beryllium	ND	ug/L	0.20	0.020	1	04/24/24 14:45	04/25/24 23:26	7440-41-7	
Cobalt	ND	ug/L	1.0	0.060	1	04/24/24 14:45	04/25/24 23:26	7440-48-4	
Selenium	ND	ug/L	1.0	0.36	1	04/24/24 14:45	04/25/24 23:26	7782-49-2	
Thallium	ND	ug/L	1.0	0.079	1	04/24/24 14:45	04/25/24 23:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	04/30/24 19:47	05/01/24 11:41	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	322	mg/L	10.0	10.0	1		04/26/24 13:08		
Alkalinity,Bicarbonate (CaCO3)	322	mg/L	10.0	10.0	1		04/26/24 13:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/26/24 13:08		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Sample: MW-17D		Lab ID: 50371215003		Collected: 04/22/24 12:00	Received: 04/22/24 14:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	477	mg/L	10.0	10.0	1		04/25/24 12:40		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.10	1		04/27/24 15:02		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/24/24 00:08	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		04/30/24 21:16		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch:	787370	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215001, 50371215002, 50371215003

METHOD BLANK: 3601898 Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/03/24 09:15	
Fluoride	mg/L	ND	0.10	0.017	05/03/24 09:15	
Sulfate	mg/L	ND	0.25	0.19	05/03/24 09:15	

LABORATORY CONTROL SAMPLE: 3601899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	95	80-120	
Fluoride	mg/L	1	0.92	92	80-120	
Sulfate	mg/L	5	4.7	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3601900 3601901

Parameter	Units	50371236001		3601900		3601901		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	6.6	2.5	2.5	9.1	9.2	99	105	80-120	1	15		
Fluoride	mg/L	0.52	1	1	1.4	1.5	91	93	80-120	2	15		
Sulfate	mg/L	54.9	50	50	103	104	97	97	80-120	0	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch:	787264	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215001, 50371215002, 50371215003

METHOD BLANK: 3601554 Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	05/01/24 10:37	

LABORATORY CONTROL SAMPLE: 3601555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3601556 3601557

Parameter	Units	3601556		3601557		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50370930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	ND	5	5	4.6	4.8	92	97	75-125	4	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch:	786365	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215001, 50371215002, 50371215003

METHOD BLANK: 3597379 Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	11.4	04/26/24 10:12	
Cadmium	ug/L	ND	2.0	0.74	04/26/24 10:12	
Calcium	ug/L	ND	1000	56.7	04/26/24 10:12	
Chromium	ug/L	ND	10.0	1.4	04/26/24 10:12	
Iron	ug/L	ND	100	18.1	04/26/24 10:12	
Lead	ug/L	ND	10.0	4.0	04/26/24 10:12	
Lithium	ug/L	ND	20.0	5.1	04/26/24 10:12	
Magnesium	ug/L	ND	1000	32.8	04/26/24 10:12	
Manganese	ug/L	ND	10.0	1.1	04/26/24 10:12	
Molybdenum	ug/L	ND	10.0	1.1	04/26/24 10:12	
Potassium	ug/L	ND	1000	120	04/26/24 10:12	
Sodium	ug/L	ND	1000	48.2	04/26/24 10:12	

LABORATORY CONTROL SAMPLE: 3597380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	966	97	80-120	
Cadmium	ug/L	1000	954	95	80-120	
Calcium	ug/L	10000	9880	99	80-120	
Chromium	ug/L	1000	979	98	80-120	
Iron	ug/L	10000	9870	99	80-120	
Lead	ug/L	1000	926	93	80-120	
Lithium	ug/L	1000	1010	101	80-120	
Magnesium	ug/L	10000	9710	97	80-120	
Manganese	ug/L	1000	975	97	80-120	
Molybdenum	ug/L	1000	1000	100	80-120	
Potassium	ug/L	10000	9580	96	80-120	
Sodium	ug/L	10000	9530	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597381 3597382

Parameter	Units	3597381		3597382		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	ug/L	170	1000	1130	1120	96	95	75-125	1	20	
Cadmium	ug/L	ND	1000	949	937	95	94	75-125	1	20	
Calcium	ug/L	117000	10000	121000	119000	42	23	75-125	2	20 P6	
Chromium	ug/L	ND	1000	959	944	96	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597381												3597382	
Parameter	Units	50371223001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Iron	ug/L	5170	10000	10000	13800	13900	87	88	75-125	1	20		
Lead	ug/L	ND	1000	1000	890	880	89	88	75-125	1	20		
Lithium	ug/L	ND	1000	1000	995	985	99	98	75-125	1	20		
Magnesium	ug/L	30000	10000	10000	37900	37300	79	74	75-125	1	20	M0	
Manganese	ug/L	93.2	1000	1000	1020	1010	93	92	75-125	1	20		
Molybdenum	ug/L	ND	1000	1000	1010	994	101	99	75-125	1	20		
Potassium	ug/L	4040	10000	10000	13400	13200	93	92	75-125	1	20		
Sodium	ug/L	39200	10000	10000	47000	46300	78	71	75-125	1	20	M0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597383												3597384	
Parameter	Units	50371233013 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Boron	ug/L	500	5000	5000	5240	5140	95	93	75-125	2	20		
Cadmium	ug/L	38.0	5000	5000	4800	4770	95	95	75-125	1	20		
Calcium	ug/L	3040000	50000	50000	2820000	2880000	-433	-321	75-125	2	20	P6	
Chromium	ug/L	752	5000	5000	5190	5020	89	85	75-125	3	20		
Iron	ug/L	3070000	50000	50000	1880000	1060000	-2380	-4030	75-125	56	20	P6, R1	
Lead	ug/L	734	5000	5000	4670	4490	79	75	75-125	4	20		
Lithium	ug/L	486	5000	5000	5390	5270	98	96	75-125	2	20		
Magnesium	ug/L	1030000	50000	50000	845000	803000	-378	-462	75-125	5	20	P6	
Manganese	ug/L	157000	5000	5000	110000	69200	-936	-1760	75-125	46	20	P6, R1	
Molybdenum	ug/L	517	5000	5000	5130	5090	92	92	75-125	1	20		
Potassium	ug/L	72900	50000	50000	109000	94400	72	43	75-125	14	20	M3	
Sodium	ug/L	41000	50000	50000	88900	89400	96	97	75-125	1	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch:	786252	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215001, 50371215002, 50371215003

METHOD BLANK: 3596822 Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/25/24 22:43	

LABORATORY CONTROL SAMPLE: 3596823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	938	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3596824 3596825

Parameter	Units	50371223001		3596825		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Molybdenum, Dissolved	ug/L	ND	1000	1000	917	934	91	93	75-125	2	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch:	786311	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215001, 50371215002, 50371215003

METHOD BLANK: 3597039 Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.26	04/25/24 21:35	
Arsenic	ug/L	ND	1.0	0.10	04/25/24 21:35	
Barium	ug/L	ND	1.0	0.062	04/25/24 21:35	
Beryllium	ug/L	ND	0.20	0.020	04/25/24 21:35	
Cobalt	ug/L	ND	1.0	0.060	04/25/24 21:35	
Selenium	ug/L	ND	1.0	0.36	04/25/24 21:35	
Thallium	ug/L	ND	1.0	0.079	04/25/24 21:35	

LABORATORY CONTROL SAMPLE: 3597040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.8	107	80-120	
Arsenic	ug/L	40	41.9	105	80-120	
Barium	ug/L	40	41.2	103	80-120	
Beryllium	ug/L	40	40.1	100	80-120	
Cobalt	ug/L	40	42.4	106	80-120	
Selenium	ug/L	40	43.2	108	80-120	
Thallium	ug/L	40	39.8	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597041 3597042

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50371245003 Result	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	ND	40	40	43.1	43.7	108	109	75-125	1	20
Arsenic	ug/L	ND	40	40	44.4	45.7	110	113	75-125	3	20 CH
Barium	ug/L	0.012 mg/L	40	40	53.7	54.0	104	105	75-125	0	20
Beryllium	ug/L	ND	40	40	39.7	40.0	99	99	75-125	1	20
Cobalt	ug/L	ND	40	40	39.0	39.1	96	96	75-125	0	20
Selenium	ug/L	ND	40	40	41.3	42.3	103	105	75-125	2	20
Thallium	ug/L	ND	40	40	40.7	41.1	102	103	75-125	1	20

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch: 786636

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215001, 50371215002

METHOD BLANK: 3598508

Matrix: Water

Associated Lab Samples: 50371215001, 50371215002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/25/24 15:12	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/25/24 15:12	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/25/24 15:12	

LABORATORY CONTROL SAMPLE: 3598509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	90-110	

SAMPLE DUPLICATE: 3598510

Parameter	Units	50371089003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	350	356	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	350	356	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3598511

Parameter	Units	50371089004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	198	203	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	188	192	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.8		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch: 786838

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215003

METHOD BLANK: 3599521

Matrix: Water

Associated Lab Samples: 50371215003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/26/24 13:08	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/26/24 13:08	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/26/24 13:08	

LABORATORY CONTROL SAMPLE: 3599522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	90-110	

SAMPLE DUPLICATE: 3599523

Parameter	Units	50371269004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	90.0	91.2	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	90.0	91.2	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3599524

Parameter	Units	50371269005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	ND		20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	ND		20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch:	786614	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215001, 50371215002, 50371215003

METHOD BLANK: 3598441 Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/25/24 12:35	

LABORATORY CONTROL SAMPLE: 3598442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	293	98	80-120	

SAMPLE DUPLICATE: 3598444

Parameter	Units	50371229002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	551000 ug/L	540	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch: 787029

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215001, 50371215002, 50371215003

SAMPLE DUPLICATE: 3600776

Parameter	Units	50371298001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

SAMPLE DUPLICATE: 3600777

Parameter	Units	50371387001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch:	786351	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371215001, 50371215002, 50371215003

METHOD BLANK: 3597296 Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/23/24 23:55	

LABORATORY CONTROL SAMPLE: 3597297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	104	90-110	

MATRIX SPIKE SAMPLE: 3597298

Parameter	Units	50371245005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597299 3597300

Parameter	Units	50371270005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	0.82	0.82	82	82	90-110	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch:	787166	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50371215001, 50371215002, 50371215003		

METHOD BLANK: 3601255 Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/30/24 16:42	

LABORATORY CONTROL SAMPLE: 3601256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3601257 3601258

Parameter	Units	50370854005		3601257		3601258		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Dissolved Organic Carbon	mg/L	11.6	40	40	52.9	52.4	103	102	80-120	1	20

MATRIX SPIKE SAMPLE: 3601259

Parameter	Units	50371215001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.9	10	10.9	90	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Sample: MW-17S **Lab ID: 50371215001** Collected: 04/22/24 10:25 Received: 04/22/24 14:35 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0573 ± 0.515 (0.998) C:NA T:86%	pCi/L	05/14/24 13:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.739 ± 0.404 (0.732) C:83% T:87%	pCi/L	05/07/24 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.796 ± 0.919 (1.73)	pCi/L	05/14/24 16:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Sample: MW-171 **Lab ID: 50371215002** Collected: 04/22/24 11:10 Received: 04/22/24 14:35 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.318 ± 0.510 (0.882) C:NA T:90%	pCi/L	05/14/24 13:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.965 ± 0.476 (0.854) C:85% T:83%	pCi/L	05/07/24 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.28 ± 0.986 (1.74)	pCi/L	05/14/24 16:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Sample: MW-17D **Lab ID: 50371215003** Collected: 04/22/24 12:00 Received: 04/22/24 14:35 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.587 ± 0.493 (0.705) C:NA T:90%	pCi/L	05/14/24 13:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.693 ± 0.394 (0.720) C:82% T:83%	pCi/L	05/07/24 11:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.28 ± 0.887 (1.43)	pCi/L	05/14/24 16:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch: 664528

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: 50371215001, 50371215002, 50371215003

METHOD BLANK: 3235496

Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.250 ± 0.233 (0.307) C:NA T:91%	pCi/L	05/14/24 13:23	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

QC Batch: 664529

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: 50371215001, 50371215002, 50371215003

METHOD BLANK: 3235497

Matrix: Water

Associated Lab Samples: 50371215001, 50371215002, 50371215003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0769 ± 0.279 (0.633) C:83% T:86%	pCi/L	05/07/24 11:25	

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

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QUALIFIERS

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R4

Pace Project No.: 50371215

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50371215001	MW-17S	EPA 9056	787370		
50371215002	MW-17I	EPA 9056	787370		
50371215003	MW-17D	EPA 9056	787370		
50371215001	MW-17S	EPA 3010	786365	EPA 6010	786822
50371215002	MW-17I	EPA 3010	786365	EPA 6010	786822
50371215003	MW-17D	EPA 3010	786365	EPA 6010	786822
50371215001	MW-17S	EPA 3010	786252	EPA 6010	786787
50371215002	MW-17I	EPA 3010	786252	EPA 6010	786787
50371215003	MW-17D	EPA 3010	786252	EPA 6010	786787
50371215001	MW-17S	EPA 200.2	786311	EPA 6020	786579
50371215002	MW-17I	EPA 200.2	786311	EPA 6020	786579
50371215003	MW-17D	EPA 200.2	786311	EPA 6020	786579
50371215001	MW-17S	EPA 7470	787264	EPA 7470	787515
50371215002	MW-17I	EPA 7470	787264	EPA 7470	787515
50371215003	MW-17D	EPA 7470	787264	EPA 7470	787515
50371215001	MW-17S	EPA 903.1	664528		
50371215002	MW-17I	EPA 903.1	664528		
50371215003	MW-17D	EPA 903.1	664528		
50371215001	MW-17S	EPA 904.0	664529		
50371215002	MW-17I	EPA 904.0	664529		
50371215003	MW-17D	EPA 904.0	664529		
50371215001	MW-17S	Total Radium Calculation	668648		
50371215002	MW-17I	Total Radium Calculation	668648		
50371215003	MW-17D	Total Radium Calculation	668648		
50371215001	MW-17S	SM 2320B	786636		
50371215002	MW-17I	SM 2320B	786636		
50371215003	MW-17D	SM 2320B	786838		
50371215001	MW-17S	SM 2540C	786614		
50371215002	MW-17I	SM 2540C	786614		
50371215003	MW-17D	SM 2540C	786614		
50371215001	MW-17S	SM 4500-H+B	787029		
50371215002	MW-17I	SM 4500-H+B	787029		
50371215003	MW-17D	SM 4500-H+B	787029		
50371215001	MW-17S	EPA 353.2	786351		
50371215002	MW-17I	EPA 353.2	786351		
50371215003	MW-17D	EPA 353.2	786351		
50371215001	MW-17S	SM 5310C	787166		
50371215002	MW-17I	SM 5310C	787166		
50371215003	MW-17D	SM 5310C	787166		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Doc

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com>

WO#: 50371215



50371215

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Atlas Indianapolis	Report To: Mark Breting	Attention: Accounts Payable - Paula Sedam			
Address: 7988 Centerpoint Drive	Copy To:	Company Name: Atlas Indianapolis			
Suite 100, Indianapolis, IN 46256		Address:			
Email: mark.breting@oneatlas.com	Purchase Order #:	Pace Quote:	Regulatory Agency		
Phone: 317-313-8306 Fax:	Project Name: Eagle Valley April 2024	Pace Project Manager: will.statz@pacelabs.com	State / Location		
Requested Due Date:	Project #: PIRU	Pace Profile #: 10498/56	IN		

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives							Analyses Test Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)				
						START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	Tot. Metals 6010/6020/7470	Dis metals by 6010	TDS by 2540C	DOC by 5310	Alkalinity / pH / Ferrous Fe		Nitrate by 353.2	C. F. SO4 by 9056	Rad 226/228 + SUM to Pitt	
1	MW-17S	WT	G	WT	G	4/22/24	1025			8	3	1	4								X	X	X	X	X	X	X			
2	MW-17I	WT	G	WT	G	4/22/24	1100			8	3	1	4								X	X	X	X	X	X	X			
3	MW-17D	WT	G	WT	G	4/22/24	1200			8	3	1	4								X	X	X	X	X	X	X			
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NO2/NO3 has a SH time of 48 hours	Keegan Lowhead / AMOS	4/22/24	1435	<i>[Signature]</i>	4/22/24	1435	1.1	Y	N	Y
6020 - Be, Co, As, Se, Sb, Ba, Tl (7)										
6010 - B, Cd, Cr, Fe, Pb, Mn, Mo, Ca, Mg, Na, K, Li (12), 7470										
6010 Dis - Mo										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Keegan Lowhead						
SIGNATURE of SAMPLER: <i>[Signature]</i>						
DATE Signed: 4/22/24						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: LR 4/22/24 1535

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**

4. Cooler Temperature(s): 1.2/1.1
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.	<input checked="" type="checkbox"/>		
Short Hold Time Analysis (48 hours or less)? Analysis: <u>NO₃</u>	<input checked="" type="checkbox"/>		Circle: <u>HNO₃</u> (>2) <u>H₂SO₄</u> (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u> <input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	MeOH (only)			VIALS			AMBER GLASS					PLASTIC							OTHER		Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc											
		SBS	DI	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U		BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black			
1															1			1		1													3	1	1		
2																																					
3															1																						
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					

Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Miscellaneous	
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		
I	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		
WGUFU	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	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		
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 Solid						
OL:	Oil						
NAL	Non-aqueous liquid						
WP	Wipe						



June 25, 2024

Mr. Mark Breting
ATC Group Services
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50371295

Dear Mr. Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

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

Sincerely,

Will Statz
will.statz@pacelabs.com
(317)228-3105
Project Manager

Enclosures

cc: Mohammed Bazlamit, Atlas
Mr. Robert Miller, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50371295

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Eagle Valley April 2024 P1R2
Pace Project No.: 50371295

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50371295001	MW-25S	Water	04/23/24 12:35	04/23/24 16:52
50371295002	MW-25I	Water	04/23/24 11:30	04/23/24 16:52
50371295003	MW-25D	Water	04/23/24 10:25	04/23/24 16:52
50371295004	Dup-6	Water	04/23/24 08:00	04/23/24 16:52

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50371295001	MW-25S	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	MTM	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		50371295002	MW-25I	EPA 9056	KBB
EPA 6010	JPK			12	PASI-I
EPA 6010	JPK			1	PASI-I
EPA 6020	MTM			7	PASI-I
EPA 7470	ILP			1	PASI-I
EPA 903.1	LL1			1	PASI-PA
EPA 904.0	ZPC			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2320B	DAW			3	PASI-I
SM 2540C	SL			1	PASI-I
SM 4500-H+B	LHZ			1	PASI-I
EPA 353.2	DAW			1	PASI-I
SM 5310C	YAM			1	PASI-I
50371295003	MW-25D			EPA 9056	KBB
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	MTM	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50371295004	Dup-6	EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	12	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 6020	MTM	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2320B	DAW	3	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 353.2	DAW	1	PASI-I
		SM 5310C	YAM	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50371295001	MW-25S					
EPA 9056	Chloride	115	mg/L	2.5	05/02/24 21:01	
EPA 9056	Fluoride	0.30	mg/L	0.10	05/02/24 20:42	
EPA 9056	Sulfate	92.8	mg/L	2.5	05/02/24 21:01	
EPA 6010	Boron	312	ug/L	100	05/01/24 01:26	
EPA 6010	Calcium	94000	ug/L	1000	05/01/24 01:26	
EPA 6010	Iron	407	ug/L	100	05/01/24 01:26	
EPA 6010	Lithium	58.4	ug/L	20.0	05/01/24 01:26	
EPA 6010	Magnesium	25200	ug/L	1000	05/01/24 01:26	
EPA 6010	Manganese	704	ug/L	10.0	05/01/24 01:26	
EPA 6010	Molybdenum	50.6	ug/L	10.0	05/01/24 01:26	
EPA 6010	Potassium	6830	ug/L	1000	05/01/24 01:26	
EPA 6010	Sodium	73900	ug/L	1000	05/01/24 01:26	
EPA 6010	Molybdenum, Dissolved	47.0	ug/L	10.0	04/27/24 01:47	
EPA 6020	Arsenic	1.2	ug/L	1.0	04/27/24 02:13	
EPA 6020	Barium	105	ug/L	1.0	04/27/24 02:13	
EPA 903.1	Radium-226	0.605 ± 0.675	pCi/L		05/13/24 14:39	
		(1.10) C:NA T:84%				
EPA 904.0	Radium-228	0.672 ± 0.502 (0.976) C:79% T:67%	pCi/L		05/07/24 14:03	
Total Radium Calculation	Total Radium	1.28 ± 1.18 (2.08)	pCi/L		05/14/24 16:13	
SM 2320B	Alkalinity, Total as CaCO3	252	mg/L	10.0	04/25/24 20:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	252	mg/L	10.0	04/25/24 20:23	
SM 2540C	Total Dissolved Solids	524	mg/L	10.0	04/26/24 11:22	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/29/24 16:50	H3
SM 5310C	Dissolved Organic Carbon	1.3	mg/L	1.0	04/30/24 21:59	
50371295002	MW-25I					
EPA 9056	Chloride	94.3	mg/L	2.5	05/02/24 22:19	
EPA 9056	Fluoride	0.12	mg/L	0.10	05/02/24 22:00	
EPA 9056	Sulfate	77.3	mg/L	2.5	05/02/24 22:19	
EPA 6010	Boron	1070	ug/L	100	05/01/24 01:33	
EPA 6010	Calcium	74000	ug/L	1000	05/01/24 01:33	
EPA 6010	Iron	786	ug/L	100	05/01/24 01:33	
EPA 6010	Lithium	80.7	ug/L	20.0	05/01/24 01:33	
EPA 6010	Magnesium	19700	ug/L	1000	05/01/24 01:33	
EPA 6010	Manganese	196	ug/L	10.0	05/01/24 01:33	
EPA 6010	Molybdenum	145	ug/L	10.0	05/01/24 01:33	
EPA 6010	Potassium	6610	ug/L	1000	05/01/24 01:33	
EPA 6010	Sodium	77300	ug/L	1000	05/01/24 01:33	
EPA 6010	Molybdenum, Dissolved	138	ug/L	10.0	04/27/24 01:40	
EPA 6020	Arsenic	1.5	ug/L	1.0	04/27/24 02:17	
EPA 6020	Barium	70.8	ug/L	1.0	04/27/24 02:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50371295002	MW-25I					
EPA 903.1	Radium-226	0.982 ± 0.907 (1.44) C:NA T:88%	pCi/L		05/13/24 14:39	
EPA 904.0	Radium-228	0.696 ± 0.445 (0.824) C:83% T:70%	pCi/L		05/07/24 14:03	
Total Radium Calculation	Total Radium	1.68 ± 1.35 (2.26)	pCi/L		05/14/24 16:13	
SM 2320B	Alkalinity, Total as CaCO3	226	mg/L	10.0	04/25/24 20:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	211	mg/L	10.0	04/25/24 20:23	
SM 2320B	Alkalinity,Carbonate (CaCO3)	14.8	mg/L	10.0	04/25/24 20:23	
SM 2540C	Total Dissolved Solids	446	mg/L	10.0	04/26/24 11:22	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/29/24 16:51	H3
SM 5310C	Dissolved Organic Carbon	1.1	mg/L	1.0	05/07/24 17:26	
50371295003	MW-25D					
EPA 9056	Chloride	91.7	mg/L	2.5	05/02/24 23:17	
EPA 9056	Fluoride	0.11	mg/L	0.10	05/02/24 22:58	
EPA 9056	Sulfate	77.3	mg/L	2.5	05/02/24 23:17	
EPA 6010	Boron	1350	ug/L	100	05/01/24 01:35	
EPA 6010	Calcium	76100	ug/L	1000	05/01/24 01:35	
EPA 6010	Iron	1430	ug/L	100	05/01/24 01:35	
EPA 6010	Lithium	70.7	ug/L	20.0	05/01/24 01:35	
EPA 6010	Magnesium	15900	ug/L	1000	05/01/24 01:35	
EPA 6010	Manganese	110	ug/L	10.0	05/01/24 01:35	
EPA 6010	Molybdenum	183	ug/L	10.0	05/01/24 01:35	
EPA 6010	Potassium	3900	ug/L	1000	05/01/24 01:35	
EPA 6010	Sodium	81600	ug/L	1000	05/01/24 01:35	
EPA 6010	Molybdenum, Dissolved	171	ug/L	10.0	04/27/24 01:42	
EPA 6020	Arsenic	1.1	ug/L	1.0	04/27/24 02:21	
EPA 6020	Barium	53.8	ug/L	1.0	04/27/24 02:21	
EPA 903.1	Radium-226	0.702 ± 0.765 (1.24) C:NA T:90%	pCi/L		05/13/24 14:39	
EPA 904.0	Radium-228	0.199 ± 0.414 (0.916) C:81% T:67%	pCi/L		05/07/24 14:03	
Total Radium Calculation	Total Radium	0.901 ± 1.18 (2.16)	pCi/L		05/14/24 16:13	
SM 2320B	Alkalinity, Total as CaCO3	225	mg/L	10.0	04/25/24 20:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	211	mg/L	10.0	04/25/24 20:23	
SM 2320B	Alkalinity,Carbonate (CaCO3)	14.4	mg/L	10.0	04/25/24 20:23	
SM 2540C	Total Dissolved Solids	456	mg/L	10.0	04/26/24 11:23	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/29/24 16:51	H3

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SUMMARY OF DETECTION

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50371295004	Dup-6					
EPA 9056	Chloride	91.0	mg/L	2.5	05/02/24 23:56	
EPA 9056	Fluoride	0.11	mg/L	0.10	05/02/24 23:37	
EPA 9056	Sulfate	77.0	mg/L	2.5	05/02/24 23:56	
EPA 6010	Boron	1340	ug/L	100	05/01/24 01:39	
EPA 6010	Calcium	75500	ug/L	1000	05/01/24 01:39	
EPA 6010	Iron	1420	ug/L	100	05/01/24 01:39	
EPA 6010	Lithium	68.7	ug/L	20.0	05/01/24 01:39	
EPA 6010	Magnesium	15800	ug/L	1000	05/01/24 01:39	
EPA 6010	Manganese	109	ug/L	10.0	05/01/24 01:39	
EPA 6010	Molybdenum	183	ug/L	10.0	05/01/24 01:39	
EPA 6010	Potassium	3870	ug/L	1000	05/01/24 01:39	
EPA 6010	Sodium	81200	ug/L	1000	05/01/24 01:39	
EPA 6010	Molybdenum, Dissolved	174	ug/L	10.0	04/27/24 01:54	
EPA 6020	Arsenic	1.1	ug/L	1.0	04/27/24 02:25	
EPA 6020	Barium	54.3	ug/L	1.0	04/27/24 02:25	
EPA 903.1	Radium-226	0.976 ± 0.824 (1.27) C:NA T:84%	pCi/L		05/13/24 14:39	
EPA 904.0	Radium-228	0.691 ± 0.395 (0.707) C:83% T:77%	pCi/L		05/07/24 14:04	
Total Radium Calculation	Total Radium	1.67 ± 1.22 (1.98)	pCi/L		05/14/24 16:13	
SM 2320B	Alkalinity, Total as CaCO3	226	mg/L	10.0	04/25/24 20:23	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	207	mg/L	10.0	04/25/24 20:23	
SM 2320B	Alkalinity,Carbonate (CaCO3)	19.2	mg/L	10.0	04/25/24 20:23	
SM 2540C	Total Dissolved Solids	453	mg/L	10.0	04/26/24 11:23	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/29/24 16:52	H3

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: MW-25S **Lab ID: 50371295001** Collected: 04/23/24 12:35 Received: 04/23/24 16:52 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	115	mg/L	2.5	0.67	10		05/02/24 21:01	16887-00-6	
Fluoride	0.30	mg/L	0.10	0.017	1		05/02/24 20:42	16984-48-8	
Sulfate	92.8	mg/L	2.5	1.9	10		05/02/24 21:01	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	312	ug/L	100	6.2	1	04/27/24 08:22	05/01/24 01:26	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/27/24 08:22	05/01/24 01:26	7440-43-9	
Calcium	94000	ug/L	1000	67.7	1	04/27/24 08:22	05/01/24 01:26	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/27/24 08:22	05/01/24 01:26	7440-47-3	
Iron	407	ug/L	100	30.0	1	04/27/24 08:22	05/01/24 01:26	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/27/24 08:22	05/01/24 01:26	7439-92-1	
Lithium	58.4	ug/L	20.0	6.8	1	04/27/24 08:22	05/01/24 01:26	7439-93-2	
Magnesium	25200	ug/L	1000	33.6	1	04/27/24 08:22	05/01/24 01:26	7439-95-4	
Manganese	704	ug/L	10.0	1.8	1	04/27/24 08:22	05/01/24 01:26	7439-96-5	
Molybdenum	50.6	ug/L	10.0	0.78	1	04/27/24 08:22	05/01/24 01:26	7439-98-7	
Potassium	6830	ug/L	1000	97.8	1	04/27/24 08:22	05/01/24 01:26	7440-09-7	
Sodium	73900	ug/L	1000	54.8	1	04/27/24 08:22	05/01/24 01:26	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	47.0	ug/L	10.0	0.78	1	04/26/24 07:52	04/27/24 01:47	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.26	1	04/26/24 15:25	04/27/24 02:13	7440-36-0	
Arsenic	1.2	ug/L	1.0	0.10	1	04/26/24 15:25	04/27/24 02:13	7440-38-2	
Barium	105	ug/L	1.0	0.062	1	04/26/24 15:25	04/27/24 02:13	7440-39-3	
Beryllium	ND	ug/L	0.20	0.020	1	04/26/24 15:25	04/27/24 02:13	7440-41-7	
Cobalt	ND	ug/L	1.0	0.060	1	04/26/24 15:25	04/27/24 02:13	7440-48-4	
Selenium	ND	ug/L	1.0	0.36	1	04/26/24 15:25	04/27/24 02:13	7782-49-2	
Thallium	ND	ug/L	1.0	0.079	1	04/26/24 15:25	04/27/24 02:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	05/02/24 10:32	05/03/24 09:56	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	252	mg/L	10.0	10.0	1		04/25/24 20:23		
Alkalinity,Bicarbonate (CaCO3)	252	mg/L	10.0	10.0	1		04/25/24 20:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	10.0	1		04/25/24 20:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: MW-25S		Lab ID: 50371295001		Collected: 04/23/24 12:35	Received: 04/23/24 16:52	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	524	mg/L	10.0	10.0	1		04/26/24 11:22		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/29/24 16:50		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/24/24 01:04	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.3	mg/L	1.0	0.25	1		04/30/24 21:59		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: MW-25I **Lab ID: 50371295002** Collected: 04/23/24 11:30 Received: 04/23/24 16:52 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	94.3	mg/L	2.5	0.67	10		05/02/24 22:19	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.017	1		05/02/24 22:00	16984-48-8	
Sulfate	77.3	mg/L	2.5	1.9	10		05/02/24 22:19	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	1070	ug/L	100	6.2	1	04/27/24 08:22	05/01/24 01:33	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/27/24 08:22	05/01/24 01:33	7440-43-9	
Calcium	74000	ug/L	1000	67.7	1	04/27/24 08:22	05/01/24 01:33	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/27/24 08:22	05/01/24 01:33	7440-47-3	
Iron	786	ug/L	100	30.0	1	04/27/24 08:22	05/01/24 01:33	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/27/24 08:22	05/01/24 01:33	7439-92-1	
Lithium	80.7	ug/L	20.0	6.8	1	04/27/24 08:22	05/01/24 01:33	7439-93-2	
Magnesium	19700	ug/L	1000	33.6	1	04/27/24 08:22	05/01/24 01:33	7439-95-4	
Manganese	196	ug/L	10.0	1.8	1	04/27/24 08:22	05/01/24 01:33	7439-96-5	
Molybdenum	145	ug/L	10.0	0.78	1	04/27/24 08:22	05/01/24 01:33	7439-98-7	
Potassium	6610	ug/L	1000	97.8	1	04/27/24 08:22	05/01/24 01:33	7440-09-7	
Sodium	77300	ug/L	1000	54.8	1	04/27/24 08:22	05/01/24 01:33	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	138	ug/L	10.0	0.78	1	04/26/24 07:52	04/27/24 01:40	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.26	1	04/26/24 15:25	04/27/24 02:17	7440-36-0	
Arsenic	1.5	ug/L	1.0	0.10	1	04/26/24 15:25	04/27/24 02:17	7440-38-2	
Barium	70.8	ug/L	1.0	0.062	1	04/26/24 15:25	04/27/24 02:17	7440-39-3	
Beryllium	ND	ug/L	0.20	0.020	1	04/26/24 15:25	04/27/24 02:17	7440-41-7	
Cobalt	ND	ug/L	1.0	0.060	1	04/26/24 15:25	04/27/24 02:17	7440-48-4	
Selenium	ND	ug/L	1.0	0.36	1	04/26/24 15:25	04/27/24 02:17	7782-49-2	
Thallium	ND	ug/L	1.0	0.079	1	04/26/24 15:25	04/27/24 02:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	05/02/24 10:32	05/03/24 09:58	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	226	mg/L	10.0	10.0	1		04/25/24 20:23		
Alkalinity,Bicarbonate (CaCO3)	211	mg/L	10.0	10.0	1		04/25/24 20:23		
Alkalinity,Carbonate (CaCO3)	14.8	mg/L	10.0	10.0	1		04/25/24 20:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: MW-25I		Lab ID: 50371295002		Collected: 04/23/24 11:30	Received: 04/23/24 16:52	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	446	mg/L	10.0	10.0	1		04/26/24 11:22		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/29/24 16:51		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/24/24 01:02	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	1.1	mg/L	1.0	0.25	1		05/07/24 17:26		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: MW-25D **Lab ID: 50371295003** Collected: 04/23/24 10:25 Received: 04/23/24 16:52 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	91.7	mg/L	2.5	0.67	10		05/02/24 23:17	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.017	1		05/02/24 22:58	16984-48-8	
Sulfate	77.3	mg/L	2.5	1.9	10		05/02/24 23:17	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	1350	ug/L	100	6.2	1	04/27/24 08:22	05/01/24 01:35	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/27/24 08:22	05/01/24 01:35	7440-43-9	
Calcium	76100	ug/L	1000	67.7	1	04/27/24 08:22	05/01/24 01:35	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/27/24 08:22	05/01/24 01:35	7440-47-3	
Iron	1430	ug/L	100	30.0	1	04/27/24 08:22	05/01/24 01:35	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/27/24 08:22	05/01/24 01:35	7439-92-1	
Lithium	70.7	ug/L	20.0	6.8	1	04/27/24 08:22	05/01/24 01:35	7439-93-2	
Magnesium	15900	ug/L	1000	33.6	1	04/27/24 08:22	05/01/24 01:35	7439-95-4	
Manganese	110	ug/L	10.0	1.8	1	04/27/24 08:22	05/01/24 01:35	7439-96-5	
Molybdenum	183	ug/L	10.0	0.78	1	04/27/24 08:22	05/01/24 01:35	7439-98-7	
Potassium	3900	ug/L	1000	97.8	1	04/27/24 08:22	05/01/24 01:35	7440-09-7	
Sodium	81600	ug/L	1000	54.8	1	04/27/24 08:22	05/01/24 01:35	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	171	ug/L	10.0	0.78	1	04/26/24 07:52	04/27/24 01:42	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.26	1	04/26/24 15:25	04/27/24 02:21	7440-36-0	
Arsenic	1.1	ug/L	1.0	0.10	1	04/26/24 15:25	04/27/24 02:21	7440-38-2	
Barium	53.8	ug/L	1.0	0.062	1	04/26/24 15:25	04/27/24 02:21	7440-39-3	
Beryllium	ND	ug/L	0.20	0.020	1	04/26/24 15:25	04/27/24 02:21	7440-41-7	
Cobalt	ND	ug/L	1.0	0.060	1	04/26/24 15:25	04/27/24 02:21	7440-48-4	
Selenium	ND	ug/L	1.0	0.36	1	04/26/24 15:25	04/27/24 02:21	7782-49-2	
Thallium	ND	ug/L	1.0	0.079	1	04/26/24 15:25	04/27/24 02:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	05/02/24 10:32	05/03/24 10:01	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	225	mg/L	10.0	10.0	1		04/25/24 20:23		
Alkalinity,Bicarbonate (CaCO3)	211	mg/L	10.0	10.0	1		04/25/24 20:23		
Alkalinity,Carbonate (CaCO3)	14.4	mg/L	10.0	10.0	1		04/25/24 20:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: MW-25D Lab ID: 50371295003 Collected: 04/23/24 10:25 Received: 04/23/24 16:52 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Indianapolis									
Total Dissolved Solids	456	mg/L	10.0	10.0	1		04/26/24 11:23		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	0.10	1		04/29/24 16:51		H3
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis									
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/24/24 00:54	14797-55-8	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Indianapolis									
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		05/07/24 18:05		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: Dup-6 **Lab ID: 50371295004** Collected: 04/23/24 08:00 Received: 04/23/24 16:52 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Chloride	91.0	mg/L	2.5	0.67	10		05/02/24 23:56	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.017	1		05/02/24 23:37	16984-48-8	
Sulfate	77.0	mg/L	2.5	1.9	10		05/02/24 23:56	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Boron	1340	ug/L	100	6.2	1	04/27/24 08:22	05/01/24 01:39	7440-42-8	
Cadmium	ND	ug/L	2.0	0.60	1	04/27/24 08:22	05/01/24 01:39	7440-43-9	
Calcium	75500	ug/L	1000	67.7	1	04/27/24 08:22	05/01/24 01:39	7440-70-2	
Chromium	ND	ug/L	10.0	0.42	1	04/27/24 08:22	05/01/24 01:39	7440-47-3	
Iron	1420	ug/L	100	30.0	1	04/27/24 08:22	05/01/24 01:39	7439-89-6	
Lead	ND	ug/L	10.0	2.5	1	04/27/24 08:22	05/01/24 01:39	7439-92-1	
Lithium	68.7	ug/L	20.0	6.8	1	04/27/24 08:22	05/01/24 01:39	7439-93-2	
Magnesium	15800	ug/L	1000	33.6	1	04/27/24 08:22	05/01/24 01:39	7439-95-4	
Manganese	109	ug/L	10.0	1.8	1	04/27/24 08:22	05/01/24 01:39	7439-96-5	
Molybdenum	183	ug/L	10.0	0.78	1	04/27/24 08:22	05/01/24 01:39	7439-98-7	
Potassium	3870	ug/L	1000	97.8	1	04/27/24 08:22	05/01/24 01:39	7440-09-7	
Sodium	81200	ug/L	1000	54.8	1	04/27/24 08:22	05/01/24 01:39	7440-23-5	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Indianapolis									
Molybdenum, Dissolved	174	ug/L	10.0	0.78	1	04/26/24 07:52	04/27/24 01:54	7439-98-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Pace Analytical Services - Indianapolis									
Antimony	ND	ug/L	1.0	0.26	1	04/26/24 15:25	04/27/24 02:25	7440-36-0	
Arsenic	1.1	ug/L	1.0	0.10	1	04/26/24 15:25	04/27/24 02:25	7440-38-2	
Barium	54.3	ug/L	1.0	0.062	1	04/26/24 15:25	04/27/24 02:25	7440-39-3	
Beryllium	ND	ug/L	0.20	0.020	1	04/26/24 15:25	04/27/24 02:25	7440-41-7	
Cobalt	ND	ug/L	1.0	0.060	1	04/26/24 15:25	04/27/24 02:25	7440-48-4	
Selenium	ND	ug/L	1.0	0.36	1	04/26/24 15:25	04/27/24 02:25	7782-49-2	
Thallium	ND	ug/L	1.0	0.079	1	04/26/24 15:25	04/27/24 02:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	0.12	1	05/02/24 10:32	05/03/24 10:03	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Indianapolis									
Alkalinity, Total as CaCO3	226	mg/L	10.0	10.0	1		04/25/24 20:23		
Alkalinity,Bicarbonate (CaCO3)	207	mg/L	10.0	10.0	1		04/25/24 20:23		
Alkalinity,Carbonate (CaCO3)	19.2	mg/L	10.0	10.0	1		04/25/24 20:23		

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ANALYTICAL RESULTS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: Dup-6		Lab ID: 50371295004		Collected: 04/23/24 08:00	Received: 04/23/24 16:52	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	453	mg/L	10.0	10.0	1		04/26/24 11:23		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	0.10	1		04/29/24 16:52		H3
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	0.013	1		04/24/24 00:45	14797-55-8	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Indianapolis							
Dissolved Organic Carbon	ND	mg/L	1.0	0.25	1		05/07/24 18:31		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch:	787373	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

METHOD BLANK: 3601903 Matrix: Water

Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/04/24 11:09	
Fluoride	mg/L	ND	0.10	0.017	05/04/24 11:09	
Sulfate	mg/L	ND	0.25	0.19	05/04/24 11:09	

LABORATORY CONTROL SAMPLE: 3601904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	94	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3601905 3601906

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50371276001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.3	2.5	2.5	7.2	7.3	79	80	80-120	1	15	M0	
Fluoride	mg/L	ND	1	1	1.0	1.0	96	97	80-120	0	15		
Sulfate	mg/L	9.4	5	5	13.7	13.9	86	90	80-120	1	15		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch:	787716	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50371295001, 50371295002, 50371295003, 50371295004		

METHOD BLANK: 3603281 Matrix: Water
 Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	05/03/24 09:12	

LABORATORY CONTROL SAMPLE: 3603282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3603283 3603284

Parameter	Units	50371331005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.8	93	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch:	786516	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

METHOD BLANK: 3597911 Matrix: Water

Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	ND	100	6.2	05/01/24 01:22	
Cadmium	ug/L	ND	2.0	0.60	05/01/24 01:22	
Calcium	ug/L	ND	1000	67.7	05/01/24 01:22	
Chromium	ug/L	ND	10.0	0.42	05/01/24 01:22	
Iron	ug/L	ND	100	30.0	05/01/24 01:22	
Lead	ug/L	ND	10.0	2.5	05/01/24 01:22	
Lithium	ug/L	ND	20.0	6.8	05/01/24 01:22	
Magnesium	ug/L	ND	1000	33.6	05/01/24 01:22	
Manganese	ug/L	ND	10.0	1.8	05/01/24 01:22	
Molybdenum	ug/L	ND	10.0	0.78	05/01/24 01:22	
Potassium	ug/L	ND	1000	97.8	05/01/24 01:22	
Sodium	ug/L	ND	1000	54.8	05/01/24 01:22	

LABORATORY CONTROL SAMPLE: 3597912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	983	98	80-120	
Cadmium	ug/L	1000	995	100	80-120	
Calcium	ug/L	10000	10200	102	80-120	
Chromium	ug/L	1000	1020	102	80-120	
Iron	ug/L	10000	9840	98	80-120	
Lead	ug/L	1000	979	98	80-120	
Lithium	ug/L	1000	998	100	80-120	
Magnesium	ug/L	10000	9900	99	80-120	
Manganese	ug/L	1000	1020	102	80-120	
Molybdenum	ug/L	1000	1030	103	80-120	
Potassium	ug/L	10000	10000	100	80-120	
Sodium	ug/L	10000	9870	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597913 3597914

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50371295001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Boron	ug/L	312	1000	1000	1340	1330	103	102	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	1030	1010	103	101	75-125	2	20	
Calcium	ug/L	94000	10000	10000	103000	102000	90	80	75-125	1	20	
Chromium	ug/L	ND	1000	1000	1030	1020	103	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597913 3597914												
Parameter	Units	50371295001		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Iron	ug/L	407	10000	10000	10300	10200	99	98	75-125	2	20	
Lead	ug/L	ND	1000	1000	975	957	97	96	75-125	2	20	
Lithium	ug/L	58.4	1000	1000	1080	1060	102	100	75-125	1	20	
Magnesium	ug/L	25200	10000	10000	34700	34400	96	92	75-125	1	20	
Manganese	ug/L	704	1000	1000	1720	1700	102	99	75-125	1	20	
Molybdenum	ug/L	50.6	1000	1000	1120	1100	107	105	75-125	2	20	
Potassium	ug/L	6830	10000	10000	17100	16900	103	101	75-125	1	20	
Sodium	ug/L	73900	10000	10000	83300	82400	93	85	75-125	1	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch:	786628	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50371295001, 50371295002, 50371295003, 50371295004		

METHOD BLANK: 3598480 Matrix: Water
 Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Molybdenum, Dissolved	ug/L	ND	10.0	0.78	04/27/24 01:29	

LABORATORY CONTROL SAMPLE: 3598481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	1000	962	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3598482 3598483

Parameter	Units	50371295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum, Dissolved	ug/L	47.0	1000	1000	991	995	94	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch:	786734	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

METHOD BLANK: 3598894 Matrix: Water

Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.26	04/27/24 01:21	
Arsenic	ug/L	ND	1.0	0.10	04/27/24 01:21	
Barium	ug/L	ND	1.0	0.062	04/27/24 01:21	
Beryllium	ug/L	ND	0.20	0.020	04/27/24 01:21	
Cobalt	ug/L	ND	1.0	0.060	04/27/24 01:21	
Selenium	ug/L	ND	1.0	0.36	04/27/24 01:21	
Thallium	ug/L	ND	1.0	0.079	04/27/24 01:21	

LABORATORY CONTROL SAMPLE: 3598895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.8	105	80-120	
Arsenic	ug/L	40	39.8	99	80-120	
Barium	ug/L	40	39.1	98	80-120	
Beryllium	ug/L	40	39.3	98	80-120	
Cobalt	ug/L	40	42.1	105	80-120	
Selenium	ug/L	40	40.1	100	80-120	
Thallium	ug/L	40	39.8	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3598896 3598897

Parameter	Units	50371312010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Antimony	ug/L	<0.0020 mg/L	40	40	42.9	43.5	107	109	75-125	1	20		
Arsenic	ug/L	0.025 mg/L	40	40	63.8	65.2	97	100	75-125	2	20		
Barium	ug/L	0.20 mg/L	40	40	237	240	99	105	75-125	1	20	E	
Beryllium	ug/L	<0.0010 mg/L	40	40	39.2	39.8	98	99	75-125	1	20		
Cobalt	ug/L	<0.0010 mg/L	40	40	38.7	39.2	96	98	75-125	1	20		
Selenium	ug/L	<0.0020 mg/L	40	40	38.0	40.8	95	102	75-125	7	20		
Thallium	ug/L	<0.0020 mg/L	40	40	39.8	40.0	99	100	75-125	1	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch: 786761 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

METHOD BLANK: 3599038 Matrix: Water
 Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	10.0	04/25/24 20:23	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	10.0	04/25/24 20:23	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	10.0	04/25/24 20:23	

LABORATORY CONTROL SAMPLE: 3599039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.0	104	90-110	

SAMPLE DUPLICATE: 3599040

Parameter	Units	50371236001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	338	343	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	338	343	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3599041

Parameter	Units	50371262001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	137	140	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	137	140	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch:	786805	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50371295001, 50371295002, 50371295003, 50371295004		

METHOD BLANK: 3599432 Matrix: Water
 Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/26/24 11:17	

LABORATORY CONTROL SAMPLE: 3599433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3599434

Parameter	Units	50371314001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	113	108	5	10	

SAMPLE DUPLICATE: 3599435

Parameter	Units	50371444003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	590	599	2	10	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch: 787217

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

SAMPLE DUPLICATE: 3601411

Parameter	Units	50371317001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	0	2	H3

SAMPLE DUPLICATE: 3601412

Parameter	Units	50371437004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	0	2	H3

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch:	786351	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371295004

METHOD BLANK:	3597296	Matrix:	Water
Associated Lab Samples:	50371295004		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/23/24 23:55	

LABORATORY CONTROL SAMPLE: 3597297						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	104	90-110	

MATRIX SPIKE SAMPLE: 3597298							
Parameter	Units	50371245005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597299												3597300	
Parameter	Units	50371270005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, Nitrate	mg/L	ND	1	1	0.82	0.82	82	82	90-110	0	20		

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch:	786352	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50371295001, 50371295002, 50371295003		

METHOD BLANK: 3597301 Matrix: Water

Associated Lab Samples: 50371295001, 50371295002, 50371295003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	0.013	04/24/24 00:49	

LABORATORY CONTROL SAMPLE: 3597302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3597303 3597304

Parameter	Units	3597303		3597304		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50371295001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	106	106	90-110	0	20	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch: 787166

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Dissolved Organic Carbon

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371295001

METHOD BLANK: 3601255

Matrix: Water

Associated Lab Samples: 50371295001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	04/30/24 16:42	

LABORATORY CONTROL SAMPLE: 3601256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3601257 3601258

Parameter	Units	50370854005		3601257		3601258		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result				
Dissolved Organic Carbon	mg/L	11.6	40	40	52.9	52.4	103	102	80-120	1	20

MATRIX SPIKE SAMPLE: 3601259

Parameter	Units	50371215001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.9	10	10.9	90	80-120	

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QUALITY CONTROL DATA

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch:	788566	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50371295002, 50371295003, 50371295004		

METHOD BLANK: 3607236 Matrix: Water

Associated Lab Samples: 50371295002, 50371295003, 50371295004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	ND	1.0	0.25	05/07/24 16:46	

LABORATORY CONTROL SAMPLE: 3607237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3607238 3607239

Parameter	Units	50372105001		3607238		3607239		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Dissolved Organic Carbon	mg/L	1.7	10	10	10	10.9	11.1	92	94	80-120	2	20

MATRIX SPIKE SAMPLE: 3607240

Parameter	Units	50371295002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	1.1	10	10.5	94	80-120	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: MW-25S **Lab ID: 50371295001** Collected: 04/23/24 12:35 Received: 04/23/24 16:52 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.605 ± 0.675 (1.10) C:NA T:84%	pCi/L	05/13/24 14:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.672 ± 0.502 (0.976) C:79% T:67%	pCi/L	05/07/24 14:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.28 ± 1.18 (2.08)	pCi/L	05/14/24 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: MW-25I **Lab ID: 50371295002** Collected: 04/23/24 11:30 Received: 04/23/24 16:52 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.982 ± 0.907 (1.44) C:NA T:88%	pCi/L	05/13/24 14:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.696 ± 0.445 (0.824) C:83% T:70%	pCi/L	05/07/24 14:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.68 ± 1.35 (2.26)	pCi/L	05/14/24 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: MW-25D **Lab ID: 50371295003** Collected: 04/23/24 10:25 Received: 04/23/24 16:52 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.702 ± 0.765 (1.24) C:NA T:90%	pCi/L	05/13/24 14:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.199 ± 0.414 (0.916) C:81% T:67%	pCi/L	05/07/24 14:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.901 ± 1.18 (2.16)	pCi/L	05/14/24 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Sample: Dup-6 **Lab ID: 50371295004** Collected: 04/23/24 08:00 Received: 04/23/24 16:52 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.976 ± 0.824 (1.27) C:NA T:84%	pCi/L	05/13/24 14:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.691 ± 0.395 (0.707) C:83% T:77%	pCi/L	05/07/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.67 ± 1.22 (1.98)	pCi/L	05/14/24 16:13	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch: 665127

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: 50371295001, 50371295002, 50371295003, 50371295004

METHOD BLANK: 3238056

Matrix: Water

Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.307 ± 0.230 (0.119) C:NA T:93%	pCi/L	05/13/24 14:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

QC Batch: 665128

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: 50371295001, 50371295002, 50371295003, 50371295004

METHOD BLANK: 3238058

Matrix: Water

Associated Lab Samples: 50371295001, 50371295002, 50371295003, 50371295004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.598 ± 0.409 (0.776) C:83% T:70%	pCi/L	05/07/24 14:00	

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QUALIFIERS

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50371295001	MW-25S	EPA 9056	787373		
50371295002	MW-25I	EPA 9056	787373		
50371295003	MW-25D	EPA 9056	787373		
50371295004	Dup-6	EPA 9056	787373		
50371295001	MW-25S	EPA 3010	786516	EPA 6010	787484
50371295002	MW-25I	EPA 3010	786516	EPA 6010	787484
50371295003	MW-25D	EPA 3010	786516	EPA 6010	787484
50371295004	Dup-6	EPA 3010	786516	EPA 6010	787484
50371295001	MW-25S	EPA 3010	786628	EPA 6010	786987
50371295002	MW-25I	EPA 3010	786628	EPA 6010	786987
50371295003	MW-25D	EPA 3010	786628	EPA 6010	786987
50371295004	Dup-6	EPA 3010	786628	EPA 6010	786987
50371295001	MW-25S	EPA 200.2	786734	EPA 6020	786983
50371295002	MW-25I	EPA 200.2	786734	EPA 6020	786983
50371295003	MW-25D	EPA 200.2	786734	EPA 6020	786983
50371295004	Dup-6	EPA 200.2	786734	EPA 6020	786983
50371295001	MW-25S	EPA 7470	787716	EPA 7470	787961
50371295002	MW-25I	EPA 7470	787716	EPA 7470	787961
50371295003	MW-25D	EPA 7470	787716	EPA 7470	787961
50371295004	Dup-6	EPA 7470	787716	EPA 7470	787961
50371295001	MW-25S	EPA 903.1	665127		
50371295002	MW-25I	EPA 903.1	665127		
50371295003	MW-25D	EPA 903.1	665127		
50371295004	Dup-6	EPA 903.1	665127		
50371295001	MW-25S	EPA 904.0	665128		
50371295002	MW-25I	EPA 904.0	665128		
50371295003	MW-25D	EPA 904.0	665128		
50371295004	Dup-6	EPA 904.0	665128		
50371295001	MW-25S	Total Radium Calculation	668649		
50371295002	MW-25I	Total Radium Calculation	668649		
50371295003	MW-25D	Total Radium Calculation	668649		
50371295004	Dup-6	Total Radium Calculation	668649		
50371295001	MW-25S	SM 2320B	786761		
50371295002	MW-25I	SM 2320B	786761		
50371295003	MW-25D	SM 2320B	786761		
50371295004	Dup-6	SM 2320B	786761		
50371295001	MW-25S	SM 2540C	786805		
50371295002	MW-25I	SM 2540C	786805		
50371295003	MW-25D	SM 2540C	786805		
50371295004	Dup-6	SM 2540C	786805		
50371295001	MW-25S	SM 4500-H+B	787217		
50371295002	MW-25I	SM 4500-H+B	787217		
50371295003	MW-25D	SM 4500-H+B	787217		
50371295004	Dup-6	SM 4500-H+B	787217		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Eagle Valley April 2024 P1R2

Pace Project No.: 50371295

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50371295001	MW-25S	EPA 353.2	786352		
50371295002	MW-25I	EPA 353.2	786352		
50371295003	MW-25D	EPA 353.2	786352		
50371295004	Dup-6	EPA 353.2	786351		
50371295001	MW-25S	SM 5310C	787166		
50371295002	MW-25I	SM 5310C	788566		
50371295003	MW-25D	SM 5310C	788566		
50371295004	Dup-6	SM 5310C	788566		

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SAMPLE CONDITION UPON RECEIPT FORM

4/23/24 16:52 TH

Date/Time and Initials of person examining contents: _____

1. Courier: FED EX UPS CLIENT PACE NOW/JETT OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D **E** F G H

4. Cooler Temperature(s): 1.1/1.0 2.6/2.5
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other _____

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate by 353.2	<input checked="" type="checkbox"/>		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent <input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?			<input checked="" type="checkbox"/>
			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Appendix C: Statistical Analyses – Prediction Limits Documentation

October 2023

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13S	09/25/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13S	05/07/2020	ND	6.0000	1.0000	**
Antimony, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Antimony, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	06/22/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	07/27/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	11/16/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	05/19/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13S	11/18/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13S	04/18/2023	ND	1.0000		
Antimony, Total	ug/L	MW-13S	10/11/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	09/25/2019		5.8000		
Arsenic, Total	ug/L	MW-13S	05/07/2020	ND	10.0000	1.0000	**
Arsenic, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	06/22/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	07/27/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	11/16/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	05/19/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	11/18/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	04/18/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	10/11/2023	ND	1.0000		
Barium, Total	ug/L	MW-13S	08/08/2019		50.0000		
Barium, Total	ug/L	MW-13S	09/25/2019		69.3000		
Barium, Total	ug/L	MW-13S	05/07/2020		56.4000		
Barium, Total	ug/L	MW-13S	11/12/2020		44.5000		
Barium, Total	ug/L	MW-13S	02/25/2021		53.3000		
Barium, Total	ug/L	MW-13S	03/29/2021		60.3000		
Barium, Total	ug/L	MW-13S	05/20/2021		51.0000		
Barium, Total	ug/L	MW-13S	06/22/2021		44.5000		
Barium, Total	ug/L	MW-13S	07/27/2021		48.3000		
Barium, Total	ug/L	MW-13S	11/16/2021		50.4000		
Barium, Total	ug/L	MW-13S	05/19/2022		58.6000		
Barium, Total	ug/L	MW-13S	11/18/2022		52.6000		
Barium, Total	ug/L	MW-13S	04/18/2023		50.7000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium, Total	ug/L	MW-13S	10/11/2023		54.1000		
Beryllium, Total	ug/L	MW-13S	08/08/2019	ND	0.2000	0.2000	**
Beryllium, Total	ug/L	MW-13S	09/25/2019	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	05/07/2020	ND	4.0000		
Beryllium, Total	ug/L	MW-13S	11/12/2020	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	02/25/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	03/29/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	05/20/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	06/22/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	07/27/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	05/19/2022	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	04/18/2023	ND	0.2000		
Cadmium, Total	ug/L	MW-13S	08/08/2019	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	09/25/2019	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	05/07/2020	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	11/12/2020	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	02/25/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	03/29/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	05/20/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	06/22/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	07/27/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	05/19/2022	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	04/18/2023	ND	2.0000		
Chromium, Total	ug/L	MW-13S	08/08/2019	ND	10.0000		
Chromium, Total	ug/L	MW-13S	09/25/2019	ND	10.0000		
Chromium, Total	ug/L	MW-13S	05/07/2020	ND	10.0000		
Chromium, Total	ug/L	MW-13S	11/12/2020	ND	10.0000		
Chromium, Total	ug/L	MW-13S	02/25/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	03/29/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	05/20/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	06/22/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	07/27/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	05/19/2022	ND	10.0000		
Chromium, Total	ug/L	MW-13S	04/18/2023	ND	10.0000		
Cobalt, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	09/25/2019		5.8000		
Cobalt, Total	ug/L	MW-13S	05/07/2020	ND	10.0000		
Cobalt, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted
Cobalt, Total	ug/L	MW-13S	06/22/2021	ND	1.0000	
Cobalt, Total	ug/L	MW-13S	07/27/2021	ND	1.0000	
Cobalt, Total	ug/L	MW-13S	11/16/2021	ND	1.0000	
Cobalt, Total	ug/L	MW-13S	05/19/2022	ND	1.0000	
Cobalt, Total	ug/L	MW-13S	04/18/2023	ND	1.0000	
Cobalt, Total	ug/L	MW-13S	10/11/2023	ND	1.0000	
Fluoride	mg/L	MW-13S	08/08/2019	ND	0.1000	
Fluoride	mg/L	MW-13S	09/25/2019	ND	0.1000	
Fluoride	mg/L	MW-13S	05/07/2020	ND	0.1000	
Fluoride	mg/L	MW-13S	11/12/2020	ND	0.1000	
Fluoride	mg/L	MW-13S	02/25/2021	ND	0.1000	
Fluoride	mg/L	MW-13S	03/29/2021	ND	0.1000	
Fluoride	mg/L	MW-13S	05/20/2021	ND	0.1000	
Fluoride	mg/L	MW-13S	06/22/2021	ND	0.1000	
Fluoride	mg/L	MW-13S	07/27/2021	ND	0.1000	
Fluoride	mg/L	MW-13S	11/16/2021	ND	0.1000	
Fluoride	mg/L	MW-13S	05/19/2022	ND	0.1000	
Fluoride	mg/L	MW-13S	11/18/2022	ND	0.1000	
Fluoride	mg/L	MW-13S	04/18/2023	ND	0.1000	
Fluoride	mg/L	MW-13S	10/11/2023	ND	0.1000	
Lead, Total	ug/L	MW-13S	08/08/2019	ND	10.0000	
Lead, Total	ug/L	MW-13S	09/25/2019	ND	10.0000	
Lead, Total	ug/L	MW-13S	05/07/2020	ND	10.0000	
Lead, Total	ug/L	MW-13S	11/12/2020	ND	10.0000	
Lead, Total	ug/L	MW-13S	02/25/2021	ND	10.0000	
Lead, Total	ug/L	MW-13S	03/29/2021	ND	10.0000	
Lead, Total	ug/L	MW-13S	05/20/2021	ND	10.0000	
Lead, Total	ug/L	MW-13S	06/22/2021	ND	10.0000	
Lead, Total	ug/L	MW-13S	07/27/2021	ND	10.0000	
Lead, Total	ug/L	MW-13S	05/19/2022	ND	10.0000	
Lead, Total	ug/L	MW-13S	04/18/2023	ND	10.0000	
Lithium, Total	ug/L	MW-13S	08/08/2019	ND	20.0000	
Lithium, Total	ug/L	MW-13S	09/25/2019	ND	20.0000	
Lithium, Total	ug/L	MW-13S	05/07/2020	ND	20.0000	
Lithium, Total	ug/L	MW-13S	11/12/2020	ND	20.0000	
Lithium, Total	ug/L	MW-13S	02/25/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13S	03/29/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13S	05/20/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13S	06/22/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13S	07/27/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13S	11/16/2021	ND	20.0000	

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lithium, Total	ug/L	MW-13S	05/19/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13S	11/18/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13S	04/18/2023	ND	20.0000		
Lithium, Total	ug/L	MW-13S	10/11/2023	ND	20.0000		
Mercury	ug/L	MW-13S	08/08/2019	ND	2.0000		
Mercury	ug/L	MW-13S	09/25/2019	ND	2.0000		
Mercury	ug/L	MW-13S	11/12/2020	ND	2.0000		
Mercury	ug/L	MW-13S	02/25/2021	ND	2.0000		
Mercury	ug/L	MW-13S	03/29/2021	ND	2.0000		
Mercury	ug/L	MW-13S	05/20/2021	ND	2.0000		
Mercury	ug/L	MW-13S	06/22/2021	ND	2.0000		
Mercury	ug/L	MW-13S	07/27/2021	ND	2.0000		
Mercury	ug/L	MW-13S	05/19/2022	ND	0.2000	2.0000	**
Mercury	ug/L	MW-13S	04/18/2023	ND	0.2000	2.0000	**
Molybdenum, Total	ug/L	MW-13S	08/08/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	09/25/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	05/07/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	11/12/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	02/25/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	03/29/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	05/20/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	06/22/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	07/27/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	11/16/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	05/19/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	11/18/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	04/18/2023	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	10/11/2023	ND	10.0000		
Selenium, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		
Selenium, Total	ug/L	MW-13S	09/25/2019	ND	1.0000		
Selenium, Total	ug/L	MW-13S	05/07/2020	ND	10.0000	1.0000	**
Selenium, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Selenium, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	06/22/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	07/27/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	11/16/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	05/19/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13S	11/18/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13S	04/18/2023	ND	1.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, Total	ug/L	MW-13S	10/11/2023	ND	1.0000		
Thallium, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13S	09/25/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13S	05/07/2020	ND	10.0000	1.0000	**
Thallium, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Thallium, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	06/22/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	07/27/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	05/19/2022	ND	1.0000		
Thallium, Total	ug/L	MW-13S	04/18/2023	ND	1.0000		
Total Radium	pCi/L	MW-13S	08/08/2019		0.4940		
Total Radium	pCi/L	MW-13S	09/25/2019		1.7800		
Total Radium	pCi/L	MW-13S	11/12/2020		1.1700		
Total Radium	pCi/L	MW-13S	02/25/2021		0.8130		
Total Radium	pCi/L	MW-13S	03/29/2021	ND	1.6500	1.3900	**
Total Radium	pCi/L	MW-13S	05/20/2021	ND	2.1500	1.3900	**
Total Radium	pCi/L	MW-13S	06/22/2021		0.7480		
Total Radium	pCi/L	MW-13S	07/27/2021	ND	1.1900	1.3900	**
Total Radium	pCi/L	MW-13S	11/16/2021	ND	1.2200	1.3900	**
Total Radium	pCi/L	MW-13S	05/19/2022	ND	2.0300	1.3900	**
Total Radium	pCi/L	MW-13S	11/18/2022	ND	1.3900		
Total Radium	pCi/L	MW-13S	04/18/2023	ND	1.0600	1.3900	**
Total Radium	pCi/L	MW-13S	10/11/2023		0.9600		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-10S	05/04/2023		2.4000	***	1.0000
Antimony, Total	ug/L	MW-11S	05/02/2023		1.4000	***	1.0000
Antimony, Total	ug/L	MW-12S	10/11/2023		1.8000	***	1.0000
Antimony, Total	ug/L	MW-1S	10/11/2023		1.9000	***	1.0000
Antimony, Total	ug/L	MW-2S	10/10/2023	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-3S	10/09/2023	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6S	05/01/2023		1.0000	*	1.0000
Antimony, Total	ug/L	MW-7S	10/09/2023		2.9000	***	1.0000
Arsenic, Total	ug/L	MW-10S	05/04/2023	ND	1.0000		5.8000
Arsenic, Total	ug/L	MW-11S	05/02/2023		59.8000	***	5.8000
Arsenic, Total	ug/L	MW-12S	10/11/2023	ND	1.0000		5.8000
Arsenic, Total	ug/L	MW-1S	10/11/2023		4.2000		5.8000
Arsenic, Total	ug/L	MW-2S	10/10/2023		5.9000	***	5.8000
Arsenic, Total	ug/L	MW-3S	10/09/2023	ND	1.0000		5.8000
Arsenic, Total	ug/L	MW-6S	05/01/2023	ND	1.0000		5.8000
Arsenic, Total	ug/L	MW-7S	10/09/2023	ND	1.0000		5.8000
Barium, Total	ug/L	MW-10S	05/04/2023		69.5000	**	71.0409
Barium, Total	ug/L	MW-11S	05/02/2023		77.1000	***	71.0409
Barium, Total	ug/L	MW-12S	10/11/2023		136.0000	***	71.0409
Barium, Total	ug/L	MW-1S	10/11/2023		83.7000	*	71.0409
Barium, Total	ug/L	MW-2S	10/10/2023		107.0000	***	71.0409
Barium, Total	ug/L	MW-3S	10/09/2023		98.8000	***	71.0409
Barium, Total	ug/L	MW-6S	05/01/2023		73.1000	***	71.0409
Barium, Total	ug/L	MW-7S	10/09/2023		47.7000		71.0409
Beryllium, Total	ug/L	MW-10S	05/04/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-11S	05/02/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-12S	04/27/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-1S	04/23/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-2S	04/18/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-3S	04/18/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-6S	05/01/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-7S	05/03/2023	ND	0.2000		0.2000
Cadmium, Total	ug/L	MW-10S	05/04/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-11S	05/02/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-12S	04/27/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-1S	04/23/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-2S	04/18/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-3S	04/18/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-6S	05/01/2023	ND	2.0000		2.0000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Cadmium, Total	ug/L	MW-7S	05/03/2023	ND	2.0000		2.0000
Chromium, Total	ug/L	MW-10S	05/04/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-11S	05/02/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-12S	04/27/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-1S	04/23/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-2S	04/18/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-3S	04/18/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-6S	05/01/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-7S	05/03/2023	ND	10.0000		10.0000
Cobalt, Total	ug/L	MW-10S	05/04/2023	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-11S	05/02/2023	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-12S	10/11/2023	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-1S	10/11/2023	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-2S	10/10/2023	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-3S	10/09/2023	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-6S	05/01/2023	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-7S	10/09/2023	ND	1.3000		5.8000
Fluoride	mg/L	MW-10S	05/04/2023		0.1900	***	0.1000
Fluoride	mg/L	MW-11S	05/02/2023		0.2100	***	0.1000
Fluoride	mg/L	MW-12S	10/11/2023		0.2000	***	0.1000
Fluoride	mg/L	MW-1S	10/11/2023	ND	0.1000	**	0.1000
Fluoride	mg/L	MW-2S	10/10/2023		0.1600	***	0.1000
Fluoride	mg/L	MW-3S	10/09/2023		0.2500	***	0.1000
Fluoride	mg/L	MW-6S	05/01/2023		0.2500	***	0.1000
Fluoride	mg/L	MW-7S	10/09/2023	ND	0.1000		0.1000
Lead, Total	ug/L	MW-10S	05/04/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-11S	05/02/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-12S	04/27/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-1S	04/23/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-2S	04/18/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-3S	04/18/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-6S	05/01/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-7S	05/03/2023	ND	10.0000		10.0000
Lithium, Total	ug/L	MW-10S	05/04/2023		88.7000	***	20.0000
Lithium, Total	ug/L	MW-11S	05/02/2023		51.4000	***	20.0000
Lithium, Total	ug/L	MW-12S	10/11/2023		129.0000	***	20.0000
Lithium, Total	ug/L	MW-1S	10/11/2023		77.8000	***	20.0000
Lithium, Total	ug/L	MW-2S	10/10/2023		35.7000	***	20.0000
Lithium, Total	ug/L	MW-3S	10/09/2023	ND	20.0000		20.0000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	ug/L	MW-6S	05/01/2023		52.2000	***	20.0000
Lithium, Total	ug/L	MW-7S	10/09/2023		54.4000	***	20.0000
Mercury	ug/L	MW-10S	05/04/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-11S	05/02/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-12S	04/27/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-1S	04/23/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-2S	04/18/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-3S	04/18/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-6S	05/01/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-7S	05/03/2023	ND	0.2000		2.0000
Molybdenum, Total	ug/L	MW-10S	05/04/2023		55.3000	***	10.0000
Molybdenum, Total	ug/L	MW-11S	05/02/2023		56.0000	***	10.0000
Molybdenum, Total	ug/L	MW-12S	10/11/2023		15.0000	***	10.0000
Molybdenum, Total	ug/L	MW-1S	10/11/2023		32.5000	***	10.0000
Molybdenum, Total	ug/L	MW-2S	10/10/2023	ND	10.0000		10.0000
Molybdenum, Total	ug/L	MW-3S	10/09/2023		43.3000	***	10.0000
Molybdenum, Total	ug/L	MW-6S	05/01/2023		83.8000	***	10.0000
Molybdenum, Total	ug/L	MW-7S	10/09/2023		28.0000	***	10.0000
Selenium, Total	ug/L	MW-10S	05/04/2023		2.2000	***	1.0000
Selenium, Total	ug/L	MW-11S	05/02/2023		11.3000	***	1.0000
Selenium, Total	ug/L	MW-12S	10/11/2023		23.7000	***	1.0000
Selenium, Total	ug/L	MW-1S	10/11/2023		16.0000	***	1.0000
Selenium, Total	ug/L	MW-2S	10/10/2023		4.5000	***	1.0000
Selenium, Total	ug/L	MW-3S	10/09/2023	ND	1.0000	**	1.0000
Selenium, Total	ug/L	MW-6S	05/01/2023		36.4000	***	1.0000
Selenium, Total	ug/L	MW-7S	10/09/2023		26.8000	***	1.0000
Thallium, Total	ug/L	MW-10S	05/04/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-11S	05/02/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-12S	04/27/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-1S	04/23/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-2S	04/18/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-3S	04/18/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-6S	05/01/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-7S	05/03/2023	ND	1.0000		1.0000
Total Radium	pCi/L	MW-10S	05/04/2023		1.3300		1.7800
Total Radium	pCi/L	MW-11S	05/02/2023	ND	1.7300		1.7800
Total Radium	pCi/L	MW-12S	10/11/2023	ND	1.9300		1.7800
Total Radium	pCi/L	MW-1S	10/11/2023	ND	1.6300		1.7800
Total Radium	pCi/L	MW-2S	10/10/2023		0.7500		1.7800

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result	Pred. Limit
Total Radium	pCi/L	MW-3S	10/09/2023	ND	1.9400	1.7800
Total Radium	pCi/L	MW-6S	05/01/2023	ND	1.4900	1.7800
Total Radium	pCi/L	MW-7S	10/09/2023		1.0800	1.7800

- * - Current value failed - awaiting verification.
 - ** - Current value passed - previous exceedance not verified.
 - *** - Current value failed - exceedance verified.
 - **** - Current value passed - awaiting one more verification.
 - ***** - Insufficient background data to compute prediction limit.
- ND = Not Detected, Result = detection limit.

Table C-3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	14	0.000	65	151	0.430
Arsenic, Total	1	14	0.071	61	150	0.407
Barium, Total	14	14	1.000	151	151	1.000
Beryllium, Total	0	11	0.000	0	112	0.000
Cadmium, Total	0	11	0.000	0	112	0.000
Chromium, Total	0	11	0.000	0	112	0.000
Cobalt, Total	1	13	0.077	6	145	0.041
Fluoride	0	14	0.000	147	159	0.925
Lead, Total	0	11	0.000	3	112	0.027
Lithium, Total	0	14	0.000	144	151	0.954
Mercury	0	10	0.000	0	112	0.000
Molybdenum, Total	0	14	0.000	146	151	0.967
Selenium, Total	0	14	0.000	93	151	0.616
Thallium, Total	0	11	0.000	0	112	0.000
Total Radium	6	13	0.462	91	151	0.603

N = Total number of measurements in all wells.
 Detect = Total number of detections in all wells.
 Proportion = Detect/N.

Table C-4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Arsenic, Total	1	14	0.071	20.331	20.331					2.326	non-norm	nonpar
Barium, Total	14	14	1.000	0.665	0.117					2.326	normal	normal
Beryllium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Cadmium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Chromium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Cobalt, Total	1	13	0.077	20.692	20.692					2.326	non-norm	nonpar
Fluoride	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Lead, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Lithium, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Mercury	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Molybdenum, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Selenium, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Thallium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Total Radium	6	13	0.462	1.647	2.305					2.326	normal	nonpar

* - Distribution override for that constituent.
 Fit to distribution is confirmed if G <= critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table C-5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type	Conf
Antimony, Total	ug/L	0	14					1.0000	nonpar	*** 0.94
Arsenic, Total	ug/L	1	14					5.8000	nonpar	*** 0.94
Barium, Total	ug/L	14	14	53.1429	6.5323	0.0100	2.7400	71.0409	normal	
Beryllium, Total	ug/L	0	11					0.2000	nonpar	*** 0.91
Cadmium, Total	ug/L	0	11					2.0000	nonpar	*** 0.91
Chromium, Total	ug/L	0	11					10.0000	nonpar	*** 0.91
Cobalt, Total	ug/L	1	13					5.8000	nonpar	*** 0.93
Fluoride	mg/L	0	14					0.1000	nonpar	*** 0.94
Lead, Total	ug/L	0	11					10.0000	nonpar	*** 0.91
Lithium, Total	ug/L	0	14					20.0000	nonpar	*** 0.94
Mercury	ug/L	0	10					2.0000	nonpar	*** 0.90
Molybdenum, Total	ug/L	0	14					10.0000	nonpar	*** 0.94
Selenium, Total	ug/L	0	14					1.0000	nonpar	*** 0.94
Thallium, Total	ug/L	0	11					1.0000	nonpar	*** 0.91
Total Radium	pCi/L	6	13					1.7800	nonpar	*** 0.93

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table C-6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
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N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-10S	04/21/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	05/31/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	08/11/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	09/29/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	11/30/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	01/30/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	05/24/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	08/09/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	05/23/2018		1.0000	**	1.0000
Antimony, Total	ug/L	MW-10S	09/11/2018		1.4000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/07/2019		1.6000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/07/2020		2.1000	*	1.0000
Antimony, Total	ug/L	MW-10S	11/11/2020		3.1000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/21/2021		2.2000	*	1.0000
Antimony, Total	ug/L	MW-10S	11/12/2021		1.8000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/18/2022		2.2000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/04/2023		2.4000	*	1.0000
Antimony, Total	ug/L	MW-11S	04/20/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	06/02/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	08/12/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	09/30/2016		6.3000	*	1.0000
Antimony, Total	ug/L	MW-11S	12/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	01/31/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	05/25/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	08/10/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	05/23/2018		1.9000	*	1.0000
Antimony, Total	ug/L	MW-11S	09/11/2018		1.8000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/08/2019		1.7000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/07/2020		1.6000	*	1.0000
Antimony, Total	ug/L	MW-11S	11/12/2020		1.4000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/17/2021		1.5000	*	1.0000
Antimony, Total	ug/L	MW-11S	11/17/2021		1.4000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/12/2022		1.4000	*	1.0000
Antimony, Total	ug/L	MW-11S	11/21/2022		1.3000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/02/2023		1.4000	*	1.0000
Antimony, Total	ug/L	MW-12S	04/20/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	06/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	08/11/2016	ND	6.0000		1.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-12S	09/29/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	12/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	01/30/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	05/25/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	08/10/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	05/23/2018		1.2000	*	1.0000
Antimony, Total	ug/L	MW-12S	09/12/2018		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	05/08/2019		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	05/08/2020		1.4000	*	1.0000
Antimony, Total	ug/L	MW-12S	11/12/2020		1.3000	*	1.0000
Antimony, Total	ug/L	MW-12S	05/13/2021		1.2000	*	1.0000
Antimony, Total	ug/L	MW-12S	11/10/2021		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	05/12/2022		1.4000	*	1.0000
Antimony, Total	ug/L	MW-12S	11/15/2022		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	04/27/2023		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	10/11/2023		1.8000	*	1.0000
Antimony, Total	ug/L	MW-1S	04/19/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	06/02/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	08/10/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	09/30/2016		6.3000	*	1.0000
Antimony, Total	ug/L	MW-1S	12/02/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	01/31/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	05/26/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	08/11/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	05/23/2018		4.2000	*	1.0000
Antimony, Total	ug/L	MW-1S	09/11/2018		4.4000	*	1.0000
Antimony, Total	ug/L	MW-1S	05/08/2019		1.8000	*	1.0000
Antimony, Total	ug/L	MW-1S	11/14/2019		3.5000	*	1.0000
Antimony, Total	ug/L	MW-1S	05/05/2020		2.6000	*	1.0000
Antimony, Total	ug/L	MW-1S	11/11/2020		2.9000	*	1.0000
Antimony, Total	ug/L	MW-1S	05/25/2021		1.9000	*	1.0000
Antimony, Total	ug/L	MW-1S	11/09/2021		1.8000	*	1.0000
Antimony, Total	ug/L	MW-1S	05/10/2022		1.7000	*	1.0000
Antimony, Total	ug/L	MW-1S	11/22/2022		2.7000	*	1.0000
Antimony, Total	ug/L	MW-1S	04/23/2023		1.4000	*	1.0000
Antimony, Total	ug/L	MW-1S	10/11/2023		1.9000	*	1.0000
Antimony, Total	ug/L	MW-6S	04/20/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	06/01/2016	ND	6.0000		1.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-6S	08/11/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	09/29/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	12/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	01/30/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	05/25/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	08/10/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	05/22/2018		1.1000 *		1.0000
Antimony, Total	ug/L	MW-6S	09/11/2018		1.6000 *		1.0000
Antimony, Total	ug/L	MW-6S	05/08/2019	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6S	11/13/2019		1.5000 *		1.0000
Antimony, Total	ug/L	MW-6S	05/08/2020		1.1000 *		1.0000
Antimony, Total	ug/L	MW-6S	11/19/2020		1.4000 *		1.0000
Antimony, Total	ug/L	MW-6S	05/18/2021		1.4000 *		1.0000
Antimony, Total	ug/L	MW-6S	11/09/2021		1.2000 *		1.0000
Antimony, Total	ug/L	MW-6S	05/11/2022	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6S	05/01/2023		1.0000 **		1.0000
Antimony, Total	ug/L	MW-7S	04/20/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	06/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	08/11/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	09/29/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	12/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	01/30/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	05/25/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	08/10/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	05/23/2018		3.3000 *		1.0000
Antimony, Total	ug/L	MW-7S	09/11/2018		2.8000 *		1.0000
Antimony, Total	ug/L	MW-7S	05/07/2019		1.7000 *		1.0000
Antimony, Total	ug/L	MW-7S	05/07/2020		2.5000 *		1.0000
Antimony, Total	ug/L	MW-7S	11/11/2020		3.1000 *		1.0000
Antimony, Total	ug/L	MW-7S	05/17/2021		2.7000 *		1.0000
Antimony, Total	ug/L	MW-7S	11/18/2021		3.8000 *		1.0000
Antimony, Total	ug/L	MW-7S	05/12/2022		2.3000 *		1.0000
Antimony, Total	ug/L	MW-7S	11/16/2022		2.6000 *		1.0000
Antimony, Total	ug/L	MW-7S	05/03/2023		2.9000 *		1.0000
Antimony, Total	ug/L	MW-7S	10/09/2023		2.9000 *		1.0000
Arsenic, Total	ug/L	MW-11S	04/20/2016		146.0000 *		5.8000
Arsenic, Total	ug/L	MW-11S	06/02/2016		100.0000 *		5.8000
Arsenic, Total	ug/L	MW-11S	08/12/2016		61.0000 *		5.8000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, Total	ug/L	MW-11S	09/30/2016		64.5000	*	5.8000
Arsenic, Total	ug/L	MW-11S	12/01/2016		41.6000	*	5.8000
Arsenic, Total	ug/L	MW-11S	01/31/2017		107.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/25/2017		115.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	08/10/2017		130.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/23/2018		126.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	09/11/2018		63.2000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/08/2019		79.6000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/07/2020		108.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	11/12/2020		141.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/17/2021		110.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	11/17/2021		77.8000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/12/2022		103.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	11/21/2022		49.2000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/02/2023		59.8000	*	5.8000
Arsenic, Total	ug/L	MW-2S	04/19/2016		15.9000	*	5.8000
Arsenic, Total	ug/L	MW-2S	06/01/2016	ND	10.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	08/11/2016		16.9000	*	5.8000
Arsenic, Total	ug/L	MW-2S	09/30/2016		19.8000	*	5.8000
Arsenic, Total	ug/L	MW-2S	12/02/2016		21.7000	*	5.8000
Arsenic, Total	ug/L	MW-2S	01/31/2017		17.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	05/26/2017	ND	10.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	08/11/2017	ND	10.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	05/22/2018		28.5000	*	5.8000
Arsenic, Total	ug/L	MW-2S	09/11/2018		60.3000	***	5.8000
Arsenic, Total	ug/L	MW-2S	05/09/2019		15.1000	*	5.8000
Arsenic, Total	ug/L	MW-2S	11/14/2019		8.4000	*	5.8000
Arsenic, Total	ug/L	MW-2S	05/08/2020		15.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	11/11/2020		8.9000	*	5.8000
Arsenic, Total	ug/L	MW-2S	05/11/2021		12.4000	*	5.8000
Arsenic, Total	ug/L	MW-2S	11/10/2021		13.7000	*	5.8000
Arsenic, Total	ug/L	MW-2S	05/11/2022		13.3000	*	5.8000
Arsenic, Total	ug/L	MW-2S	11/15/2022		6.2000	*	5.8000
Arsenic, Total	ug/L	MW-2S	04/18/2023		13.9000	*	5.8000
Arsenic, Total	ug/L	MW-2S	10/10/2023		5.9000	*	5.8000
Barium, Total	ug/L	MW-10S	04/21/2016		78.3000	*	71.0409
Barium, Total	ug/L	MW-10S	05/31/2016		76.6000	*	71.0409
Barium, Total	ug/L	MW-10S	08/11/2016		68.2000	*	71.0409

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-10S	09/29/2016	66.5000	71.0409
Barium, Total	ug/L	MW-10S	11/30/2016	73.1000 *	71.0409
Barium, Total	ug/L	MW-10S	01/30/2017	67.4000	71.0409
Barium, Total	ug/L	MW-10S	05/24/2017	69.6000	71.0409
Barium, Total	ug/L	MW-10S	08/09/2017	69.3000	71.0409
Barium, Total	ug/L	MW-10S	05/23/2018	65.4000	71.0409
Barium, Total	ug/L	MW-10S	09/11/2018	67.0000	71.0409
Barium, Total	ug/L	MW-10S	05/07/2019	91.2000 *	71.0409
Barium, Total	ug/L	MW-10S	05/07/2020	93.4000 *	71.0409
Barium, Total	ug/L	MW-10S	11/11/2020	95.0000 *	71.0409
Barium, Total	ug/L	MW-10S	05/21/2021	73.7000 *	71.0409
Barium, Total	ug/L	MW-10S	11/12/2021	83.6000 *	71.0409
Barium, Total	ug/L	MW-10S	05/18/2022	80.1000 *	71.0409
Barium, Total	ug/L	MW-10S	05/04/2023	69.5000	71.0409
Barium, Total	ug/L	MW-11S	04/20/2016	107.0000 *	71.0409
Barium, Total	ug/L	MW-11S	06/02/2016	72.1000 *	71.0409
Barium, Total	ug/L	MW-11S	08/12/2016	76.2000 *	71.0409
Barium, Total	ug/L	MW-11S	09/30/2016	70.6000	71.0409
Barium, Total	ug/L	MW-11S	12/01/2016	66.9000	71.0409
Barium, Total	ug/L	MW-11S	01/31/2017	72.2000 *	71.0409
Barium, Total	ug/L	MW-11S	05/25/2017	73.8000 *	71.0409
Barium, Total	ug/L	MW-11S	08/10/2017	74.1000 *	71.0409
Barium, Total	ug/L	MW-11S	05/23/2018	66.5000	71.0409
Barium, Total	ug/L	MW-11S	09/11/2018	63.9000	71.0409
Barium, Total	ug/L	MW-11S	05/08/2019	85.4000 *	71.0409
Barium, Total	ug/L	MW-11S	05/07/2020	84.3000 *	71.0409
Barium, Total	ug/L	MW-11S	11/12/2020	133.0000 *	71.0409
Barium, Total	ug/L	MW-11S	05/17/2021	123.0000 *	71.0409
Barium, Total	ug/L	MW-11S	11/17/2021	106.0000 *	71.0409
Barium, Total	ug/L	MW-11S	05/12/2022	88.3000 *	71.0409
Barium, Total	ug/L	MW-11S	11/21/2022	152.0000 *	71.0409
Barium, Total	ug/L	MW-11S	05/02/2023	77.1000 *	71.0409
Barium, Total	ug/L	MW-12S	04/20/2016	123.0000 *	71.0409
Barium, Total	ug/L	MW-12S	06/01/2016	81.1000 *	71.0409
Barium, Total	ug/L	MW-12S	08/11/2016	68.8000	71.0409
Barium, Total	ug/L	MW-12S	09/29/2016	60.3000	71.0409
Barium, Total	ug/L	MW-12S	12/01/2016	67.4000	71.0409
Barium, Total	ug/L	MW-12S	01/30/2017	67.3000	71.0409

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
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Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-12S	05/25/2017	87.3000 *	71.0409
Barium, Total	ug/L	MW-12S	08/10/2017	113.0000 *	71.0409
Barium, Total	ug/L	MW-12S	05/23/2018	123.0000 *	71.0409
Barium, Total	ug/L	MW-12S	09/12/2018	78.1000 *	71.0409
Barium, Total	ug/L	MW-12S	05/08/2019	119.0000 *	71.0409
Barium, Total	ug/L	MW-12S	05/08/2020	131.0000 *	71.0409
Barium, Total	ug/L	MW-12S	11/12/2020	112.0000 *	71.0409
Barium, Total	ug/L	MW-12S	05/13/2021	99.4000 *	71.0409
Barium, Total	ug/L	MW-12S	11/10/2021	127.0000 *	71.0409
Barium, Total	ug/L	MW-12S	05/12/2022	125.0000 *	71.0409
Barium, Total	ug/L	MW-12S	11/15/2022	120.0000 *	71.0409
Barium, Total	ug/L	MW-12S	04/27/2023	122.0000 *	71.0409
Barium, Total	ug/L	MW-12S	10/11/2023	136.0000 *	71.0409
Barium, Total	ug/L	MW-1S	04/19/2016	74.8000 *	71.0409
Barium, Total	ug/L	MW-1S	06/02/2016	73.3000 *	71.0409
Barium, Total	ug/L	MW-1S	08/10/2016	75.0000 *	71.0409
Barium, Total	ug/L	MW-1S	09/30/2016	83.4000 *	71.0409
Barium, Total	ug/L	MW-1S	12/02/2016	82.8000 *	71.0409
Barium, Total	ug/L	MW-1S	01/31/2017	88.1000 *	71.0409
Barium, Total	ug/L	MW-1S	05/26/2017	73.8000 *	71.0409
Barium, Total	ug/L	MW-1S	08/11/2017	72.1000 *	71.0409
Barium, Total	ug/L	MW-1S	05/23/2018	81.1000 *	71.0409
Barium, Total	ug/L	MW-1S	09/11/2018	73.8000 *	71.0409
Barium, Total	ug/L	MW-1S	05/08/2019	53.5000	71.0409
Barium, Total	ug/L	MW-1S	11/14/2019	99.2000 *	71.0409
Barium, Total	ug/L	MW-1S	05/05/2020	72.0000 *	71.0409
Barium, Total	ug/L	MW-1S	11/11/2020	97.9000 *	71.0409
Barium, Total	ug/L	MW-1S	05/25/2021	69.9000	71.0409
Barium, Total	ug/L	MW-1S	11/09/2021	73.7000 *	71.0409
Barium, Total	ug/L	MW-1S	05/10/2022	79.7000 *	71.0409
Barium, Total	ug/L	MW-1S	11/22/2022	110.0000 *	71.0409
Barium, Total	ug/L	MW-1S	04/23/2023	62.8000	71.0409
Barium, Total	ug/L	MW-1S	10/11/2023	83.7000 *	71.0409
Barium, Total	ug/L	MW-2S	04/19/2016	115.0000 *	71.0409
Barium, Total	ug/L	MW-2S	06/01/2016	117.0000 *	71.0409
Barium, Total	ug/L	MW-2S	08/11/2016	111.0000 *	71.0409
Barium, Total	ug/L	MW-2S	09/30/2016	124.0000 *	71.0409
Barium, Total	ug/L	MW-2S	12/02/2016	179.0000 *	71.0409

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, Total	ug/L	MW-2S	01/31/2017		137.0000	*	71.0409
Barium, Total	ug/L	MW-2S	05/26/2017		160.0000	*	71.0409
Barium, Total	ug/L	MW-2S	08/11/2017		189.0000	*	71.0409
Barium, Total	ug/L	MW-2S	05/22/2018		222.0000	*	71.0409
Barium, Total	ug/L	MW-2S	09/11/2018		186.0000	*	71.0409
Barium, Total	ug/L	MW-2S	05/09/2019		218.0000	*	71.0409
Barium, Total	ug/L	MW-2S	11/14/2019		122.0000	*	71.0409
Barium, Total	ug/L	MW-2S	05/08/2020		195.0000	*	71.0409
Barium, Total	ug/L	MW-2S	11/11/2020		110.0000	*	71.0409
Barium, Total	ug/L	MW-2S	05/11/2021		116.0000	*	71.0409
Barium, Total	ug/L	MW-2S	11/10/2021		143.0000	*	71.0409
Barium, Total	ug/L	MW-2S	05/11/2022		132.0000	*	71.0409
Barium, Total	ug/L	MW-2S	11/15/2022		97.4000	*	71.0409
Barium, Total	ug/L	MW-2S	04/18/2023		175.0000	*	71.0409
Barium, Total	ug/L	MW-2S	10/10/2023		107.0000	*	71.0409
Barium, Total	ug/L	MW-3S	04/20/2016		92.6000	*	71.0409
Barium, Total	ug/L	MW-3S	06/01/2016		86.9000	*	71.0409
Barium, Total	ug/L	MW-3S	08/11/2016		106.0000	*	71.0409
Barium, Total	ug/L	MW-3S	09/30/2016		90.4000	*	71.0409
Barium, Total	ug/L	MW-3S	12/02/2016		101.0000	*	71.0409
Barium, Total	ug/L	MW-3S	01/31/2017		85.9000	*	71.0409
Barium, Total	ug/L	MW-3S	05/25/2017		80.0000	*	71.0409
Barium, Total	ug/L	MW-3S	08/11/2017		75.3000	*	71.0409
Barium, Total	ug/L	MW-3S	05/22/2018		73.9000	*	71.0409
Barium, Total	ug/L	MW-3S	09/11/2018		92.3000	*	71.0409
Barium, Total	ug/L	MW-3S	05/09/2019		97.0000	*	71.0409
Barium, Total	ug/L	MW-3S	11/13/2019		76.5000	*	71.0409
Barium, Total	ug/L	MW-3S	05/05/2020		131.0000	*	71.0409
Barium, Total	ug/L	MW-3S	11/10/2020		80.0000	*	71.0409
Barium, Total	ug/L	MW-3S	05/12/2021		114.0000	*	71.0409
Barium, Total	ug/L	MW-3S	11/18/2021		94.3000	*	71.0409
Barium, Total	ug/L	MW-3S	05/11/2022		141.0000	*	71.0409
Barium, Total	ug/L	MW-3S	11/16/2022		81.2000	*	71.0409
Barium, Total	ug/L	MW-3S	04/18/2023		116.0000	*	71.0409
Barium, Total	ug/L	MW-3S	10/09/2023		98.8000	*	71.0409
Barium, Total	ug/L	MW-6S	04/20/2016		190.0000	*	71.0409
Barium, Total	ug/L	MW-6S	06/01/2016		130.0000	*	71.0409
Barium, Total	ug/L	MW-6S	08/11/2016		133.0000	*	71.0409

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
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Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-6S	09/29/2016	114.0000 *	71.0409
Barium, Total	ug/L	MW-6S	12/01/2016	108.0000 *	71.0409
Barium, Total	ug/L	MW-6S	01/30/2017	161.0000 *	71.0409
Barium, Total	ug/L	MW-6S	05/25/2017	147.0000 *	71.0409
Barium, Total	ug/L	MW-6S	08/10/2017	158.0000 *	71.0409
Barium, Total	ug/L	MW-6S	05/22/2018	115.0000 *	71.0409
Barium, Total	ug/L	MW-6S	09/11/2018	84.7000 *	71.0409
Barium, Total	ug/L	MW-6S	05/08/2019	67.4000 *	71.0409
Barium, Total	ug/L	MW-6S	11/13/2019	122.0000 *	71.0409
Barium, Total	ug/L	MW-6S	05/08/2020	110.0000 *	71.0409
Barium, Total	ug/L	MW-6S	11/19/2020	115.0000 *	71.0409
Barium, Total	ug/L	MW-6S	05/18/2021	89.7000 *	71.0409
Barium, Total	ug/L	MW-6S	11/09/2021	86.4000 *	71.0409
Barium, Total	ug/L	MW-6S	05/11/2022	92.5000 *	71.0409
Barium, Total	ug/L	MW-6S	05/01/2023	73.1000 *	71.0409
Fluoride	mg/L	MW-10S	04/21/2016	0.3900 *	0.1000
Fluoride	mg/L	MW-10S	05/31/2016	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	08/11/2016	0.3700 *	0.1000
Fluoride	mg/L	MW-10S	09/29/2016	0.4100 *	0.1000
Fluoride	mg/L	MW-10S	11/30/2016	0.4100 *	0.1000
Fluoride	mg/L	MW-10S	01/30/2017	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	05/24/2017	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	08/09/2017	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	09/28/2017	0.3700 *	0.1000
Fluoride	mg/L	MW-10S	05/23/2018	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	09/11/2018	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	05/07/2019	0.2400 *	0.1000
Fluoride	mg/L	MW-10S	05/07/2020	0.3000 *	0.1000
Fluoride	mg/L	MW-10S	11/11/2020	0.2300 *	0.1000
Fluoride	mg/L	MW-10S	05/21/2021	0.2200 *	0.1000
Fluoride	mg/L	MW-10S	11/12/2021	0.2000 *	0.1000
Fluoride	mg/L	MW-10S	05/18/2022	0.2300 *	0.1000
Fluoride	mg/L	MW-10S	05/04/2023	0.1900 *	0.1000
Fluoride	mg/L	MW-11S	04/20/2016	0.3200 *	0.1000
Fluoride	mg/L	MW-11S	06/02/2016	0.3400 *	0.1000
Fluoride	mg/L	MW-11S	08/12/2016	0.3500 *	0.1000
Fluoride	mg/L	MW-11S	09/30/2016	0.4000 *	0.1000
Fluoride	mg/L	MW-11S	12/01/2016	0.4400 *	0.1000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
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Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-11S	01/31/2017	0.3100 *	0.1000
Fluoride	mg/L	MW-11S	05/25/2017	0.3300 *	0.1000
Fluoride	mg/L	MW-11S	08/10/2017	0.3300 *	0.1000
Fluoride	mg/L	MW-11S	09/28/2017	0.4000 *	0.1000
Fluoride	mg/L	MW-11S	05/23/2018	0.3000 *	0.1000
Fluoride	mg/L	MW-11S	09/11/2018	0.2900 *	0.1000
Fluoride	mg/L	MW-11S	05/08/2019	0.2300 *	0.1000
Fluoride	mg/L	MW-11S	05/07/2020	0.2200 *	0.1000
Fluoride	mg/L	MW-11S	11/12/2020	0.2000 *	0.1000
Fluoride	mg/L	MW-11S	05/17/2021	0.1600 *	0.1000
Fluoride	mg/L	MW-11S	11/17/2021	0.1500 *	0.1000
Fluoride	mg/L	MW-11S	05/12/2022	0.1700 *	0.1000
Fluoride	mg/L	MW-11S	11/21/2022	0.2000 *	0.1000
Fluoride	mg/L	MW-11S	05/02/2023	0.2100 *	0.1000
Fluoride	mg/L	MW-12S	04/20/2016	0.5800 *	0.1000
Fluoride	mg/L	MW-12S	06/01/2016	0.5700 *	0.1000
Fluoride	mg/L	MW-12S	08/11/2016	0.4700 *	0.1000
Fluoride	mg/L	MW-12S	09/29/2016	0.5100 *	0.1000
Fluoride	mg/L	MW-12S	12/01/2016	0.5200 *	0.1000
Fluoride	mg/L	MW-12S	01/30/2017	0.5200 *	0.1000
Fluoride	mg/L	MW-12S	05/25/2017	0.5400 *	0.1000
Fluoride	mg/L	MW-12S	08/10/2017	0.4000 *	0.1000
Fluoride	mg/L	MW-12S	09/27/2017	0.4400 *	0.1000
Fluoride	mg/L	MW-12S	05/23/2018	0.3300 *	0.1000
Fluoride	mg/L	MW-12S	09/12/2018	0.3200 *	0.1000
Fluoride	mg/L	MW-12S	05/08/2019	0.2800 *	0.1000
Fluoride	mg/L	MW-12S	05/08/2020	0.2100 *	0.1000
Fluoride	mg/L	MW-12S	11/12/2020	0.2800 *	0.1000
Fluoride	mg/L	MW-12S	05/13/2021	0.2800 *	0.1000
Fluoride	mg/L	MW-12S	11/10/2021	0.2200 *	0.1000
Fluoride	mg/L	MW-12S	05/12/2022	0.2300 *	0.1000
Fluoride	mg/L	MW-12S	11/15/2022	0.2400 *	0.1000
Fluoride	mg/L	MW-12S	04/27/2023	0.2400 *	0.1000
Fluoride	mg/L	MW-12S	10/11/2023	0.2000 *	0.1000
Fluoride	mg/L	MW-1S	04/19/2016	0.3300 *	0.1000
Fluoride	mg/L	MW-1S	06/02/2016	0.5200 *	0.1000
Fluoride	mg/L	MW-1S	08/10/2016	0.5500 *	0.1000
Fluoride	mg/L	MW-1S	09/30/2016	0.5100 *	0.1000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Fluoride	mg/L	MW-1S	12/02/2016		0.4900	*	0.1000
Fluoride	mg/L	MW-1S	01/31/2017		0.3000	*	0.1000
Fluoride	mg/L	MW-1S	05/26/2017		0.2900	*	0.1000
Fluoride	mg/L	MW-1S	08/11/2017		0.4700	*	0.1000
Fluoride	mg/L	MW-1S	09/28/2017		0.5300	*	0.1000
Fluoride	mg/L	MW-1S	05/23/2018		0.3400	*	0.1000
Fluoride	mg/L	MW-1S	09/11/2018		0.2500	*	0.1000
Fluoride	mg/L	MW-1S	05/08/2019		0.1300	*	0.1000
Fluoride	mg/L	MW-1S	11/14/2019		0.2900	*	0.1000
Fluoride	mg/L	MW-1S	05/05/2020		0.2600	*	0.1000
Fluoride	mg/L	MW-1S	11/11/2020		0.2400	*	0.1000
Fluoride	mg/L	MW-1S	05/25/2021	ND	0.1000		0.1000
Fluoride	mg/L	MW-1S	11/09/2021		0.1300	*	0.1000
Fluoride	mg/L	MW-1S	05/10/2022		0.1200	*	0.1000
Fluoride	mg/L	MW-1S	11/22/2022		0.2000	*	0.1000
Fluoride	mg/L	MW-1S	04/23/2023		0.1700	*	0.1000
Fluoride	mg/L	MW-1S	10/11/2023	ND	0.1000		0.1000
Fluoride	mg/L	MW-2S	04/19/2016		0.4200	*	0.1000
Fluoride	mg/L	MW-2S	06/01/2016		0.4000	*	0.1000
Fluoride	mg/L	MW-2S	08/11/2016		0.3700	*	0.1000
Fluoride	mg/L	MW-2S	09/30/2016		0.3500	*	0.1000
Fluoride	mg/L	MW-2S	12/02/2016		0.3100	*	0.1000
Fluoride	mg/L	MW-2S	01/31/2017		0.3800	*	0.1000
Fluoride	mg/L	MW-2S	05/26/2017		0.3500	*	0.1000
Fluoride	mg/L	MW-2S	08/11/2017		0.3300	*	0.1000
Fluoride	mg/L	MW-2S	09/27/2017		0.2500	*	0.1000
Fluoride	mg/L	MW-2S	05/22/2018		0.2300	*	0.1000
Fluoride	mg/L	MW-2S	09/11/2018		0.1300	*	0.1000
Fluoride	mg/L	MW-2S	05/09/2019		0.1500	*	0.1000
Fluoride	mg/L	MW-2S	11/14/2019		0.1700	*	0.1000
Fluoride	mg/L	MW-2S	05/08/2020		0.1200	*	0.1000
Fluoride	mg/L	MW-2S	11/11/2020		0.1500	*	0.1000
Fluoride	mg/L	MW-2S	05/11/2021		0.1100	*	0.1000
Fluoride	mg/L	MW-2S	11/10/2021		0.1600	*	0.1000
Fluoride	mg/L	MW-2S	05/11/2022		0.1300	*	0.1000
Fluoride	mg/L	MW-2S	11/15/2022		0.1400	*	0.1000
Fluoride	mg/L	MW-2S	04/18/2023		0.1600	*	0.1000
Fluoride	mg/L	MW-2S	10/10/2023		0.1600	*	0.1000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-3S	04/20/2016	0.2600 *	0.1000
Fluoride	mg/L	MW-3S	06/01/2016	0.2800 *	0.1000
Fluoride	mg/L	MW-3S	08/11/2016	0.2500 *	0.1000
Fluoride	mg/L	MW-3S	09/30/2016	0.2700 *	0.1000
Fluoride	mg/L	MW-3S	12/02/2016	0.3000 *	0.1000
Fluoride	mg/L	MW-3S	01/31/2017	0.2400 *	0.1000
Fluoride	mg/L	MW-3S	05/25/2017	0.2500 *	0.1000
Fluoride	mg/L	MW-3S	08/11/2017	0.3000 *	0.1000
Fluoride	mg/L	MW-3S	09/27/2017	0.3100 *	0.1000
Fluoride	mg/L	MW-3S	05/22/2018	0.2800 *	0.1000
Fluoride	mg/L	MW-3S	09/11/2018	0.2700 *	0.1000
Fluoride	mg/L	MW-3S	05/09/2019	0.2000 *	0.1000
Fluoride	mg/L	MW-3S	11/13/2019	0.3900 *	0.1000
Fluoride	mg/L	MW-3S	05/05/2020	0.3300 *	0.1000
Fluoride	mg/L	MW-3S	11/10/2020	0.3900 *	0.1000
Fluoride	mg/L	MW-3S	05/12/2021	0.3000 *	0.1000
Fluoride	mg/L	MW-3S	11/18/2021	0.2900 *	0.1000
Fluoride	mg/L	MW-3S	05/11/2022	0.2000 *	0.1000
Fluoride	mg/L	MW-3S	11/16/2022	0.3000 *	0.1000
Fluoride	mg/L	MW-3S	04/18/2023	0.2000 *	0.1000
Fluoride	mg/L	MW-3S	10/09/2023	0.2500 *	0.1000
Fluoride	mg/L	MW-6S	04/20/2016	0.2400 *	0.1000
Fluoride	mg/L	MW-6S	06/01/2016	0.2300 *	0.1000
Fluoride	mg/L	MW-6S	08/11/2016	0.2200 *	0.1000
Fluoride	mg/L	MW-6S	09/29/2016	0.2500 *	0.1000
Fluoride	mg/L	MW-6S	12/01/2016	0.2600 *	0.1000
Fluoride	mg/L	MW-6S	01/30/2017	0.2200 *	0.1000
Fluoride	mg/L	MW-6S	05/25/2017	0.2000 *	0.1000
Fluoride	mg/L	MW-6S	08/10/2017	0.2100 *	0.1000
Fluoride	mg/L	MW-6S	09/27/2017	0.2300 *	0.1000
Fluoride	mg/L	MW-6S	05/22/2018	0.1600 *	0.1000
Fluoride	mg/L	MW-6S	09/11/2018	0.2100 *	0.1000
Fluoride	mg/L	MW-6S	05/08/2019	0.1700 *	0.1000
Fluoride	mg/L	MW-6S	11/13/2019	0.2300 *	0.1000
Fluoride	mg/L	MW-6S	05/08/2020	0.1700 *	0.1000
Fluoride	mg/L	MW-6S	11/19/2020	0.2600 *	0.1000
Fluoride	mg/L	MW-6S	05/18/2021	0.1900 *	0.1000
Fluoride	mg/L	MW-6S	11/09/2021	0.2500 *	0.1000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-6S	05/11/2022	0.2500 *	0.1000
Fluoride	mg/L	MW-6S	05/01/2023	0.2500 *	0.1000
Lithium, Total	ug/L	MW-10S	04/21/2016	124.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/31/2016	110.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	08/11/2016	100.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	09/29/2016	99.8000 *	20.0000
Lithium, Total	ug/L	MW-10S	11/30/2016	102.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	01/30/2017	102.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/24/2017	110.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	08/09/2017	102.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/23/2018	91.9000 *	20.0000
Lithium, Total	ug/L	MW-10S	09/11/2018	74.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/07/2019	98.8000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/07/2020	114.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	11/11/2020	96.2000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/21/2021	96.6000 *	20.0000
Lithium, Total	ug/L	MW-10S	11/12/2021	93.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/18/2022	108.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/04/2023	88.7000 *	20.0000
Lithium, Total	ug/L	MW-11S	04/20/2016	115.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	06/02/2016	119.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	08/12/2016	105.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	09/30/2016	104.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	12/01/2016	99.6000 *	20.0000
Lithium, Total	ug/L	MW-11S	01/31/2017	101.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/25/2017	103.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	08/10/2017	108.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/23/2018	102.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	09/11/2018	109.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/08/2019	111.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/07/2020	111.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	11/12/2020	136.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/17/2021	114.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	11/17/2021	122.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/12/2022	99.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	11/21/2022	142.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/02/2023	51.4000 *	20.0000
Lithium, Total	ug/L	MW-12S	04/20/2016	94.5000 *	20.0000

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-12S	06/01/2016	91.7000 *	20.0000
Lithium, Total	ug/L	MW-12S	08/11/2016	82.1000 *	20.0000
Lithium, Total	ug/L	MW-12S	09/29/2016	83.5000 *	20.0000
Lithium, Total	ug/L	MW-12S	12/01/2016	94.9000 *	20.0000
Lithium, Total	ug/L	MW-12S	01/30/2017	80.6000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/25/2017	90.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	08/10/2017	91.1000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/23/2018	105.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	09/12/2018	86.2000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/08/2019	97.3000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/08/2020	117.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	11/12/2020	126.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/13/2021	113.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	11/10/2021	129.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/12/2022	117.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	11/15/2022	138.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	04/27/2023	97.7000 *	20.0000
Lithium, Total	ug/L	MW-12S	10/11/2023	129.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	04/19/2016	100.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	06/02/2016	110.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	08/10/2016	107.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	09/30/2016	92.2000 *	20.0000
Lithium, Total	ug/L	MW-1S	12/02/2016	93.8000 *	20.0000
Lithium, Total	ug/L	MW-1S	01/31/2017	98.9000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/26/2017	104.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	08/11/2017	111.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/23/2018	128.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	09/11/2018	90.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/08/2019	83.4000 *	20.0000
Lithium, Total	ug/L	MW-1S	11/14/2019	115.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/05/2020	124.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	11/11/2020	114.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/25/2021	70.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	11/09/2021	99.8000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/10/2022	102.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	11/22/2022	83.8000 *	20.0000
Lithium, Total	ug/L	MW-1S	04/23/2023	64.5000 *	20.0000
Lithium, Total	ug/L	MW-1S	10/11/2023	77.8000 *	20.0000

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-2S	04/19/2016	86.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	06/01/2016	79.6000 *	20.0000
Lithium, Total	ug/L	MW-2S	08/11/2016	79.2000 *	20.0000
Lithium, Total	ug/L	MW-2S	09/30/2016	88.8000 *	20.0000
Lithium, Total	ug/L	MW-2S	12/02/2016	105.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	01/31/2017	91.6000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/26/2017	101.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	08/11/2017	100.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/22/2018	107.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	09/11/2018	78.7000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/09/2019	102.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	11/14/2019	91.9000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/08/2020	92.6000 *	20.0000
Lithium, Total	ug/L	MW-2S	11/11/2020	74.8000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/11/2021	42.3000 *	20.0000
Lithium, Total	ug/L	MW-2S	11/10/2021	63.2000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/11/2022	52.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	11/15/2022	49.2000 *	20.0000
Lithium, Total	ug/L	MW-2S	04/18/2023	38.8000 *	20.0000
Lithium, Total	ug/L	MW-2S	10/10/2023	35.7000 *	20.0000
Lithium, Total	ug/L	MW-6S	04/20/2016	75.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	06/01/2016	70.9000 *	20.0000
Lithium, Total	ug/L	MW-6S	08/11/2016	73.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	09/29/2016	76.4000 *	20.0000
Lithium, Total	ug/L	MW-6S	12/01/2016	82.1000 *	20.0000
Lithium, Total	ug/L	MW-6S	01/30/2017	79.3000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/25/2017	68.7000 *	20.0000
Lithium, Total	ug/L	MW-6S	08/10/2017	53.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/22/2018	68.8000 *	20.0000
Lithium, Total	ug/L	MW-6S	09/11/2018	69.4000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/08/2019	21.5000 *	20.0000
Lithium, Total	ug/L	MW-6S	11/13/2019	77.2000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/08/2020	79.4000 *	20.0000
Lithium, Total	ug/L	MW-6S	11/19/2020	91.2000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/18/2021	99.5000 *	20.0000
Lithium, Total	ug/L	MW-6S	11/09/2021	91.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/11/2022	68.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/01/2023	52.2000 *	20.0000

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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	ug/L	MW-7S	04/20/2016		126.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	06/01/2016		162.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	08/11/2016		170.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	09/29/2016		164.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	12/01/2016		166.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	01/30/2017		148.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	05/25/2017		149.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	08/10/2017		153.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	05/23/2018		136.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	09/11/2018		103.0000	*	20.0000
Lithium, Total	ug/L	MW-7S	05/07/2019		30.7000	*	20.0000
Lithium, Total	ug/L	MW-7S	05/07/2020		31.2000	*	20.0000
Lithium, Total	ug/L	MW-7S	11/11/2020		25.6000	*	20.0000
Lithium, Total	ug/L	MW-7S	05/17/2021		31.1000	*	20.0000
Lithium, Total	ug/L	MW-7S	11/18/2021		31.8000	*	20.0000
Lithium, Total	ug/L	MW-7S	05/12/2022		31.6000	*	20.0000
Lithium, Total	ug/L	MW-7S	11/16/2022		30.9000	*	20.0000
Lithium, Total	ug/L	MW-7S	05/03/2023		37.6000	*	20.0000
Lithium, Total	ug/L	MW-7S	10/09/2023		54.4000	*	20.0000
Molybdenum, Total	ug/L	MW-10S	04/21/2016		155.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	05/31/2016		174.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	08/11/2016		204.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	09/29/2016		223.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	11/30/2016		202.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	01/30/2017		198.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	05/24/2017		188.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	08/09/2017		182.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	05/23/2018		168.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	09/11/2018		185.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	05/07/2019		86.2000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	05/07/2020		98.6000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	11/11/2020		90.0000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	05/21/2021		91.8000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	11/12/2021		77.6000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	05/18/2022		60.3000	*	10.0000
Molybdenum, Total	ug/L	MW-10S	05/04/2023		55.3000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	04/20/2016		181.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	06/02/2016		218.0000	*	10.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	ug/L	MW-11S	08/12/2016		256.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	09/30/2016		266.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	12/01/2016		334.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	01/31/2017		224.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/25/2017		248.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	08/10/2017		268.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/23/2018		269.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	09/11/2018		242.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/08/2019		147.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/07/2020		118.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	11/12/2020		74.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/17/2021		69.3000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	11/17/2021		75.2000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/12/2022		75.5000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	11/21/2022		56.4000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/02/2023		56.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	04/20/2016		118.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	06/01/2016		138.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	08/11/2016		136.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	09/29/2016		123.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	12/01/2016		154.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	01/30/2017		98.5000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/25/2017		104.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	08/10/2017		83.2000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/23/2018		51.5000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	09/12/2018		77.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/08/2019		42.4000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/08/2020		50.4000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	11/12/2020		63.8000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/13/2021		69.5000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	11/10/2021		33.8000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/12/2022		21.9000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	11/15/2022		36.4000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	04/27/2023		35.9000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	10/11/2023		15.0000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	04/19/2016		32.6000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	06/02/2016		71.7000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	08/10/2016		91.3000	*	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-1S	09/30/2016	71.5000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	12/02/2016	68.1000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	01/31/2017	41.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	05/26/2017	36.1000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	08/11/2017	67.9000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	05/23/2018	57.4000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	09/11/2018	33.1000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	05/08/2019	15.1000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	11/14/2019	55.4000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	05/05/2020	39.1000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	11/11/2020	55.1000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	05/25/2021	19.1000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	11/09/2021	24.4000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	05/10/2022	24.8000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	11/22/2022	30.7000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	04/23/2023	13.5000 *	10.0000
Molybdenum, Total	ug/L	MW-1S	10/11/2023	32.5000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	04/20/2016	54.5000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	06/01/2016	68.6000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	08/11/2016	48.7000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	09/30/2016	41.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	12/02/2016	39.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	01/31/2017	45.6000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/25/2017	43.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	08/11/2017	49.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/22/2018	39.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	09/11/2018	38.4000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/09/2019	38.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	11/13/2019	64.2000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/05/2020	61.7000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	11/10/2020	77.4000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/12/2021	56.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	11/18/2021	47.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/11/2022	52.6000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	11/16/2022	53.4000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	04/18/2023	21.1000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	10/09/2023	43.3000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	04/20/2016	93.6000 *	10.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	ug/L	MW-6S	06/01/2016		101.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	08/11/2016		116.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	09/29/2016		119.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	12/01/2016		127.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	01/30/2017		104.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	05/25/2017		77.9000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	08/10/2017		85.9000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	05/22/2018		80.1000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	09/11/2018		143.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	05/08/2019		39.6000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	11/13/2019		144.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	05/08/2020		90.7000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	11/19/2020		164.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	05/18/2021		138.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	11/09/2021		161.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	05/11/2022		81.4000	*	10.0000
Molybdenum, Total	ug/L	MW-6S	05/01/2023		83.8000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	04/20/2016		130.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	06/01/2016		195.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	08/11/2016		202.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	09/29/2016		189.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	12/01/2016		194.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	01/30/2017		183.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/25/2017		187.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	08/10/2017		192.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/23/2018		195.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	09/11/2018		121.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/07/2019		39.2000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/07/2020		42.2000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	11/11/2020		45.6000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/17/2021		39.9000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	11/18/2021		72.9000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/12/2022		45.6000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	11/16/2022		42.8000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/03/2023		27.8000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	10/09/2023		28.0000	*	10.0000
Selenium, Total	ug/L	MW-10S	04/21/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	05/31/2016	ND	10.0000		1.0000

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 *** - Manual exclusion.
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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	ug/L	MW-10S	08/11/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	09/29/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	11/30/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	01/30/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	05/24/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	08/09/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	05/23/2018		2.8000 *		1.0000
Selenium, Total	ug/L	MW-10S	09/11/2018	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-10S	05/07/2019		1.3000 *		1.0000
Selenium, Total	ug/L	MW-10S	05/07/2020		12.5000 *		1.0000
Selenium, Total	ug/L	MW-10S	11/11/2020		1.8000 *		1.0000
Selenium, Total	ug/L	MW-10S	05/21/2021		1.1000 *		1.0000
Selenium, Total	ug/L	MW-10S	11/12/2021		1.8000 *		1.0000
Selenium, Total	ug/L	MW-10S	05/18/2022		2.1000 *		1.0000
Selenium, Total	ug/L	MW-10S	05/04/2023		2.2000 *		1.0000
Selenium, Total	ug/L	MW-11S	04/20/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	06/02/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	08/12/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	09/30/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	12/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	01/31/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	05/25/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	08/10/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	05/23/2018		6.0000 *		1.0000
Selenium, Total	ug/L	MW-11S	09/11/2018		9.3000 *		1.0000
Selenium, Total	ug/L	MW-11S	05/08/2019		8.9000 *		1.0000
Selenium, Total	ug/L	MW-11S	05/07/2020		11.8000 *		1.0000
Selenium, Total	ug/L	MW-11S	11/12/2020		2.6000 *		1.0000
Selenium, Total	ug/L	MW-11S	05/17/2021		11.1000 *		1.0000
Selenium, Total	ug/L	MW-11S	11/17/2021		8.6000 *		1.0000
Selenium, Total	ug/L	MW-11S	05/12/2022		10.4000 *		1.0000
Selenium, Total	ug/L	MW-11S	11/21/2022		13.9000 *		1.0000
Selenium, Total	ug/L	MW-11S	05/02/2023		11.3000 *		1.0000
Selenium, Total	ug/L	MW-12S	04/20/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	06/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	08/11/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	09/29/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	12/01/2016	ND	10.0000		1.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	ug/L	MW-12S	01/30/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	05/25/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	08/10/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	05/23/2018	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-12S	09/12/2018		2.0000	*	1.0000
Selenium, Total	ug/L	MW-12S	05/08/2019		30.3000	*	1.0000
Selenium, Total	ug/L	MW-12S	05/08/2020		41.6000	*	1.0000
Selenium, Total	ug/L	MW-12S	11/12/2020		16.7000	*	1.0000
Selenium, Total	ug/L	MW-12S	05/13/2021		12.4000	*	1.0000
Selenium, Total	ug/L	MW-12S	11/10/2021		15.3000	*	1.0000
Selenium, Total	ug/L	MW-12S	05/12/2022		16.2000	*	1.0000
Selenium, Total	ug/L	MW-12S	11/15/2022		32.4000	*	1.0000
Selenium, Total	ug/L	MW-12S	04/27/2023		8.3000	*	1.0000
Selenium, Total	ug/L	MW-12S	10/11/2023		23.7000	*	1.0000
Selenium, Total	ug/L	MW-1S	04/19/2016		16.8000	*	1.0000
Selenium, Total	ug/L	MW-1S	06/02/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-1S	08/10/2016		14.0000	*	1.0000
Selenium, Total	ug/L	MW-1S	09/30/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-1S	12/02/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-1S	01/31/2017		16.2000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/26/2017		15.7000	*	1.0000
Selenium, Total	ug/L	MW-1S	08/11/2017		11.2000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/23/2018		23.5000	*	1.0000
Selenium, Total	ug/L	MW-1S	09/11/2018		10.7000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/08/2019		21.0000	*	1.0000
Selenium, Total	ug/L	MW-1S	11/14/2019		6.9000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/05/2020		9.6000	*	1.0000
Selenium, Total	ug/L	MW-1S	11/11/2020		6.6000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/25/2021		24.4000	*	1.0000
Selenium, Total	ug/L	MW-1S	11/09/2021		21.7000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/10/2022		19.8000	*	1.0000
Selenium, Total	ug/L	MW-1S	11/22/2022		28.0000	*	1.0000
Selenium, Total	ug/L	MW-1S	04/23/2023		28.2000	*	1.0000
Selenium, Total	ug/L	MW-1S	10/11/2023		16.0000	*	1.0000
Selenium, Total	ug/L	MW-2S	04/19/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	06/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	08/11/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	09/30/2016	ND	10.0000		1.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
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Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	ug/L	MW-2S	12/02/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	01/31/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	05/26/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	08/11/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	05/22/2018		2.4000	*	1.0000
Selenium, Total	ug/L	MW-2S	09/11/2018		2.5000	*	1.0000
Selenium, Total	ug/L	MW-2S	05/09/2019		21.9000	*	1.0000
Selenium, Total	ug/L	MW-2S	11/14/2019		11.4000	*	1.0000
Selenium, Total	ug/L	MW-2S	05/08/2020		97.6000	*	1.0000
Selenium, Total	ug/L	MW-2S	11/11/2020		9.6000	*	1.0000
Selenium, Total	ug/L	MW-2S	05/11/2021		5.5000	*	1.0000
Selenium, Total	ug/L	MW-2S	11/10/2021		28.7000	*	1.0000
Selenium, Total	ug/L	MW-2S	05/11/2022		23.7000	*	1.0000
Selenium, Total	ug/L	MW-2S	11/15/2022		7.7000	*	1.0000
Selenium, Total	ug/L	MW-2S	04/18/2023		25.7000	*	1.0000
Selenium, Total	ug/L	MW-2S	10/10/2023		4.5000	*	1.0000
Selenium, Total	ug/L	MW-3S	04/20/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-3S	06/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-3S	08/11/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-3S	09/30/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-3S	12/02/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-3S	01/31/2017		10.7000	*	1.0000
Selenium, Total	ug/L	MW-3S	05/25/2017		13.9000	*	1.0000
Selenium, Total	ug/L	MW-3S	08/11/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-3S	05/22/2018		1.1000	*	1.0000
Selenium, Total	ug/L	MW-3S	09/11/2018	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-3S	05/09/2019		8.1000	*	1.0000
Selenium, Total	ug/L	MW-3S	11/13/2019	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-3S	05/05/2020	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-3S	11/10/2020	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-3S	05/12/2021	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-3S	11/18/2021		5.9000	*	1.0000
Selenium, Total	ug/L	MW-3S	05/11/2022		17.9000	*	1.0000
Selenium, Total	ug/L	MW-3S	11/16/2022		1.8000	*	1.0000
Selenium, Total	ug/L	MW-3S	04/18/2023		7.3000	*	1.0000
Selenium, Total	ug/L	MW-3S	10/09/2023	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-6S	04/20/2016		15.5000	*	1.0000
Selenium, Total	ug/L	MW-6S	06/01/2016		12.4000	*	1.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	ug/L	MW-6S	08/11/2016		11.0000 *		1.0000
Selenium, Total	ug/L	MW-6S	09/29/2016		12.0000 *		1.0000
Selenium, Total	ug/L	MW-6S	12/01/2016		12.9000 *		1.0000
Selenium, Total	ug/L	MW-6S	01/30/2017		14.0000 *		1.0000
Selenium, Total	ug/L	MW-6S	05/25/2017		12.3000 *		1.0000
Selenium, Total	ug/L	MW-6S	08/10/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-6S	05/22/2018		11.8000 *		1.0000
Selenium, Total	ug/L	MW-6S	09/11/2018		1.2000 *		1.0000
Selenium, Total	ug/L	MW-6S	05/08/2019		6.5000 *		1.0000
Selenium, Total	ug/L	MW-6S	11/13/2019		6.9000 *		1.0000
Selenium, Total	ug/L	MW-6S	05/08/2020		14.8000 *		1.0000
Selenium, Total	ug/L	MW-6S	11/19/2020		9.7000 *		1.0000
Selenium, Total	ug/L	MW-6S	05/18/2021		14.2000 *		1.0000
Selenium, Total	ug/L	MW-6S	11/09/2021		2.2000 *		1.0000
Selenium, Total	ug/L	MW-6S	05/11/2022		16.8000 *		1.0000
Selenium, Total	ug/L	MW-6S	05/01/2023		36.4000 *		1.0000
Selenium, Total	ug/L	MW-7S	04/20/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	06/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	08/11/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	09/29/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	12/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	01/30/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	05/25/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	08/10/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	05/23/2018		6.0000 *		1.0000
Selenium, Total	ug/L	MW-7S	09/11/2018		12.0000 *		1.0000
Selenium, Total	ug/L	MW-7S	05/07/2019		6.0000 *		1.0000
Selenium, Total	ug/L	MW-7S	05/07/2020		19.2000 *		1.0000
Selenium, Total	ug/L	MW-7S	11/11/2020		12.0000 *		1.0000
Selenium, Total	ug/L	MW-7S	05/17/2021		22.7000 *		1.0000
Selenium, Total	ug/L	MW-7S	11/18/2021		40.6000 *		1.0000
Selenium, Total	ug/L	MW-7S	05/12/2022		25.8000 *		1.0000
Selenium, Total	ug/L	MW-7S	11/16/2022		17.7000 *		1.0000
Selenium, Total	ug/L	MW-7S	05/03/2023		22.5000 *		1.0000
Selenium, Total	ug/L	MW-7S	10/09/2023		26.8000 *		1.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program

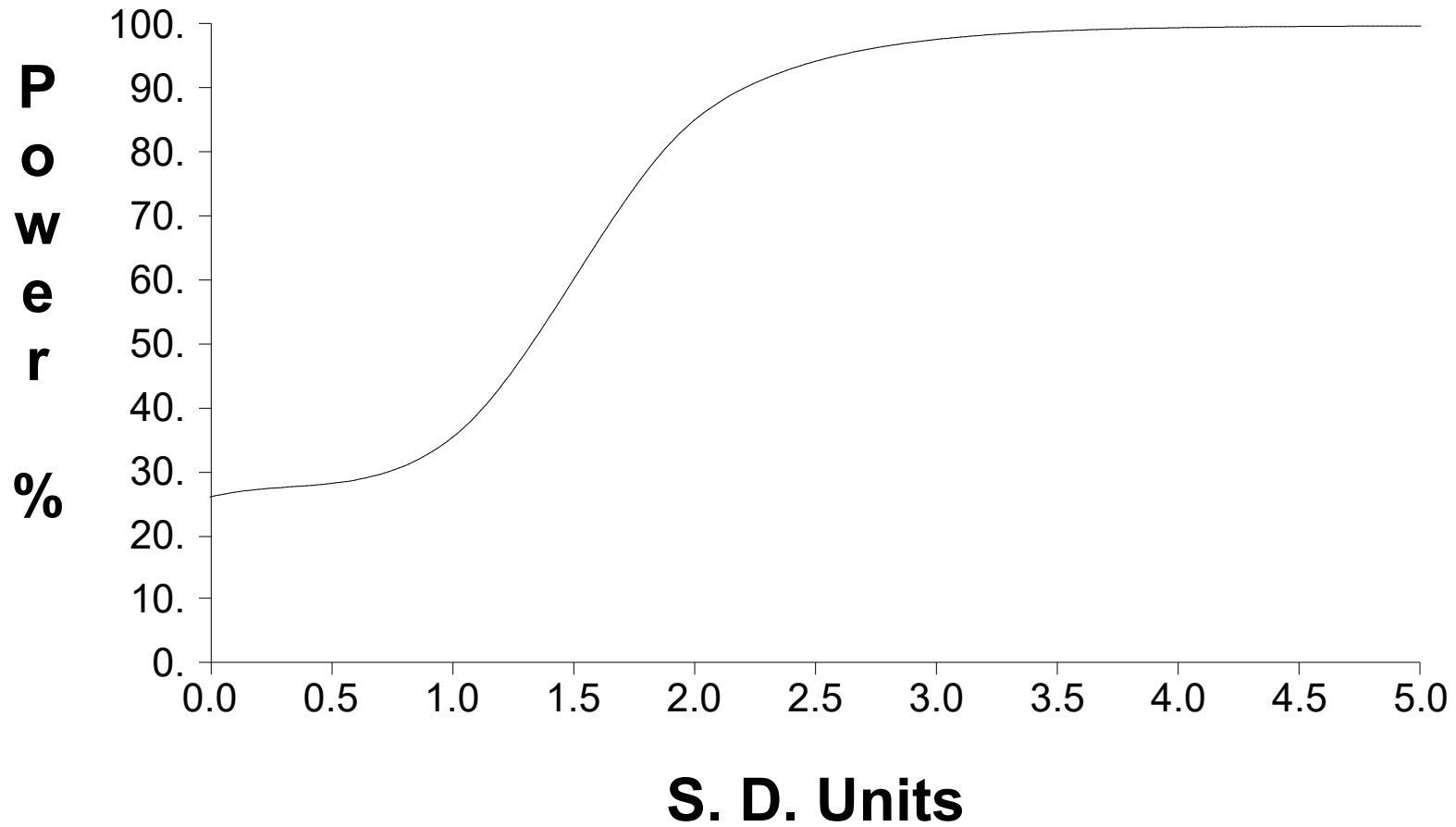


Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, Total	ug/L	MW-13I	08/08/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13I	09/24/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13I	05/07/2020	ND	6.0000	1.0000	**
Antimony, Total	ug/L	MW-13I	11/12/2020	ND	1.0000		
Antimony, Total	ug/L	MW-13I	02/25/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	03/29/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	05/20/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	06/22/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	07/27/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	11/16/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	05/19/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13I	11/18/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13I	04/18/2023	ND	1.0000		
Antimony, Total	ug/L	MW-13I	10/11/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	08/08/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	09/24/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	05/07/2020	ND	10.0000	1.0000	**
Arsenic, Total	ug/L	MW-13I	11/12/2020	ND	2.0000		
Arsenic, Total	ug/L	MW-13I	02/25/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	03/29/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	05/20/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	06/22/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	07/27/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	11/16/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	05/19/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	11/18/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	04/18/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	10/11/2023	ND	1.0000		
Barium, Total	ug/L	MW-13I	08/08/2019		36.0000		
Barium, Total	ug/L	MW-13I	09/24/2019		35.6000		
Barium, Total	ug/L	MW-13I	05/07/2020		38.1000		
Barium, Total	ug/L	MW-13I	11/12/2020		38.0000		
Barium, Total	ug/L	MW-13I	02/25/2021		42.2000		
Barium, Total	ug/L	MW-13I	03/29/2021		46.0000		
Barium, Total	ug/L	MW-13I	05/20/2021		42.4000		
Barium, Total	ug/L	MW-13I	06/22/2021		41.3000		
Barium, Total	ug/L	MW-13I	07/27/2021		43.6000		
Barium, Total	ug/L	MW-13I	11/16/2021		37.9000		
Barium, Total	ug/L	MW-13I	05/19/2022		44.0000		
Barium, Total	ug/L	MW-13I	11/18/2022		42.2000		
Barium, Total	ug/L	MW-13I	04/18/2023		37.8000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted			
Barium, Total	ug/L	MW-13I	10/11/2023		35.4000				
Beryllium, Total	ug/L	MW-13I	08/08/2019	ND	0.2000	0.2000	**		
Beryllium, Total	ug/L	MW-13I	09/24/2019	ND	0.2000				
Beryllium, Total	ug/L	MW-13I	05/07/2020	ND	4.0000				
Beryllium, Total	ug/L	MW-13I	11/12/2020	ND	0.2000				
Beryllium, Total	ug/L	MW-13I	02/25/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13I	03/29/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13I	05/20/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13I	06/22/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13I	07/27/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13I	05/19/2022	ND	0.2000				
Beryllium, Total	ug/L	MW-13I	04/18/2023	ND	0.2000				
Cadmium, Total	ug/L	MW-13I	08/08/2019	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	09/24/2019	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	05/07/2020	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	11/12/2020	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	02/25/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	03/29/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	05/20/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	06/22/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	07/27/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	05/19/2022	ND	2.0000				
Cadmium, Total	ug/L	MW-13I	04/18/2023	ND	2.0000				
Chromium, Total	ug/L	MW-13I	08/08/2019	ND	10.0000				
Chromium, Total	ug/L	MW-13I	09/24/2019	ND	10.0000				
Chromium, Total	ug/L	MW-13I	05/07/2020	ND	10.0000				
Chromium, Total	ug/L	MW-13I	11/12/2020	ND	10.0000				
Chromium, Total	ug/L	MW-13I	02/25/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13I	03/29/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13I	05/20/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13I	06/22/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13I	07/27/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13I	05/19/2022	ND	10.0000				
Chromium, Total	ug/L	MW-13I	04/18/2023	ND	10.0000				
Cobalt, Total	ug/L	MW-13I	08/08/2019	ND	1.0000	1.0000	**		
Cobalt, Total	ug/L	MW-13I	09/24/2019	ND	1.0000				
Cobalt, Total	ug/L	MW-13I	05/07/2020	ND	10.0000				
Cobalt, Total	ug/L	MW-13I	11/12/2020	ND	1.0000				
Cobalt, Total	ug/L	MW-13I	02/25/2021	ND	1.0000				
Cobalt, Total	ug/L	MW-13I	03/29/2021	ND	1.0000				
Cobalt, Total	ug/L	MW-13I	05/20/2021	ND	1.0000				

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted
Cobalt, Total	ug/L	MW-13I	06/22/2021	ND	1.0000	
Cobalt, Total	ug/L	MW-13I	07/27/2021	ND	1.0000	
Cobalt, Total	ug/L	MW-13I	11/16/2021	ND	1.0000	
Cobalt, Total	ug/L	MW-13I	05/19/2022	ND	1.0000	
Cobalt, Total	ug/L	MW-13I	04/18/2023	ND	1.0000	
Cobalt, Total	ug/L	MW-13I	10/11/2023	ND	1.0000	
Fluoride	mg/L	MW-13I	08/08/2019	ND	0.1000	
Fluoride	mg/L	MW-13I	09/24/2019	ND	0.1000	
Fluoride	mg/L	MW-13I	05/07/2020	ND	0.1000	
Fluoride	mg/L	MW-13I	11/12/2020	ND	0.1000	
Fluoride	mg/L	MW-13I	02/25/2021	ND	0.1000	
Fluoride	mg/L	MW-13I	03/29/2021	ND	0.1000	
Fluoride	mg/L	MW-13I	05/20/2021	ND	0.1000	
Fluoride	mg/L	MW-13I	06/22/2021	ND	0.1000	
Fluoride	mg/L	MW-13I	07/27/2021	ND	0.1000	
Fluoride	mg/L	MW-13I	11/16/2021	ND	0.1000	
Fluoride	mg/L	MW-13I	05/19/2022	ND	0.1000	
Fluoride	mg/L	MW-13I	11/18/2022	ND	0.1000	
Fluoride	mg/L	MW-13I	04/18/2023	ND	0.1000	
Fluoride	mg/L	MW-13I	10/11/2023	ND	0.1000	
Lead, Total	ug/L	MW-13I	08/08/2019	ND	10.0000	
Lead, Total	ug/L	MW-13I	09/24/2019	ND	10.0000	
Lead, Total	ug/L	MW-13I	05/07/2020	ND	10.0000	
Lead, Total	ug/L	MW-13I	11/12/2020	ND	10.0000	
Lead, Total	ug/L	MW-13I	02/25/2021	ND	10.0000	
Lead, Total	ug/L	MW-13I	03/29/2021	ND	10.0000	
Lead, Total	ug/L	MW-13I	05/20/2021	ND	10.0000	
Lead, Total	ug/L	MW-13I	06/22/2021	ND	10.0000	
Lead, Total	ug/L	MW-13I	07/27/2021	ND	10.0000	
Lead, Total	ug/L	MW-13I	05/19/2022	ND	10.0000	
Lead, Total	ug/L	MW-13I	04/18/2023	ND	10.0000	
Lithium, Total	ug/L	MW-13I	08/08/2019	ND	20.0000	
Lithium, Total	ug/L	MW-13I	09/24/2019	ND	20.0000	
Lithium, Total	ug/L	MW-13I	05/07/2020	ND	20.0000	
Lithium, Total	ug/L	MW-13I	11/12/2020	ND	20.0000	
Lithium, Total	ug/L	MW-13I	02/25/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13I	03/29/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13I	05/20/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13I	06/22/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13I	07/27/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13I	11/16/2021	ND	20.0000	

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lithium, Total	ug/L	MW-13I	05/19/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13I	11/18/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13I	04/18/2023	ND	20.0000		
Lithium, Total	ug/L	MW-13I	10/11/2023	ND	20.0000		
Mercury	ug/L	MW-13I	08/08/2019	ND	2.0000		
Mercury	ug/L	MW-13I	09/24/2019	ND	2.0000		
Mercury	ug/L	MW-13I	11/12/2020	ND	2.0000		
Mercury	ug/L	MW-13I	02/25/2021	ND	2.0000		
Mercury	ug/L	MW-13I	03/29/2021	ND	2.0000		
Mercury	ug/L	MW-13I	05/20/2021	ND	2.0000		
Mercury	ug/L	MW-13I	06/22/2021	ND	2.0000		
Mercury	ug/L	MW-13I	07/27/2021	ND	2.0000		
Mercury	ug/L	MW-13I	05/19/2022	ND	0.2000	2.0000	**
Mercury	ug/L	MW-13I	04/18/2023	ND	0.2000	2.0000	**
Molybdenum, Total	ug/L	MW-13I	08/08/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	09/24/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	05/07/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	11/12/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	02/25/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	03/29/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	05/20/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	06/22/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	07/27/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	11/16/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	05/19/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	11/18/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	04/18/2023	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	10/11/2023	ND	10.0000		
Selenium, Total	ug/L	MW-13I	08/08/2019	ND	1.0000		
Selenium, Total	ug/L	MW-13I	09/24/2019	ND	1.0000		
Selenium, Total	ug/L	MW-13I	05/07/2020	ND	10.0000	1.0000	**
Selenium, Total	ug/L	MW-13I	11/12/2020	ND	1.0000		
Selenium, Total	ug/L	MW-13I	02/25/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	03/29/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	05/20/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	06/22/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	07/27/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	11/16/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	05/19/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13I	11/18/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13I	04/18/2023	ND	1.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, Total	ug/L	MW-13I	10/11/2023	ND	1.0000		
Thallium, Total	ug/L	MW-13I	08/08/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13I	09/24/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13I	05/07/2020	ND	10.0000	1.0000	**
Thallium, Total	ug/L	MW-13I	11/12/2020	ND	1.0000		
Thallium, Total	ug/L	MW-13I	02/25/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	03/29/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	05/20/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	06/22/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	07/27/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	05/19/2022	ND	1.0000		
Thallium, Total	ug/L	MW-13I	04/18/2023	ND	1.0000		
Total Radium	pCi/L	MW-13I	08/08/2019		0.8760		
Total Radium	pCi/L	MW-13I	09/24/2019		1.1500		
Total Radium	pCi/L	MW-13I	11/12/2020		0.7030		
Total Radium	pCi/L	MW-13I	02/25/2021		1.0800		
Total Radium	pCi/L	MW-13I	03/29/2021	ND	1.4900		
Total Radium	pCi/L	MW-13I	05/20/2021	ND	2.0100	1.4900	**
Total Radium	pCi/L	MW-13I	06/22/2021		0.8170		
Total Radium	pCi/L	MW-13I	07/27/2021	ND	1.3500	1.4900	**
Total Radium	pCi/L	MW-13I	11/16/2021		0.5810		
Total Radium	pCi/L	MW-13I	05/19/2022		1.2800		
Total Radium	pCi/L	MW-13I	11/18/2022		1.0300		
Total Radium	pCi/L	MW-13I	04/18/2023	ND	1.8800	1.4900	**
Total Radium	pCi/L	MW-13I	10/11/2023		0.7400		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-11I	10/09/2023	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-1I	10/11/2023	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-2I	10/10/2023	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-3I	10/09/2023	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6I	10/10/2023	ND	1.0000		1.0000
Arsenic, Total	ug/L	MW-11I	10/09/2023		1.4000		2.0000
Arsenic, Total	ug/L	MW-1I	10/11/2023	ND	1.0000		2.0000
Arsenic, Total	ug/L	MW-2I	10/10/2023	ND	1.0000		2.0000
Arsenic, Total	ug/L	MW-3I	10/09/2023	ND	1.0000		2.0000
Arsenic, Total	ug/L	MW-6I	10/10/2023	ND	1.0000		2.0000
Barium, Total	ug/L	MW-11I	10/09/2023		58.8000	***	49.5105
Barium, Total	ug/L	MW-1I	10/11/2023		63.4000	***	49.5105
Barium, Total	ug/L	MW-2I	10/10/2023		75.1000	***	49.5105
Barium, Total	ug/L	MW-3I	10/09/2023		55.1000	***	49.5105
Barium, Total	ug/L	MW-6I	10/10/2023		76.4000	***	49.5105
Beryllium, Total	ug/L	MW-11I	05/02/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-1I	04/19/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-2I	04/19/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-3I	04/17/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-6I	05/01/2023	ND	0.2000		0.2000
Cadmium, Total	ug/L	MW-11I	05/02/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-1I	04/19/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-2I	04/19/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-3I	04/17/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-6I	05/01/2023	ND	2.0000		2.0000
Chromium, Total	ug/L	MW-11I	05/02/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-1I	04/19/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-2I	04/19/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-3I	04/17/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-6I	05/01/2023	ND	10.0000		10.0000
Cobalt, Total	ug/L	MW-11I	10/09/2023	ND	1.0000		1.0000
Cobalt, Total	ug/L	MW-1I	10/11/2023	ND	1.0000		1.0000
Cobalt, Total	ug/L	MW-2I	10/10/2023	ND	1.0000		1.0000
Cobalt, Total	ug/L	MW-3I	10/09/2023	ND	1.0000		1.0000
Cobalt, Total	ug/L	MW-6I	10/10/2023	ND	1.0000		1.0000
Fluoride	mg/L	MW-11I	10/09/2023		0.3800	***	0.1000
Fluoride	mg/L	MW-1I	10/11/2023		0.2600	***	0.1000
Fluoride	mg/L	MW-2I	10/10/2023		0.2700	***	0.1000
Fluoride	mg/L	MW-3I	10/09/2023		0.4000	***	0.1000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Fluoride	mg/L	MW-6I	10/10/2023		0.2900	***	0.1000
Lead, Total	ug/L	MW-11I	05/02/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-1I	04/19/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-2I	04/19/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-3I	04/17/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-6I	05/01/2023	ND	10.0000		10.0000
Lithium, Total	ug/L	MW-11I	10/09/2023		107.0000	***	20.0000
Lithium, Total	ug/L	MW-1I	10/11/2023		86.9000	***	20.0000
Lithium, Total	ug/L	MW-2I	10/10/2023		32.9000	***	20.0000
Lithium, Total	ug/L	MW-3I	10/09/2023	ND	20.0000		20.0000
Lithium, Total	ug/L	MW-6I	10/10/2023		100.0000	***	20.0000
Mercury	ug/L	MW-11I	05/02/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-1I	04/19/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-2I	04/19/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-3I	04/17/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-6I	05/01/2023	ND	0.2000		2.0000
Molybdenum, Total	ug/L	MW-11I	10/09/2023		122.0000	***	10.0000
Molybdenum, Total	ug/L	MW-1I	10/11/2023		81.5000	***	10.0000
Molybdenum, Total	ug/L	MW-2I	10/10/2023		76.7000	***	10.0000
Molybdenum, Total	ug/L	MW-3I	10/09/2023		56.2000	***	10.0000
Molybdenum, Total	ug/L	MW-6I	10/10/2023		160.0000	***	10.0000
Selenium, Total	ug/L	MW-11I	10/09/2023	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-1I	10/11/2023	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-2I	10/10/2023	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-3I	10/09/2023	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-6I	10/10/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-11I	05/02/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-1I	04/19/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-2I	04/19/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-3I	04/17/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-6I	05/01/2023	ND	1.0000		1.0000
Total Radium	pCi/L	MW-11I	10/09/2023		2.4400	*	1.9708
Total Radium	pCi/L	MW-1I	10/11/2023		1.6600		1.9708
Total Radium	pCi/L	MW-2I	10/10/2023		1.5500		1.9708
Total Radium	pCi/L	MW-3I	10/09/2023		1.2600		1.9708
Total Radium	pCi/L	MW-6I	10/10/2023		1.7100		1.9708

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	14	0.000	0	100	0.000
Arsenic, Total	1	14	0.071	8	100	0.080
Barium, Total	14	14	1.000	100	100	1.000
Beryllium, Total	0	11	0.000	0	70	0.000
Cadmium, Total	0	11	0.000	0	70	0.000
Chromium, Total	0	11	0.000	0	70	0.000
Cobalt, Total	1	13	0.077	0	95	0.000
Fluoride	0	14	0.000	105	105	1.000
Lead, Total	0	11	0.000	0	70	0.000
Lithium, Total	0	14	0.000	95	100	0.950
Mercury	0	10	0.000	0	70	0.000
Molybdenum, Total	0	14	0.000	100	100	1.000
Selenium, Total	0	14	0.000	0	100	0.000
Thallium, Total	0	11	0.000	0	70	0.000
Total Radium	9	13	0.692	90	100	0.900

N = Total number of measurements in all wells.
 Detect = Total number of detections in all wells.
 Proportion = Detect/N.

Table C-4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Arsenic, Total	1	14	0.071	20.331	20.331					2.326	non-norm	nonpar
Barium, Total	14	14	1.000	0.728	0.747					2.326	normal	normal
Beryllium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Cadmium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Chromium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Cobalt, Total	1	13	0.077	3.936	3.936					2.326	non-norm	nonpar
Fluoride	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Lead, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Lithium, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Mercury	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Molybdenum, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Selenium, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Thallium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Total Radium	9	13	0.692	1.095	0.897					2.326	normal	normal

* - Distribution override for that constituent.
 Fit to distribution is confirmed if G <= critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table C-5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, Total	ug/L	0	14					1.0000	nonpar	***	0.96
Arsenic, Total	ug/L	1	14					2.0000	nonpar		0.96
Barium, Total	ug/L	14	14	40.0357	3.4580	0.0100	2.7400	49.5105	normal		
Beryllium, Total	ug/L	0	11					0.2000	nonpar	***	0.94
Cadmium, Total	ug/L	0	11					2.0000	nonpar	***	0.94
Chromium, Total	ug/L	0	11					10.0000	nonpar	***	0.94
Cobalt, Total	ug/L	1	13					1.0000	nonpar	***	0.96
Fluoride	mg/L	0	14					0.1000	nonpar	***	0.96
Lead, Total	ug/L	0	11					10.0000	nonpar	***	0.94
Lithium, Total	ug/L	0	14					20.0000	nonpar	***	0.96
Mercury	ug/L	0	10					2.0000	nonpar	***	0.93
Molybdenum, Total	ug/L	0	14					10.0000	nonpar	***	0.96
Selenium, Total	ug/L	0	14					1.0000	nonpar	***	0.96
Thallium, Total	ug/L	0	11					1.0000	nonpar	***	0.94
Total Radium	pCi/L	9	13	0.6352	0.4808	0.0100	2.7779	1.9708	normal		

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table C-6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
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N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-111	04/20/2016	72.6000 *	49.5105
Barium, Total	ug/L	MW-111	06/02/2016	68.4000 *	49.5105
Barium, Total	ug/L	MW-111	08/12/2016	69.2000 *	49.5105
Barium, Total	ug/L	MW-111	09/30/2016	67.5000 *	49.5105
Barium, Total	ug/L	MW-111	12/01/2016	74.8000 *	49.5105
Barium, Total	ug/L	MW-111	01/31/2017	65.3000 *	49.5105
Barium, Total	ug/L	MW-111	05/25/2017	71.5000 *	49.5105
Barium, Total	ug/L	MW-111	08/10/2017	65.1000 *	49.5105
Barium, Total	ug/L	MW-111	05/22/2018	66.1000 *	49.5105
Barium, Total	ug/L	MW-111	09/12/2018	72.6000 *	49.5105
Barium, Total	ug/L	MW-111	05/08/2019	65.1000 *	49.5105
Barium, Total	ug/L	MW-111	11/14/2019	64.1000 *	49.5105
Barium, Total	ug/L	MW-111	05/07/2020	55.8000 *	49.5105
Barium, Total	ug/L	MW-111	11/12/2020	43.0000	49.5105
Barium, Total	ug/L	MW-111	05/17/2021	53.0000 *	49.5105
Barium, Total	ug/L	MW-111	11/17/2021	62.3000 *	49.5105
Barium, Total	ug/L	MW-111	05/12/2022	50.3000 *	49.5105
Barium, Total	ug/L	MW-111	11/21/2022	73.2000 *	49.5105
Barium, Total	ug/L	MW-111	05/02/2023	51.0000 *	49.5105
Barium, Total	ug/L	MW-111	10/09/2023	58.8000 *	49.5105
Barium, Total	ug/L	MW-11	04/19/2016	52.8000 *	49.5105
Barium, Total	ug/L	MW-11	06/02/2016	50.4000 *	49.5105
Barium, Total	ug/L	MW-11	08/10/2016	54.4000 *	49.5105
Barium, Total	ug/L	MW-11	09/30/2016	56.2000 *	49.5105
Barium, Total	ug/L	MW-11	12/02/2016	60.0000 *	49.5105
Barium, Total	ug/L	MW-11	01/31/2017	52.0000 *	49.5105
Barium, Total	ug/L	MW-11	05/26/2017	49.8000 *	49.5105
Barium, Total	ug/L	MW-11	08/11/2017	56.5000 *	49.5105
Barium, Total	ug/L	MW-11	05/23/2018	75.6000 *	49.5105
Barium, Total	ug/L	MW-11	09/11/2018	65.7000 *	49.5105
Barium, Total	ug/L	MW-11	05/08/2019	59.4000 *	49.5105
Barium, Total	ug/L	MW-11	11/14/2019	57.6000 *	49.5105
Barium, Total	ug/L	MW-11	05/05/2020	55.0000 *	49.5105
Barium, Total	ug/L	MW-11	11/11/2020	55.2000 *	49.5105
Barium, Total	ug/L	MW-11	05/25/2021	55.4000 *	49.5105
Barium, Total	ug/L	MW-11	11/09/2021	50.4000 *	49.5105
Barium, Total	ug/L	MW-11	05/10/2022	54.1000 *	49.5105
Barium, Total	ug/L	MW-11	11/22/2022	81.9000 *	49.5105

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-11	04/19/2023	52.7000 *	49.5105
Barium, Total	ug/L	MW-11	10/11/2023	63.4000 *	49.5105
Barium, Total	ug/L	MW-21	04/19/2016	76.3000 *	49.5105
Barium, Total	ug/L	MW-21	06/01/2016	61.9000 *	49.5105
Barium, Total	ug/L	MW-21	08/11/2016	65.0000 *	49.5105
Barium, Total	ug/L	MW-21	09/30/2016	59.7000 *	49.5105
Barium, Total	ug/L	MW-21	12/02/2016	66.5000 *	49.5105
Barium, Total	ug/L	MW-21	01/31/2017	74.4000 *	49.5105
Barium, Total	ug/L	MW-21	05/26/2017	82.4000 *	49.5105
Barium, Total	ug/L	MW-21	08/11/2017	85.2000 *	49.5105
Barium, Total	ug/L	MW-21	05/22/2018	64.6000 *	49.5105
Barium, Total	ug/L	MW-21	09/11/2018	53.7000 *	49.5105
Barium, Total	ug/L	MW-21	05/09/2019	61.8000 *	49.5105
Barium, Total	ug/L	MW-21	11/13/2019	65.2000 *	49.5105
Barium, Total	ug/L	MW-21	05/05/2020	60.1000 *	49.5105
Barium, Total	ug/L	MW-21	11/11/2020	69.2000 *	49.5105
Barium, Total	ug/L	MW-21	05/11/2021	82.3000 *	49.5105
Barium, Total	ug/L	MW-21	11/10/2021	69.3000 *	49.5105
Barium, Total	ug/L	MW-21	05/11/2022	67.9000 *	49.5105
Barium, Total	ug/L	MW-21	11/15/2022	109.0000 *	49.5105
Barium, Total	ug/L	MW-21	04/19/2023	94.9000 *	49.5105
Barium, Total	ug/L	MW-21	10/10/2023	75.1000 *	49.5105
Barium, Total	ug/L	MW-31	04/20/2016	73.9000 *	49.5105
Barium, Total	ug/L	MW-31	06/01/2016	72.2000 *	49.5105
Barium, Total	ug/L	MW-31	08/11/2016	72.7000 *	49.5105
Barium, Total	ug/L	MW-31	09/30/2016	76.8000 *	49.5105
Barium, Total	ug/L	MW-31	12/02/2016	76.5000 *	49.5105
Barium, Total	ug/L	MW-31	01/31/2017	71.3000 *	49.5105
Barium, Total	ug/L	MW-31	05/25/2017	66.8000 *	49.5105
Barium, Total	ug/L	MW-31	08/11/2017	71.3000 *	49.5105
Barium, Total	ug/L	MW-31	05/22/2018	63.8000 *	49.5105
Barium, Total	ug/L	MW-31	09/11/2018	53.9000 *	49.5105
Barium, Total	ug/L	MW-31	05/09/2019	58.2000 *	49.5105
Barium, Total	ug/L	MW-31	11/13/2019	51.8000 *	49.5105
Barium, Total	ug/L	MW-31	05/05/2020	56.7000 *	49.5105
Barium, Total	ug/L	MW-31	11/11/2020	60.0000 *	49.5105
Barium, Total	ug/L	MW-31	05/11/2021	91.1000 *	49.5105
Barium, Total	ug/L	MW-31	11/18/2021	93.9000 *	49.5105

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-3I	05/11/2022	93.3000 *	49.5105
Barium, Total	ug/L	MW-3I	11/15/2022	84.5000 *	49.5105
Barium, Total	ug/L	MW-3I	04/17/2023	62.4000 *	49.5105
Barium, Total	ug/L	MW-3I	10/09/2023	55.1000 *	49.5105
Barium, Total	ug/L	MW-6I	04/20/2016	64.0000 *	49.5105
Barium, Total	ug/L	MW-6I	06/01/2016	59.4000 *	49.5105
Barium, Total	ug/L	MW-6I	08/11/2016	55.5000 *	49.5105
Barium, Total	ug/L	MW-6I	09/29/2016	56.6000 *	49.5105
Barium, Total	ug/L	MW-6I	12/01/2016	62.9000 *	49.5105
Barium, Total	ug/L	MW-6I	01/30/2017	64.2000 *	49.5105
Barium, Total	ug/L	MW-6I	05/25/2017	60.5000 *	49.5105
Barium, Total	ug/L	MW-6I	08/10/2017	58.7000 *	49.5105
Barium, Total	ug/L	MW-6I	05/22/2018	42.4000	49.5105
Barium, Total	ug/L	MW-6I	09/12/2018	42.3000	49.5105
Barium, Total	ug/L	MW-6I	05/08/2019	60.8000 *	49.5105
Barium, Total	ug/L	MW-6I	11/14/2019	57.1000 *	49.5105
Barium, Total	ug/L	MW-6I	05/08/2020	52.7000 *	49.5105
Barium, Total	ug/L	MW-6I	11/10/2020	49.3000	49.5105
Barium, Total	ug/L	MW-6I	05/18/2021	52.9000 *	49.5105
Barium, Total	ug/L	MW-6I	11/09/2021	65.0000 *	49.5105
Barium, Total	ug/L	MW-6I	05/11/2022	62.6000 *	49.5105
Barium, Total	ug/L	MW-6I	11/15/2022	67.1000 *	49.5105
Barium, Total	ug/L	MW-6I	05/01/2023	73.8000 *	49.5105
Barium, Total	ug/L	MW-6I	10/10/2023	76.4000 *	49.5105
Fluoride	mg/L	MW-11I	04/20/2016	0.3900 *	0.1000
Fluoride	mg/L	MW-11I	06/02/2016	0.3900 *	0.1000
Fluoride	mg/L	MW-11I	08/12/2016	0.3600 *	0.1000
Fluoride	mg/L	MW-11I	09/30/2016	0.3900 *	0.1000
Fluoride	mg/L	MW-11I	12/01/2016	0.4000 *	0.1000
Fluoride	mg/L	MW-11I	01/31/2017	0.3900 *	0.1000
Fluoride	mg/L	MW-11I	05/25/2017	0.3800 *	0.1000
Fluoride	mg/L	MW-11I	08/10/2017	0.4100 *	0.1000
Fluoride	mg/L	MW-11I	09/28/2017	0.4100 *	0.1000
Fluoride	mg/L	MW-11I	05/22/2018	0.3700 *	0.1000
Fluoride	mg/L	MW-11I	09/12/2018	0.2900 *	0.1000
Fluoride	mg/L	MW-11I	05/08/2019	0.3400 *	0.1000
Fluoride	mg/L	MW-11I	11/14/2019	0.3400 *	0.1000
Fluoride	mg/L	MW-11I	05/07/2020	0.4000 *	0.1000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-11I	11/12/2020	0.4100 *	0.1000
Fluoride	mg/L	MW-11I	05/17/2021	0.4000 *	0.1000
Fluoride	mg/L	MW-11I	11/17/2021	0.3500 *	0.1000
Fluoride	mg/L	MW-11I	05/12/2022	0.4400 *	0.1000
Fluoride	mg/L	MW-11I	11/21/2022	0.4200 *	0.1000
Fluoride	mg/L	MW-11I	05/02/2023	0.4200 *	0.1000
Fluoride	mg/L	MW-11I	10/09/2023	0.3800 *	0.1000
Fluoride	mg/L	MW-1I	04/19/2016	0.4200 *	0.1000
Fluoride	mg/L	MW-1I	06/02/2016	0.4200 *	0.1000
Fluoride	mg/L	MW-1I	08/10/2016	0.4000 *	0.1000
Fluoride	mg/L	MW-1I	09/30/2016	0.4200 *	0.1000
Fluoride	mg/L	MW-1I	12/02/2016	0.4300 *	0.1000
Fluoride	mg/L	MW-1I	01/31/2017	0.3900 *	0.1000
Fluoride	mg/L	MW-1I	05/26/2017	0.3700 *	0.1000
Fluoride	mg/L	MW-1I	08/11/2017	0.4000 *	0.1000
Fluoride	mg/L	MW-1I	09/28/2017	0.4000 *	0.1000
Fluoride	mg/L	MW-1I	05/23/2018	0.3400 *	0.1000
Fluoride	mg/L	MW-1I	09/11/2018	0.2900 *	0.1000
Fluoride	mg/L	MW-1I	05/08/2019	0.3300 *	0.1000
Fluoride	mg/L	MW-1I	11/14/2019	0.3500 *	0.1000
Fluoride	mg/L	MW-1I	05/05/2020	0.3500 *	0.1000
Fluoride	mg/L	MW-1I	11/11/2020	0.3100 *	0.1000
Fluoride	mg/L	MW-1I	05/25/2021	0.2600 *	0.1000
Fluoride	mg/L	MW-1I	11/09/2021	0.2800 *	0.1000
Fluoride	mg/L	MW-1I	05/10/2022	0.2900 *	0.1000
Fluoride	mg/L	MW-1I	11/22/2022	0.3200 *	0.1000
Fluoride	mg/L	MW-1I	04/19/2023	0.2800 *	0.1000
Fluoride	mg/L	MW-1I	10/11/2023	0.2600 *	0.1000
Fluoride	mg/L	MW-2I	04/19/2016	0.4600 *	0.1000
Fluoride	mg/L	MW-2I	06/01/2016	0.4500 *	0.1000
Fluoride	mg/L	MW-2I	08/11/2016	0.4000 *	0.1000
Fluoride	mg/L	MW-2I	09/30/2016	0.4200 *	0.1000
Fluoride	mg/L	MW-2I	12/02/2016	0.4400 *	0.1000
Fluoride	mg/L	MW-2I	01/31/2017	0.3900 *	0.1000
Fluoride	mg/L	MW-2I	05/26/2017	0.3600 *	0.1000
Fluoride	mg/L	MW-2I	08/11/2017	0.3600 *	0.1000
Fluoride	mg/L	MW-2I	09/27/2017	0.3300 *	0.1000
Fluoride	mg/L	MW-2I	05/22/2018	0.3200 *	0.1000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-2I	09/11/2018	0.2700 *	0.1000
Fluoride	mg/L	MW-2I	05/09/2019	0.2900 *	0.1000
Fluoride	mg/L	MW-2I	11/13/2019	0.2900 *	0.1000
Fluoride	mg/L	MW-2I	05/05/2020	0.3100 *	0.1000
Fluoride	mg/L	MW-2I	11/11/2020	0.2900 *	0.1000
Fluoride	mg/L	MW-2I	05/11/2021	0.1800 *	0.1000
Fluoride	mg/L	MW-2I	11/10/2021	0.2900 *	0.1000
Fluoride	mg/L	MW-2I	05/11/2022	0.2700 *	0.1000
Fluoride	mg/L	MW-2I	11/15/2022	0.2400 *	0.1000
Fluoride	mg/L	MW-2I	04/19/2023	0.2800 *	0.1000
Fluoride	mg/L	MW-2I	10/10/2023	0.2700 *	0.1000
Fluoride	mg/L	MW-3I	04/20/2016	0.3300 *	0.1000
Fluoride	mg/L	MW-3I	06/01/2016	0.2900 *	0.1000
Fluoride	mg/L	MW-3I	08/11/2016	0.2800 *	0.1000
Fluoride	mg/L	MW-3I	09/30/2016	0.2700 *	0.1000
Fluoride	mg/L	MW-3I	12/02/2016	0.3300 *	0.1000
Fluoride	mg/L	MW-3I	01/31/2017	0.2800 *	0.1000
Fluoride	mg/L	MW-3I	05/25/2017	0.3100 *	0.1000
Fluoride	mg/L	MW-3I	08/11/2017	0.2800 *	0.1000
Fluoride	mg/L	MW-3I	09/27/2017	0.3000 *	0.1000
Fluoride	mg/L	MW-3I	05/22/2018	0.2800 *	0.1000
Fluoride	mg/L	MW-3I	09/11/2018	0.2500 *	0.1000
Fluoride	mg/L	MW-3I	05/09/2019	0.2900 *	0.1000
Fluoride	mg/L	MW-3I	11/13/2019	0.3000 *	0.1000
Fluoride	mg/L	MW-3I	05/05/2020	0.3200 *	0.1000
Fluoride	mg/L	MW-3I	11/11/2020	0.2900 *	0.1000
Fluoride	mg/L	MW-3I	05/11/2021	0.1600 *	0.1000
Fluoride	mg/L	MW-3I	11/18/2021	0.2200 *	0.1000
Fluoride	mg/L	MW-3I	05/11/2022	0.3200 *	0.1000
Fluoride	mg/L	MW-3I	11/15/2022	0.2800 *	0.1000
Fluoride	mg/L	MW-3I	04/17/2023	0.3400 *	0.1000
Fluoride	mg/L	MW-3I	10/09/2023	0.4000 *	0.1000
Fluoride	mg/L	MW-6I	04/20/2016	0.3400 *	0.1000
Fluoride	mg/L	MW-6I	06/01/2016	0.3200 *	0.1000
Fluoride	mg/L	MW-6I	08/11/2016	0.3200 *	0.1000
Fluoride	mg/L	MW-6I	09/29/2016	0.3300 *	0.1000
Fluoride	mg/L	MW-6I	12/01/2016	0.3300 *	0.1000
Fluoride	mg/L	MW-6I	01/30/2017	0.2900 *	0.1000

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-6I	05/25/2017	0.2900 *	0.1000
Fluoride	mg/L	MW-6I	08/10/2017	0.3100 *	0.1000
Fluoride	mg/L	MW-6I	09/27/2017	0.3400 *	0.1000
Fluoride	mg/L	MW-6I	05/22/2018	0.2200 *	0.1000
Fluoride	mg/L	MW-6I	09/12/2018	0.2600 *	0.1000
Fluoride	mg/L	MW-6I	05/08/2019	0.2500 *	0.1000
Fluoride	mg/L	MW-6I	11/14/2019	0.2600 *	0.1000
Fluoride	mg/L	MW-6I	05/08/2020	0.2400 *	0.1000
Fluoride	mg/L	MW-6I	11/10/2020	0.2900 *	0.1000
Fluoride	mg/L	MW-6I	05/18/2021	0.3000 *	0.1000
Fluoride	mg/L	MW-6I	11/09/2021	0.2700 *	0.1000
Fluoride	mg/L	MW-6I	05/11/2022	0.3500 *	0.1000
Fluoride	mg/L	MW-6I	11/15/2022	0.2900 *	0.1000
Fluoride	mg/L	MW-6I	05/01/2023	0.3200 *	0.1000
Fluoride	mg/L	MW-6I	10/10/2023	0.2900 *	0.1000
Lithium, Total	ug/L	MW-11I	04/20/2016	120.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	06/02/2016	124.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	08/12/2016	115.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	09/30/2016	116.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	12/01/2016	123.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	01/31/2017	111.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/25/2017	123.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	08/10/2017	114.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/22/2018	109.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	09/12/2018	107.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/08/2019	104.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	11/14/2019	102.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/07/2020	102.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	11/12/2020	93.2000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/17/2021	107.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	11/17/2021	118.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/12/2022	102.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	11/21/2022	122.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/02/2023	97.4000 *	20.0000
Lithium, Total	ug/L	MW-11I	10/09/2023	107.0000 *	20.0000
Lithium, Total	ug/L	MW-1I	04/19/2016	100.0000 *	20.0000
Lithium, Total	ug/L	MW-1I	06/02/2016	96.2000 *	20.0000
Lithium, Total	ug/L	MW-1I	08/10/2016	92.3000 *	20.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-11	09/30/2016	92.5000 *	20.0000
Lithium, Total	ug/L	MW-11	12/02/2016	86.8000 *	20.0000
Lithium, Total	ug/L	MW-11	01/31/2017	90.7000 *	20.0000
Lithium, Total	ug/L	MW-11	05/26/2017	97.5000 *	20.0000
Lithium, Total	ug/L	MW-11	08/11/2017	99.3000 *	20.0000
Lithium, Total	ug/L	MW-11	05/23/2018	120.0000 *	20.0000
Lithium, Total	ug/L	MW-11	09/11/2018	98.2000 *	20.0000
Lithium, Total	ug/L	MW-11	05/08/2019	116.0000 *	20.0000
Lithium, Total	ug/L	MW-11	11/14/2019	100.0000 *	20.0000
Lithium, Total	ug/L	MW-11	05/05/2020	106.0000 *	20.0000
Lithium, Total	ug/L	MW-11	11/11/2020	92.4000 *	20.0000
Lithium, Total	ug/L	MW-11	05/25/2021	87.7000 *	20.0000
Lithium, Total	ug/L	MW-11	11/09/2021	92.5000 *	20.0000
Lithium, Total	ug/L	MW-11	05/10/2022	86.9000 *	20.0000
Lithium, Total	ug/L	MW-11	11/22/2022	94.7000 *	20.0000
Lithium, Total	ug/L	MW-11	04/19/2023	87.2000 *	20.0000
Lithium, Total	ug/L	MW-11	10/11/2023	86.9000 *	20.0000
Lithium, Total	ug/L	MW-21	04/19/2016	126.0000 *	20.0000
Lithium, Total	ug/L	MW-21	06/01/2016	116.0000 *	20.0000
Lithium, Total	ug/L	MW-21	08/11/2016	114.0000 *	20.0000
Lithium, Total	ug/L	MW-21	09/30/2016	116.0000 *	20.0000
Lithium, Total	ug/L	MW-21	12/02/2016	124.0000 *	20.0000
Lithium, Total	ug/L	MW-21	01/31/2017	124.0000 *	20.0000
Lithium, Total	ug/L	MW-21	05/26/2017	127.0000 *	20.0000
Lithium, Total	ug/L	MW-21	08/11/2017	109.0000 *	20.0000
Lithium, Total	ug/L	MW-21	05/22/2018	88.8000 *	20.0000
Lithium, Total	ug/L	MW-21	09/11/2018	68.4000 *	20.0000
Lithium, Total	ug/L	MW-21	05/09/2019	86.5000 *	20.0000
Lithium, Total	ug/L	MW-21	11/13/2019	78.4000 *	20.0000
Lithium, Total	ug/L	MW-21	05/05/2020	77.7000 *	20.0000
Lithium, Total	ug/L	MW-21	11/11/2020	61.3000 *	20.0000
Lithium, Total	ug/L	MW-21	05/11/2021	58.1000 *	20.0000
Lithium, Total	ug/L	MW-21	11/10/2021	54.8000 *	20.0000
Lithium, Total	ug/L	MW-21	05/11/2022	47.4000 *	20.0000
Lithium, Total	ug/L	MW-21	11/15/2022	52.3000 *	20.0000
Lithium, Total	ug/L	MW-21	04/19/2023	47.9000 *	20.0000
Lithium, Total	ug/L	MW-21	10/10/2023	32.9000 *	20.0000
Lithium, Total	ug/L	MW-61	04/20/2016	148.0000 *	20.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-6I	06/01/2016	146.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	08/11/2016	133.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	09/29/2016	136.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	12/01/2016	138.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	01/30/2017	140.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/25/2017	139.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	08/10/2017	129.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/22/2018	101.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	09/12/2018	90.1000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/08/2019	112.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	11/14/2019	97.8000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/08/2020	114.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	11/10/2020	122.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/18/2021	102.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	11/09/2021	115.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/11/2022	113.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	11/15/2022	104.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/01/2023	99.5000 *	20.0000
Lithium, Total	ug/L	MW-6I	10/10/2023	100.0000 *	20.0000
Molybdenum, Total	ug/L	MW-11I	04/20/2016	179.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	06/02/2016	180.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	08/12/2016	173.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	09/30/2016	172.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	12/01/2016	177.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	01/31/2017	164.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	05/25/2017	174.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	08/10/2017	181.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	05/22/2018	170.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	09/12/2018	165.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	05/08/2019	169.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	11/14/2019	156.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	05/07/2020	170.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	11/12/2020	164.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	05/17/2021	152.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	11/17/2021	149.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	05/12/2022	148.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	11/21/2022	127.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	05/02/2023	128.0000 *	10.0000

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Table C-7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-11I	10/09/2023	122.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	04/19/2016	126.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	06/02/2016	126.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	08/10/2016	124.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	09/30/2016	123.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	12/02/2016	120.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	01/31/2017	125.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/26/2017	123.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	08/11/2017	124.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/23/2018	107.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	09/11/2018	100.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/08/2019	114.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	11/14/2019	109.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/05/2020	109.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	11/11/2020	99.9000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/25/2021	97.5000 *	10.0000
Molybdenum, Total	ug/L	MW-11	11/09/2021	107.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/10/2022	96.3000 *	10.0000
Molybdenum, Total	ug/L	MW-11	11/22/2022	87.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	04/19/2023	87.9000 *	10.0000
Molybdenum, Total	ug/L	MW-11	10/11/2023	81.5000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	04/19/2016	102.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	06/01/2016	115.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	08/11/2016	111.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	09/30/2016	109.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	12/02/2016	111.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	01/31/2017	104.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/26/2017	92.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	08/11/2017	84.3000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/22/2018	75.4000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	09/11/2018	56.1000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/09/2019	67.1000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	11/13/2019	62.2000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/05/2020	64.6000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	11/11/2020	63.8000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/11/2021	64.1000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	11/10/2021	57.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/11/2022	65.4000 *	10.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
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Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-2I	11/15/2022	59.7000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	04/19/2023	73.7000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	10/10/2023	76.7000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	04/20/2016	71.1000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	06/01/2016	66.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	08/11/2016	64.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	09/30/2016	57.5000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	12/02/2016	58.8000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	01/31/2017	60.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/25/2017	57.8000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	08/11/2017	58.4000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/22/2018	79.7000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	09/11/2018	75.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/09/2019	91.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	11/13/2019	78.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/05/2020	80.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	11/11/2020	69.2000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/11/2021	59.5000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	11/18/2021	61.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/11/2022	60.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	11/15/2022	56.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	04/17/2023	68.1000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	10/09/2023	56.2000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	04/20/2016	201.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	06/01/2016	198.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	08/11/2016	215.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	09/29/2016	214.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	12/01/2016	204.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	01/30/2017	194.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/25/2017	189.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	08/10/2017	207.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/22/2018	257.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	09/12/2018	191.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/08/2019	169.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	11/14/2019	186.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/08/2020	207.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	11/10/2020	229.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/18/2021	231.0000 *	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	ug/L	MW-6I	11/09/2021		219.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6I	05/11/2022		209.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6I	11/15/2022		191.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6I	05/01/2023		173.0000	*	10.0000
Molybdenum, Total	ug/L	MW-6I	10/10/2023		160.0000	*	10.0000
Total Radium	pCi/L	MW-11I	04/20/2016		1.6400		1.9708
Total Radium	pCi/L	MW-11I	06/02/2016		1.9800	*	1.9708
Total Radium	pCi/L	MW-11I	08/12/2016		1.4600		1.9708
Total Radium	pCi/L	MW-11I	09/30/2016		3.1800	*	1.9708
Total Radium	pCi/L	MW-11I	12/01/2016		1.2100		1.9708
Total Radium	pCi/L	MW-11I	01/31/2017		1.0500		1.9708
Total Radium	pCi/L	MW-11I	05/25/2017		1.9000		1.9708
Total Radium	pCi/L	MW-11I	08/10/2017		1.7600		1.9708
Total Radium	pCi/L	MW-11I	05/22/2018		1.8200		1.9708
Total Radium	pCi/L	MW-11I	09/12/2018		1.8100		1.9708
Total Radium	pCi/L	MW-11I	05/08/2019		1.9900	*	1.9708
Total Radium	pCi/L	MW-11I	11/14/2019		1.0800		1.9708
Total Radium	pCi/L	MW-11I	05/07/2020		1.3200		1.9708
Total Radium	pCi/L	MW-11I	11/12/2020		1.1300		1.9708
Total Radium	pCi/L	MW-11I	05/17/2021		1.7000		1.9708
Total Radium	pCi/L	MW-11I	11/17/2021		2.0600	*	1.9708
Total Radium	pCi/L	MW-11I	05/12/2022		1.4400		1.9708
Total Radium	pCi/L	MW-11I	11/21/2022	ND	1.9300		1.9708
Total Radium	pCi/L	MW-11I	05/02/2023		0.8580		1.9708
Total Radium	pCi/L	MW-11I	10/09/2023		2.4400	*	1.9708

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program

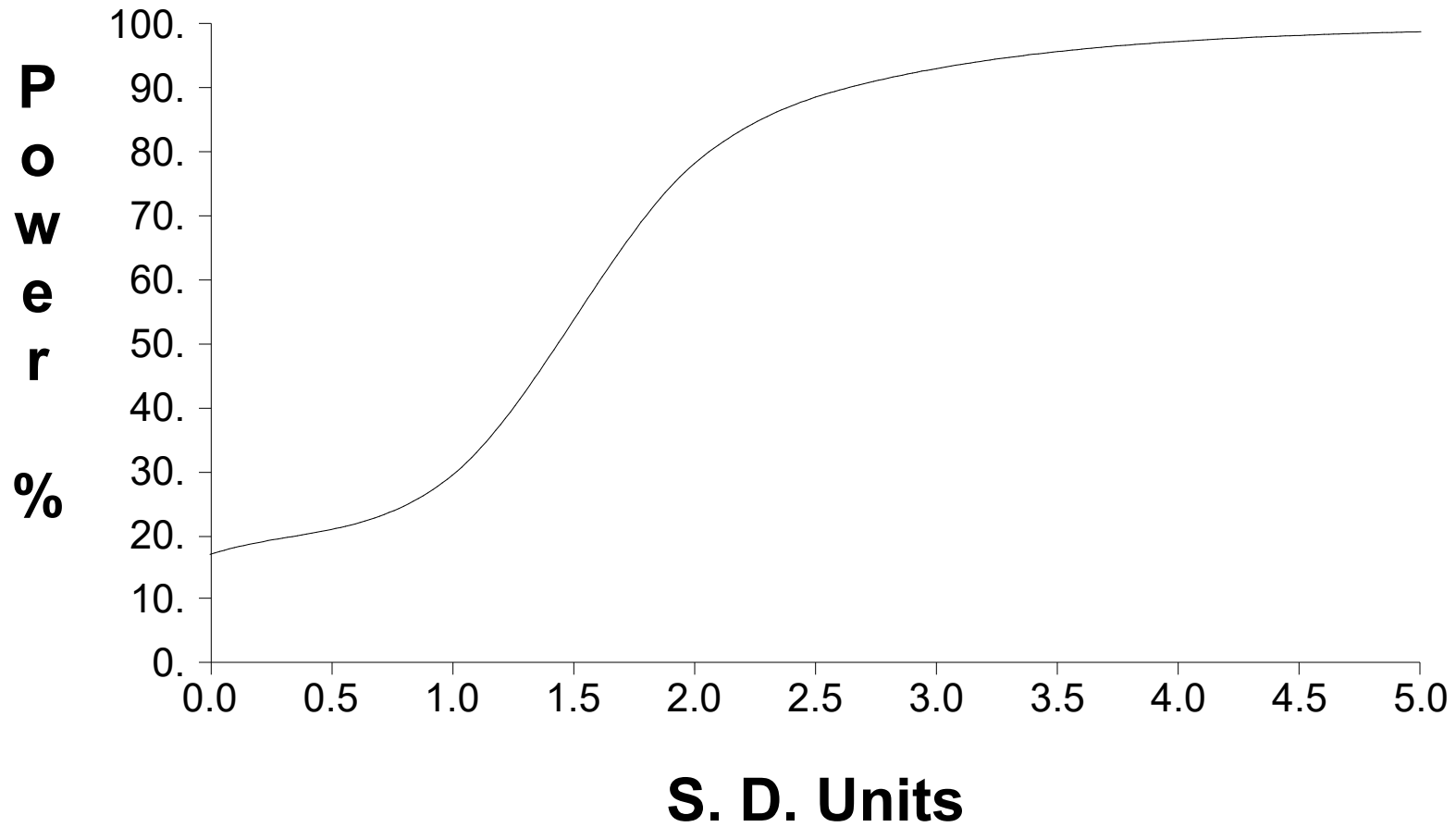


Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, Total	ug/L	MW-13D	08/08/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13D	09/25/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13D	05/07/2020	ND	6.0000	1.0000	**
Antimony, Total	ug/L	MW-13D	11/12/2020	ND	1.0000		
Antimony, Total	ug/L	MW-13D	02/25/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	03/29/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	05/20/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	06/22/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	07/27/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	11/16/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	05/19/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13D	11/18/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13D	04/17/2023	ND	1.0000		
Antimony, Total	ug/L	MW-13D	10/11/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	08/08/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	09/25/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	05/07/2020	ND	10.0000	1.0000	**
Arsenic, Total	ug/L	MW-13D	11/12/2020		1.3000		
Arsenic, Total	ug/L	MW-13D	02/25/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	03/29/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	05/20/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	06/22/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	07/27/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	11/16/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	05/19/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	11/18/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	04/17/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	10/11/2023	ND	1.0000		
Barium, Total	ug/L	MW-13D	08/08/2019		53.2000		
Barium, Total	ug/L	MW-13D	09/25/2019		47.4000		
Barium, Total	ug/L	MW-13D	05/07/2020		53.1000		
Barium, Total	ug/L	MW-13D	11/12/2020		57.9000		
Barium, Total	ug/L	MW-13D	02/25/2021		57.0000		
Barium, Total	ug/L	MW-13D	03/29/2021		60.9000		
Barium, Total	ug/L	MW-13D	05/20/2021		60.3000		
Barium, Total	ug/L	MW-13D	06/22/2021		59.3000		
Barium, Total	ug/L	MW-13D	07/27/2021		64.5000		
Barium, Total	ug/L	MW-13D	11/16/2021		64.6000		
Barium, Total	ug/L	MW-13D	05/19/2022		62.4000		
Barium, Total	ug/L	MW-13D	11/18/2022		64.5000		
Barium, Total	ug/L	MW-13D	04/17/2023		59.4000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted			
Barium, Total	ug/L	MW-13D	10/11/2023		57.4000				
Beryllium, Total	ug/L	MW-13D	08/08/2019	ND	0.2000	0.2000	**		
Beryllium, Total	ug/L	MW-13D	09/25/2019	ND	0.2000				
Beryllium, Total	ug/L	MW-13D	05/07/2020	ND	4.0000				
Beryllium, Total	ug/L	MW-13D	11/12/2020	ND	0.2000				
Beryllium, Total	ug/L	MW-13D	02/25/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13D	03/29/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13D	05/20/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13D	06/22/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13D	07/27/2021	ND	0.2000				
Beryllium, Total	ug/L	MW-13D	05/19/2022	ND	0.2000				
Beryllium, Total	ug/L	MW-13D	04/17/2023	ND	0.2000				
Cadmium, Total	ug/L	MW-13D	08/08/2019	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	09/25/2019	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	05/07/2020	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	11/12/2020	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	02/25/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	03/29/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	05/20/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	06/22/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	07/27/2021	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	05/19/2022	ND	2.0000				
Cadmium, Total	ug/L	MW-13D	04/17/2023	ND	2.0000				
Chromium, Total	ug/L	MW-13D	08/08/2019	ND	10.0000				
Chromium, Total	ug/L	MW-13D	09/25/2019	ND	10.0000				
Chromium, Total	ug/L	MW-13D	05/07/2020	ND	10.0000				
Chromium, Total	ug/L	MW-13D	11/12/2020	ND	10.0000				
Chromium, Total	ug/L	MW-13D	02/25/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13D	03/29/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13D	05/20/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13D	06/22/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13D	07/27/2021	ND	10.0000				
Chromium, Total	ug/L	MW-13D	05/19/2022	ND	10.0000				
Chromium, Total	ug/L	MW-13D	04/17/2023	ND	10.0000				
Cobalt, Total	ug/L	MW-13D	08/08/2019	ND	1.0000			1.0000	**
Cobalt, Total	ug/L	MW-13D	09/25/2019	ND	1.0000				
Cobalt, Total	ug/L	MW-13D	05/07/2020	ND	10.0000				
Cobalt, Total	ug/L	MW-13D	11/12/2020	ND	1.2000				
Cobalt, Total	ug/L	MW-13D	02/25/2021	ND	1.0000				
Cobalt, Total	ug/L	MW-13D	03/29/2021	ND	1.0000				
Cobalt, Total	ug/L	MW-13D	05/20/2021	ND	1.0000				

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted
Cobalt, Total	ug/L	MW-13D	06/22/2021	ND	1.0000	
Cobalt, Total	ug/L	MW-13D	07/27/2021	ND	1.0000	
Cobalt, Total	ug/L	MW-13D	11/16/2021	ND	1.0000	
Cobalt, Total	ug/L	MW-13D	05/19/2022	ND	1.0000	
Cobalt, Total	ug/L	MW-13D	04/17/2023	ND	1.0000	
Cobalt, Total	ug/L	MW-13D	10/11/2023	ND	1.0000	
Fluoride	mg/L	MW-13D	08/08/2019	ND	0.1000	
Fluoride	mg/L	MW-13D	09/25/2019		0.1100	
Fluoride	mg/L	MW-13D	05/07/2020		0.1100	
Fluoride	mg/L	MW-13D	11/12/2020	ND	0.1000	
Fluoride	mg/L	MW-13D	02/25/2021	ND	0.1000	
Fluoride	mg/L	MW-13D	03/29/2021	ND	0.1000	
Fluoride	mg/L	MW-13D	05/20/2021	ND	0.1000	
Fluoride	mg/L	MW-13D	06/22/2021		0.1200	
Fluoride	mg/L	MW-13D	07/27/2021		0.1200	
Fluoride	mg/L	MW-13D	11/16/2021	ND	0.1000	
Fluoride	mg/L	MW-13D	05/19/2022		0.1000	
Fluoride	mg/L	MW-13D	11/18/2022		0.1100	
Fluoride	mg/L	MW-13D	04/17/2023	ND	0.1000	
Fluoride	mg/L	MW-13D	10/11/2023	ND	0.1000	
Lead, Total	ug/L	MW-13D	08/08/2019	ND	10.0000	
Lead, Total	ug/L	MW-13D	09/25/2019	ND	10.0000	
Lead, Total	ug/L	MW-13D	05/07/2020	ND	10.0000	
Lead, Total	ug/L	MW-13D	11/12/2020	ND	10.0000	
Lead, Total	ug/L	MW-13D	02/25/2021	ND	10.0000	
Lead, Total	ug/L	MW-13D	03/29/2021	ND	10.0000	
Lead, Total	ug/L	MW-13D	05/20/2021	ND	10.0000	
Lead, Total	ug/L	MW-13D	06/22/2021	ND	10.0000	
Lead, Total	ug/L	MW-13D	07/27/2021	ND	10.0000	
Lead, Total	ug/L	MW-13D	05/19/2022	ND	10.0000	
Lead, Total	ug/L	MW-13D	04/17/2023	ND	10.0000	
Lithium, Total	ug/L	MW-13D	08/08/2019	ND	20.0000	
Lithium, Total	ug/L	MW-13D	09/25/2019	ND	20.0000	
Lithium, Total	ug/L	MW-13D	05/07/2020	ND	20.0000	
Lithium, Total	ug/L	MW-13D	11/12/2020	ND	20.0000	
Lithium, Total	ug/L	MW-13D	02/25/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13D	03/29/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13D	05/20/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13D	06/22/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13D	07/27/2021	ND	20.0000	
Lithium, Total	ug/L	MW-13D	11/16/2021	ND	20.0000	

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lithium, Total	ug/L	MW-13D	05/19/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13D	11/18/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13D	04/17/2023	ND	20.0000		
Lithium, Total	ug/L	MW-13D	10/11/2023	ND	20.0000		
Mercury	ug/L	MW-13D	08/08/2019	ND	2.0000		
Mercury	ug/L	MW-13D	09/25/2019	ND	2.0000		
Mercury	ug/L	MW-13D	11/12/2020	ND	2.0000		
Mercury	ug/L	MW-13D	02/25/2021	ND	2.0000		
Mercury	ug/L	MW-13D	03/29/2021	ND	2.0000		
Mercury	ug/L	MW-13D	05/20/2021	ND	2.0000		
Mercury	ug/L	MW-13D	06/22/2021	ND	2.0000		
Mercury	ug/L	MW-13D	07/27/2021	ND	2.0000		
Mercury	ug/L	MW-13D	05/19/2022	ND	0.2000	2.0000	**
Mercury	ug/L	MW-13D	04/17/2023	ND	0.2000	2.0000	**
Molybdenum, Total	ug/L	MW-13D	08/08/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	09/25/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	05/07/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	11/12/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	02/25/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	03/29/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	05/20/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	06/22/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	07/27/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	11/16/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	05/19/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	11/18/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	04/17/2023	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	10/11/2023	ND	10.0000		
Selenium, Total	ug/L	MW-13D	08/08/2019	ND	1.0000		
Selenium, Total	ug/L	MW-13D	09/25/2019	ND	1.0000		
Selenium, Total	ug/L	MW-13D	05/07/2020	ND	10.0000		*
Selenium, Total	ug/L	MW-13D	11/12/2020		1.2000		
Selenium, Total	ug/L	MW-13D	02/25/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13D	03/29/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13D	05/20/2021		1.2000		
Selenium, Total	ug/L	MW-13D	06/22/2021		1.2000		
Selenium, Total	ug/L	MW-13D	07/27/2021		1.3000		
Selenium, Total	ug/L	MW-13D	11/16/2021		1.3000		
Selenium, Total	ug/L	MW-13D	05/19/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13D	11/18/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13D	04/17/2023		1.2000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, Total	ug/L	MW-13D	10/11/2023	ND	1.0000		
Thallium, Total	ug/L	MW-13D	08/08/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13D	09/25/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13D	05/07/2020	ND	10.0000	1.0000	**
Thallium, Total	ug/L	MW-13D	11/12/2020	ND	1.0000		
Thallium, Total	ug/L	MW-13D	02/25/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	03/29/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	05/20/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	06/22/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	07/27/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	05/19/2022	ND	1.0000		
Thallium, Total	ug/L	MW-13D	04/17/2023	ND	1.0000		
Total Radium	pCi/L	MW-13D	08/08/2019	ND	1.5900		
Total Radium	pCi/L	MW-13D	09/25/2019		0.9060		
Total Radium	pCi/L	MW-13D	11/12/2020		1.1000		
Total Radium	pCi/L	MW-13D	02/25/2021		0.5860		
Total Radium	pCi/L	MW-13D	03/29/2021	ND	1.6600	1.5900	**
Total Radium	pCi/L	MW-13D	05/20/2021	ND	2.1400	1.5900	**
Total Radium	pCi/L	MW-13D	06/22/2021	ND	1.5900		
Total Radium	pCi/L	MW-13D	07/27/2021		0.7950		
Total Radium	pCi/L	MW-13D	11/16/2021		0.5500		
Total Radium	pCi/L	MW-13D	05/19/2022		0.9330		
Total Radium	pCi/L	MW-13D	11/18/2022		0.6980		
Total Radium	pCi/L	MW-13D	04/17/2023		1.9500		
Total Radium	pCi/L	MW-13D	10/11/2023		1.4100		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-11D	10/09/2023	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-1D	10/11/2023	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-2D	10/10/2023	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6D	10/10/2023	ND	1.0000		1.0000
Arsenic, Total	ug/L	MW-11D	10/09/2023		4.9000	***	1.3000
Arsenic, Total	ug/L	MW-1D	10/11/2023		2.7000	***	1.3000
Arsenic, Total	ug/L	MW-2D	10/10/2023		4.7000	***	1.3000
Arsenic, Total	ug/L	MW-6D	10/10/2023	ND	1.0000		1.3000
Barium, Total	ug/L	MW-11D	10/09/2023		62.1000		72.2703
Barium, Total	ug/L	MW-1D	10/11/2023		59.2000		72.2703
Barium, Total	ug/L	MW-2D	10/10/2023		61.8000	**	72.2703
Barium, Total	ug/L	MW-6D	10/10/2023		62.0000		72.2703
Beryllium, Total	ug/L	MW-11D	05/03/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-1D	04/19/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-2D	04/18/2023	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-6D	05/01/2023	ND	0.2000		0.2000
Cadmium, Total	ug/L	MW-11D	05/03/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-1D	04/19/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-2D	04/18/2023	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-6D	05/01/2023	ND	2.0000		2.0000
Chromium, Total	ug/L	MW-11D	05/03/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-1D	04/19/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-2D	04/18/2023	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-6D	05/01/2023	ND	10.0000		10.0000
Cobalt, Total	ug/L	MW-11D	10/09/2023	ND	1.0000	**	1.2000
Cobalt, Total	ug/L	MW-1D	10/11/2023	ND	1.0000		1.2000
Cobalt, Total	ug/L	MW-2D	10/10/2023	ND	1.0000		1.2000
Cobalt, Total	ug/L	MW-6D	10/10/2023	ND	1.0000		1.2000
Fluoride	mg/L	MW-11D	10/09/2023		0.2800	***	0.1200
Fluoride	mg/L	MW-1D	10/11/2023		0.3200	***	0.1200
Fluoride	mg/L	MW-2D	10/10/2023		0.3100	***	0.1200
Fluoride	mg/L	MW-6D	10/10/2023		0.1700	***	0.1200
Lead, Total	ug/L	MW-11D	05/03/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-1D	04/19/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-2D	04/18/2023	ND	10.0000		10.0000
Lead, Total	ug/L	MW-6D	05/01/2023	ND	10.0000		10.0000
Lithium, Total	ug/L	MW-11D	10/09/2023		83.2000	***	20.0000
Lithium, Total	ug/L	MW-1D	10/11/2023		83.3000	***	20.0000
Lithium, Total	ug/L	MW-2D	10/10/2023		34.7000	***	20.0000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	ug/L	MW-6D	10/10/2023		71.1000	***	20.0000
Mercury	ug/L	MW-11D	05/03/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-1D	04/19/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-2D	04/18/2023	ND	0.2000		2.0000
Mercury	ug/L	MW-6D	05/01/2023	ND	0.2000		2.0000
Molybdenum, Total	ug/L	MW-11D	10/09/2023		133.0000	***	10.0000
Molybdenum, Total	ug/L	MW-1D	10/11/2023		92.1000	***	10.0000
Molybdenum, Total	ug/L	MW-2D	10/10/2023		47.8000	***	10.0000
Molybdenum, Total	ug/L	MW-6D	10/10/2023		203.0000	***	10.0000
Selenium, Total	ug/L	MW-11D	10/09/2023	ND	1.0000		1.3000
Selenium, Total	ug/L	MW-1D	10/11/2023	ND	1.0000		1.3000
Selenium, Total	ug/L	MW-2D	10/10/2023	ND	1.0000		1.3000
Selenium, Total	ug/L	MW-6D	10/10/2023	ND	1.0000		1.3000
Thallium, Total	ug/L	MW-11D	05/03/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-1D	04/19/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-2D	04/18/2023	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-6D	05/01/2023	ND	1.0000		1.0000
Total Radium	pCi/L	MW-11D	10/09/2023		0.8600		2.3664
Total Radium	pCi/L	MW-1D	10/11/2023		1.5300		2.3664
Total Radium	pCi/L	MW-2D	10/10/2023		1.7000		2.3664
Total Radium	pCi/L	MW-6D	10/10/2023		0.8800		2.3664

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	14	0.000	1	80	0.013
Arsenic, Total	1	14	0.071	36	80	0.450
Barium, Total	14	14	1.000	80	80	1.000
Beryllium, Total	0	11	0.000	0	56	0.000
Cadmium, Total	0	11	0.000	0	56	0.000
Chromium, Total	0	11	0.000	1	56	0.018
Cobalt, Total	1	13	0.077	2	76	0.026
Fluoride	6	14	0.429	84	84	1.000
Lead, Total	0	11	0.000	2	56	0.036
Lithium, Total	0	14	0.000	80	80	1.000
Mercury	0	10	0.000	0	56	0.000
Molybdenum, Total	0	14	0.000	80	80	1.000
Selenium, Total	6	13	0.462	0	80	0.000
Thallium, Total	0	11	0.000	0	56	0.000
Total Radium	9	13	0.692	75	80	0.938

N = Total number of measurements in all wells.
 Detect = Total number of detections in all wells.
 Proportion = Detect/N.

Table C-4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Arsenic, Total	1	14	0.071	20.331	20.331					2.326	non-norm	nonpar
Barium, Total	14	14	1.000	0.605	1.016					2.326	normal	normal
Beryllium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Cadmium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Chromium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Cobalt, Total	1	13	0.077	20.692	20.692					2.326	non-norm	nonpar
Fluoride	6	14	0.429	3.825	3.803					2.326	non-norm	nonpar
Lead, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Lithium, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Mercury	0	10	0.000	3.262	3.262					2.326	non-norm	nonpar
Molybdenum, Total	0	14	0.000	4.155	4.155					2.326	non-norm	nonpar
Selenium, Total	6	13	0.462	3.071	3.129					2.326	non-norm	nonpar
Thallium, Total	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Total Radium	9	13	0.692	0.870	0.845					2.326	normal	normal

* - Distribution override for that constituent.
 Fit to distribution is confirmed if G <= critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table C-5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, Total	ug/L	0	14					1.0000	nonpar	***	0.97
Arsenic, Total	ug/L	1	14					1.3000	nonpar		0.97
Barium, Total	ug/L	14	14	58.7071	4.9501	0.0100	2.7400	72.2703	normal		
Beryllium, Total	ug/L	0	11					0.2000	nonpar	***	0.95
Cadmium, Total	ug/L	0	11					2.0000	nonpar	***	0.95
Chromium, Total	ug/L	0	11					10.0000	nonpar	***	0.95
Cobalt, Total	ug/L	1	13					1.2000	nonpar		0.96
Fluoride	mg/L	6	14					0.1200	nonpar		0.97
Lead, Total	ug/L	0	11					10.0000	nonpar	***	0.95
Lithium, Total	ug/L	0	14					20.0000	nonpar	***	0.97
Mercury	ug/L	0	10					2.0000	nonpar	***	0.94
Molybdenum, Total	ug/L	0	14					10.0000	nonpar	***	0.97
Selenium, Total	ug/L	6	13					1.3000	nonpar		0.96
Thallium, Total	ug/L	0	11					1.0000	nonpar	***	0.95
Total Radium	pCi/L	9	13	0.6868	0.6046	0.0100	2.7779	2.3664	normal		

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table C-6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Selenium, Total	ug/L	MW-13D	05/07/2020	10.0000	< 10.0000	08/08/2019-10/11/2023	14	0.6403

N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Arsenic, Total	ug/L	MW-11D	04/20/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	06/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	08/12/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	09/30/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	12/01/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	01/31/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	05/25/2017		24.4000 *	1.3000
Arsenic, Total	ug/L	MW-11D	08/10/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	05/22/2018		6.1000 *	1.3000
Arsenic, Total	ug/L	MW-11D	09/12/2018		5.3000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/08/2019		5.1000 *	1.3000
Arsenic, Total	ug/L	MW-11D	11/14/2019		5.0000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/07/2020		5.6000 *	1.3000
Arsenic, Total	ug/L	MW-11D	11/12/2020		4.6000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/17/2021		5.1000 *	1.3000
Arsenic, Total	ug/L	MW-11D	11/17/2021		6.2000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/12/2022		5.2000 *	1.3000
Arsenic, Total	ug/L	MW-11D	11/29/2022		5.0000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/03/2023		5.4000 *	1.3000
Arsenic, Total	ug/L	MW-11D	10/09/2023		4.9000 *	1.3000
Arsenic, Total	ug/L	MW-1D	04/19/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	06/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	08/10/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	09/30/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	12/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	01/31/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	05/26/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	08/11/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	05/23/2018		1.6000 *	1.3000
Arsenic, Total	ug/L	MW-1D	09/11/2018		1.6000 *	1.3000
Arsenic, Total	ug/L	MW-1D	05/08/2019		1.5000 *	1.3000
Arsenic, Total	ug/L	MW-1D	11/14/2019		3.6000 *	1.3000
Arsenic, Total	ug/L	MW-1D	05/05/2020		1.9000 *	1.3000
Arsenic, Total	ug/L	MW-1D	11/11/2020		4.2000 *	1.3000
Arsenic, Total	ug/L	MW-1D	05/25/2021		2.3000 *	1.3000
Arsenic, Total	ug/L	MW-1D	11/09/2021		2.1000 *	1.3000
Arsenic, Total	ug/L	MW-1D	05/10/2022		3.7000 *	1.3000
Arsenic, Total	ug/L	MW-1D	11/22/2022		2.5000 *	1.3000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Arsenic, Total	ug/L	MW-1D	04/19/2023		1.7000 *	1.3000
Arsenic, Total	ug/L	MW-1D	10/11/2023		2.7000 *	1.3000
Arsenic, Total	ug/L	MW-2D	04/19/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	06/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	08/11/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	09/30/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	12/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	01/31/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	05/26/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	08/11/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	05/22/2018		3.2000 *	1.3000
Arsenic, Total	ug/L	MW-2D	09/11/2018		3.9000 *	1.3000
Arsenic, Total	ug/L	MW-2D	05/09/2019		3.2000 *	1.3000
Arsenic, Total	ug/L	MW-2D	11/13/2019		3.7000 *	1.3000
Arsenic, Total	ug/L	MW-2D	05/05/2020		3.5000 *	1.3000
Arsenic, Total	ug/L	MW-2D	11/11/2020		4.0000 *	1.3000
Arsenic, Total	ug/L	MW-2D	05/11/2021		4.5000 *	1.3000
Arsenic, Total	ug/L	MW-2D	11/10/2021	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-2D	05/11/2022		3.7000 *	1.3000
Arsenic, Total	ug/L	MW-2D	11/15/2022		4.1000 *	1.3000
Arsenic, Total	ug/L	MW-2D	04/18/2023		3.8000 *	1.3000
Arsenic, Total	ug/L	MW-2D	10/10/2023		4.7000 *	1.3000
Barium, Total	ug/L	MW-2D	04/19/2016		71.7000	72.2703
Barium, Total	ug/L	MW-2D	06/02/2016		62.2000	72.2703
Barium, Total	ug/L	MW-2D	08/11/2016		65.6000	72.2703
Barium, Total	ug/L	MW-2D	09/30/2016		60.7000	72.2703
Barium, Total	ug/L	MW-2D	12/02/2016		65.6000	72.2703
Barium, Total	ug/L	MW-2D	01/31/2017		65.2000	72.2703
Barium, Total	ug/L	MW-2D	05/26/2017		62.5000	72.2703
Barium, Total	ug/L	MW-2D	08/11/2017		64.0000	72.2703
Barium, Total	ug/L	MW-2D	05/22/2018		53.2000	72.2703
Barium, Total	ug/L	MW-2D	09/11/2018		40.7000	72.2703
Barium, Total	ug/L	MW-2D	05/09/2019		48.6000	72.2703
Barium, Total	ug/L	MW-2D	11/13/2019		52.1000	72.2703
Barium, Total	ug/L	MW-2D	05/05/2020		56.9000	72.2703
Barium, Total	ug/L	MW-2D	11/11/2020		62.5000	72.2703
Barium, Total	ug/L	MW-2D	05/11/2021		74.2000 *	72.2703
Barium, Total	ug/L	MW-2D	11/10/2021		65.4000	72.2703

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Barium, Total	ug/L	MW-2D	05/11/2022		69.7000	72.2703
Barium, Total	ug/L	MW-2D	11/15/2022		74.0000 *	72.2703
Barium, Total	ug/L	MW-2D	04/18/2023		79.0000 *	72.2703
Barium, Total	ug/L	MW-2D	10/10/2023		61.8000	72.2703
Cobalt, Total	ug/L	MW-11D	04/20/2016	ND	10.0000	1.2000
Cobalt, Total	ug/L	MW-11D	06/02/2016	ND	5.0000	1.2000
Cobalt, Total	ug/L	MW-11D	08/12/2016	ND	5.0000	1.2000
Cobalt, Total	ug/L	MW-11D	09/30/2016	ND	5.0000	1.2000
Cobalt, Total	ug/L	MW-11D	12/01/2016	ND	5.0000	1.2000
Cobalt, Total	ug/L	MW-11D	01/31/2017	ND	5.0000	1.2000
Cobalt, Total	ug/L	MW-11D	05/25/2017		11.2000 *	1.2000
Cobalt, Total	ug/L	MW-11D	08/10/2017	ND	5.0000	1.2000
Cobalt, Total	ug/L	MW-11D	05/22/2018	ND	1.0000	1.2000
Cobalt, Total	ug/L	MW-11D	09/12/2018	ND	1.0000	1.2000
Cobalt, Total	ug/L	MW-11D	05/08/2019	ND	1.0000	1.2000
Cobalt, Total	ug/L	MW-11D	11/14/2019	ND	1.0000	1.2000
Cobalt, Total	ug/L	MW-11D	05/07/2020	ND	1.0000	1.2000
Cobalt, Total	ug/L	MW-11D	11/12/2020	ND	1.0000	1.2000
Cobalt, Total	ug/L	MW-11D	05/17/2021	ND	1.0000	1.2000
Cobalt, Total	ug/L	MW-11D	11/17/2021	ND	1.0000	1.2000
Cobalt, Total	ug/L	MW-11D	05/12/2022	ND	1.0000	1.2000
Cobalt, Total	ug/L	MW-11D	05/03/2023		1.4000 *	1.2000
Cobalt, Total	ug/L	MW-11D	10/09/2023	ND	1.0000	1.2000
Fluoride	mg/L	MW-11D	04/20/2016		0.2600 *	0.1200
Fluoride	mg/L	MW-11D	06/02/2016		0.2300 *	0.1200
Fluoride	mg/L	MW-11D	08/12/2016		0.2100 *	0.1200
Fluoride	mg/L	MW-11D	09/30/2016		0.2300 *	0.1200
Fluoride	mg/L	MW-11D	12/01/2016		0.2200 *	0.1200
Fluoride	mg/L	MW-11D	01/31/2017		0.2400 *	0.1200
Fluoride	mg/L	MW-11D	05/25/2017		0.2500 *	0.1200
Fluoride	mg/L	MW-11D	08/10/2017		0.2300 *	0.1200
Fluoride	mg/L	MW-11D	09/28/2017		0.1900 *	0.1200
Fluoride	mg/L	MW-11D	05/22/2018		0.2000 *	0.1200
Fluoride	mg/L	MW-11D	09/12/2018		0.1700 *	0.1200
Fluoride	mg/L	MW-11D	05/08/2019		0.2000 *	0.1200
Fluoride	mg/L	MW-11D	11/14/2019		0.2000 *	0.1200
Fluoride	mg/L	MW-11D	05/07/2020		0.2400 *	0.1200
Fluoride	mg/L	MW-11D	11/12/2020		0.2500 *	0.1200

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-11D	05/17/2021	0.2500 *	0.1200
Fluoride	mg/L	MW-11D	11/17/2021	0.2300 *	0.1200
Fluoride	mg/L	MW-11D	05/12/2022	0.3000 *	0.1200
Fluoride	mg/L	MW-11D	11/29/2022	0.2800 *	0.1200
Fluoride	mg/L	MW-11D	05/03/2023	0.2800 *	0.1200
Fluoride	mg/L	MW-11D	10/09/2023	0.2800 *	0.1200
Fluoride	mg/L	MW-1D	04/19/2016	0.4400 *	0.1200
Fluoride	mg/L	MW-1D	06/02/2016	0.4400 *	0.1200
Fluoride	mg/L	MW-1D	08/10/2016	0.4200 *	0.1200
Fluoride	mg/L	MW-1D	09/30/2016	0.4600 *	0.1200
Fluoride	mg/L	MW-1D	12/02/2016	0.4600 *	0.1200
Fluoride	mg/L	MW-1D	01/31/2017	0.4100 *	0.1200
Fluoride	mg/L	MW-1D	05/26/2017	0.4200 *	0.1200
Fluoride	mg/L	MW-1D	08/11/2017	0.4200 *	0.1200
Fluoride	mg/L	MW-1D	09/28/2017	0.4200 *	0.1200
Fluoride	mg/L	MW-1D	05/23/2018	0.3600 *	0.1200
Fluoride	mg/L	MW-1D	09/11/2018	0.3200 *	0.1200
Fluoride	mg/L	MW-1D	05/08/2019	0.3500 *	0.1200
Fluoride	mg/L	MW-1D	11/14/2019	0.3700 *	0.1200
Fluoride	mg/L	MW-1D	05/05/2020	0.3700 *	0.1200
Fluoride	mg/L	MW-1D	11/11/2020	0.3700 *	0.1200
Fluoride	mg/L	MW-1D	05/25/2021	0.3100 *	0.1200
Fluoride	mg/L	MW-1D	11/09/2021	0.3000 *	0.1200
Fluoride	mg/L	MW-1D	05/10/2022	0.3200 *	0.1200
Fluoride	mg/L	MW-1D	11/22/2022	0.3800 *	0.1200
Fluoride	mg/L	MW-1D	04/19/2023	0.3400 *	0.1200
Fluoride	mg/L	MW-1D	10/11/2023	0.3200 *	0.1200
Fluoride	mg/L	MW-2D	04/19/2016	0.4200 *	0.1200
Fluoride	mg/L	MW-2D	06/02/2016	0.4100 *	0.1200
Fluoride	mg/L	MW-2D	08/11/2016	0.3800 *	0.1200
Fluoride	mg/L	MW-2D	09/30/2016	0.3900 *	0.1200
Fluoride	mg/L	MW-2D	12/02/2016	0.4100 *	0.1200
Fluoride	mg/L	MW-2D	01/31/2017	0.3600 *	0.1200
Fluoride	mg/L	MW-2D	05/26/2017	0.3800 *	0.1200
Fluoride	mg/L	MW-2D	08/11/2017	0.3800 *	0.1200
Fluoride	mg/L	MW-2D	09/27/2017	0.3600 *	0.1200
Fluoride	mg/L	MW-2D	05/22/2018	0.3200 *	0.1200
Fluoride	mg/L	MW-2D	09/11/2018	0.2900 *	0.1200

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-2D	05/09/2019	0.3200 *	0.1200
Fluoride	mg/L	MW-2D	11/13/2019	0.3300 *	0.1200
Fluoride	mg/L	MW-2D	05/05/2020	0.3500 *	0.1200
Fluoride	mg/L	MW-2D	11/11/2020	0.3400 *	0.1200
Fluoride	mg/L	MW-2D	05/11/2021	0.1900 *	0.1200
Fluoride	mg/L	MW-2D	11/10/2021	0.2700 *	0.1200
Fluoride	mg/L	MW-2D	05/11/2022	0.2900 *	0.1200
Fluoride	mg/L	MW-2D	11/15/2022	0.2800 *	0.1200
Fluoride	mg/L	MW-2D	04/18/2023	0.3200 *	0.1200
Fluoride	mg/L	MW-2D	10/10/2023	0.3100 *	0.1200
Fluoride	mg/L	MW-6D	04/20/2016	0.2000 *	0.1200
Fluoride	mg/L	MW-6D	06/01/2016	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	08/11/2016	0.1700 *	0.1200
Fluoride	mg/L	MW-6D	09/29/2016	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	12/01/2016	0.2000 *	0.1200
Fluoride	mg/L	MW-6D	01/30/2017	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	05/25/2017	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	08/10/2017	0.1900 *	0.1200
Fluoride	mg/L	MW-6D	09/27/2017	0.1900 *	0.1200
Fluoride	mg/L	MW-6D	05/22/2018	0.1200	0.1200
Fluoride	mg/L	MW-6D	09/10/2018	0.1200	0.1200
Fluoride	mg/L	MW-6D	05/08/2019	0.1600 *	0.1200
Fluoride	mg/L	MW-6D	11/14/2019	0.1400 *	0.1200
Fluoride	mg/L	MW-6D	05/08/2020	0.1300 *	0.1200
Fluoride	mg/L	MW-6D	11/10/2020	0.1700 *	0.1200
Fluoride	mg/L	MW-6D	05/18/2021	0.1600 *	0.1200
Fluoride	mg/L	MW-6D	11/09/2021	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	05/11/2022	0.2000 *	0.1200
Fluoride	mg/L	MW-6D	11/15/2022	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	05/01/2023	0.2200 *	0.1200
Fluoride	mg/L	MW-6D	10/10/2023	0.1700 *	0.1200
Lithium, Total	ug/L	MW-11D	04/20/2016	102.0000 *	20.0000
Lithium, Total	ug/L	MW-11D	06/02/2016	99.6000 *	20.0000
Lithium, Total	ug/L	MW-11D	08/12/2016	91.7000 *	20.0000
Lithium, Total	ug/L	MW-11D	09/30/2016	95.9000 *	20.0000
Lithium, Total	ug/L	MW-11D	12/01/2016	97.4000 *	20.0000
Lithium, Total	ug/L	MW-11D	01/31/2017	88.3000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/25/2017	134.0000 *	20.0000

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-11D	08/10/2017	98.8000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/22/2018	91.9000 *	20.0000
Lithium, Total	ug/L	MW-11D	09/12/2018	83.0000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/08/2019	93.0000 *	20.0000
Lithium, Total	ug/L	MW-11D	11/14/2019	93.0000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/07/2020	94.1000 *	20.0000
Lithium, Total	ug/L	MW-11D	11/12/2020	85.7000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/17/2021	84.1000 *	20.0000
Lithium, Total	ug/L	MW-11D	11/17/2021	82.7000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/12/2022	88.1000 *	20.0000
Lithium, Total	ug/L	MW-11D	11/29/2022	81.9000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/03/2023	79.2000 *	20.0000
Lithium, Total	ug/L	MW-11D	10/09/2023	83.2000 *	20.0000
Lithium, Total	ug/L	MW-1D	04/19/2016	108.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	06/02/2016	99.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	08/10/2016	91.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	09/30/2016	90.9000 *	20.0000
Lithium, Total	ug/L	MW-1D	12/02/2016	90.8000 *	20.0000
Lithium, Total	ug/L	MW-1D	01/31/2017	88.6000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/26/2017	94.2000 *	20.0000
Lithium, Total	ug/L	MW-1D	08/11/2017	92.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/23/2018	99.2000 *	20.0000
Lithium, Total	ug/L	MW-1D	09/11/2018	89.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/08/2019	99.7000 *	20.0000
Lithium, Total	ug/L	MW-1D	11/14/2019	90.2000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/05/2020	94.3000 *	20.0000
Lithium, Total	ug/L	MW-1D	11/11/2020	83.2000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/25/2021	82.6000 *	20.0000
Lithium, Total	ug/L	MW-1D	11/09/2021	93.6000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/10/2022	84.5000 *	20.0000
Lithium, Total	ug/L	MW-1D	11/22/2022	80.9000 *	20.0000
Lithium, Total	ug/L	MW-1D	04/19/2023	88.9000 *	20.0000
Lithium, Total	ug/L	MW-1D	10/11/2023	83.3000 *	20.0000
Lithium, Total	ug/L	MW-2D	04/19/2016	115.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	06/02/2016	110.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	08/11/2016	109.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	09/30/2016	106.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	12/02/2016	108.0000 *	20.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-2D	01/31/2017	105.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/26/2017	106.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	08/11/2017	102.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/22/2018	91.1000 *	20.0000
Lithium, Total	ug/L	MW-2D	09/11/2018	69.2000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/09/2019	86.5000 *	20.0000
Lithium, Total	ug/L	MW-2D	11/13/2019	76.5000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/05/2020	74.4000 *	20.0000
Lithium, Total	ug/L	MW-2D	11/11/2020	52.7000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/11/2021	51.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	11/10/2021	49.6000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/11/2022	51.2000 *	20.0000
Lithium, Total	ug/L	MW-2D	11/15/2022	49.2000 *	20.0000
Lithium, Total	ug/L	MW-2D	04/18/2023	47.9000 *	20.0000
Lithium, Total	ug/L	MW-2D	10/10/2023	34.7000 *	20.0000
Lithium, Total	ug/L	MW-6D	04/20/2016	155.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	06/01/2016	134.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	08/11/2016	138.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	09/29/2016	137.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	12/01/2016	132.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	01/30/2017	132.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/25/2017	134.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	08/10/2017	121.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/22/2018	105.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	09/10/2018	90.6000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/08/2019	113.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	11/14/2019	97.3000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/08/2020	99.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	11/10/2020	81.7000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/18/2021	84.5000 *	20.0000
Lithium, Total	ug/L	MW-6D	11/09/2021	86.3000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/11/2022	80.7000 *	20.0000
Lithium, Total	ug/L	MW-6D	11/15/2022	81.2000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/01/2023	70.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	10/10/2023	71.1000 *	20.0000
Molybdenum, Total	ug/L	MW-11D	04/20/2016	202.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	06/02/2016	200.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	08/12/2016	189.0000 *	10.0000

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-11D	09/30/2016	189.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	12/01/2016	191.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	01/31/2017	182.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/25/2017	183.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	08/10/2017	194.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/22/2018	189.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	09/12/2018	156.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/08/2019	175.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	11/14/2019	162.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/07/2020	176.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	11/12/2020	170.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/17/2021	173.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	11/17/2021	183.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/12/2022	169.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	11/29/2022	159.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/03/2023	149.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	10/09/2023	133.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	04/19/2016	108.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	06/02/2016	118.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	08/10/2016	128.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	09/30/2016	126.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	12/02/2016	123.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	01/31/2017	125.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/26/2017	119.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	08/11/2017	118.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/23/2018	107.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	09/11/2018	111.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/08/2019	122.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	11/14/2019	118.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/05/2020	119.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	11/11/2020	113.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/25/2021	106.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	11/09/2021	112.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/10/2022	104.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	11/22/2022	101.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	04/19/2023	96.6000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	10/11/2023	92.1000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	04/19/2016	103.0000 *	10.0000

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-2D	06/02/2016	107.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	08/11/2016	102.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	09/30/2016	99.4000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	12/02/2016	110.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	01/31/2017	117.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/26/2017	120.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	08/11/2017	120.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/22/2018	128.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	09/11/2018	101.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/09/2019	94.8000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	11/13/2019	93.3000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/05/2020	92.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	11/11/2020	76.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/11/2021	67.5000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	11/10/2021	67.2000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/11/2022	59.6000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	11/15/2022	52.9000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	04/18/2023	47.6000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	10/10/2023	47.8000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	04/20/2016	184.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	06/01/2016	185.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	08/11/2016	188.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	09/29/2016	180.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	12/01/2016	188.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	01/30/2017	194.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/25/2017	208.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	08/10/2017	213.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/22/2018	208.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	09/10/2018	190.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/08/2019	198.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	11/14/2019	175.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/08/2020	188.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	11/10/2020	210.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/18/2021	219.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	11/09/2021	244.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/11/2022	209.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	11/15/2022	210.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/01/2023	212.0000 *	10.0000

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-6D	10/10/2023	203.0000 *	10.0000

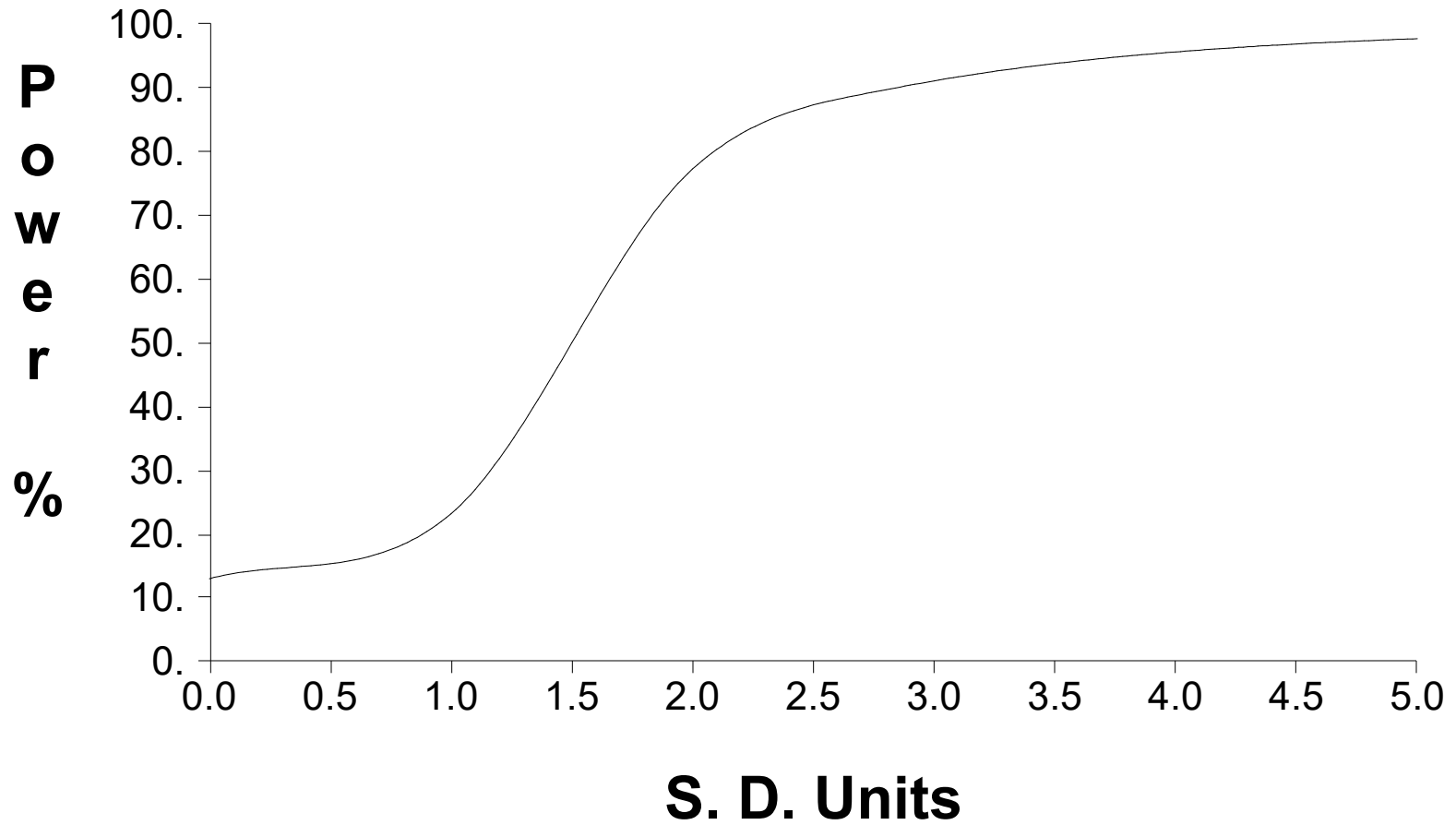
* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



April 2024

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13S	09/25/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13S	05/07/2020	ND	6.0000	1.0000	**
Antimony, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Antimony, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	06/22/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	07/27/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	11/16/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13S	05/19/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13S	11/18/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13S	04/18/2023	ND	1.0000		
Antimony, Total	ug/L	MW-13S	10/11/2023	ND	1.0000		
Antimony, Total	ug/L	MW-13S	04/10/2024	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	09/25/2019		5.8000		
Arsenic, Total	ug/L	MW-13S	05/07/2020	ND	10.0000	1.0000	**
Arsenic, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	06/22/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	07/27/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	11/16/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	05/19/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	11/18/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	04/18/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	10/11/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13S	04/10/2024	ND	1.0000		
Barium, Total	ug/L	MW-13S	08/08/2019		50.0000		
Barium, Total	ug/L	MW-13S	09/25/2019		69.3000		
Barium, Total	ug/L	MW-13S	05/07/2020		56.4000		
Barium, Total	ug/L	MW-13S	11/12/2020		44.5000		
Barium, Total	ug/L	MW-13S	02/25/2021		53.3000		
Barium, Total	ug/L	MW-13S	03/29/2021		60.3000		
Barium, Total	ug/L	MW-13S	05/20/2021		51.0000		
Barium, Total	ug/L	MW-13S	06/22/2021		44.5000		
Barium, Total	ug/L	MW-13S	07/27/2021		48.3000		
Barium, Total	ug/L	MW-13S	11/16/2021		50.4000		
Barium, Total	ug/L	MW-13S	05/19/2022		58.6000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium, Total	ug/L	MW-13S	11/18/2022		52.6000		
Barium, Total	ug/L	MW-13S	04/18/2023		50.7000		
Barium, Total	ug/L	MW-13S	10/11/2023		54.1000		
Barium, Total	ug/L	MW-13S	04/10/2024		44.5000		
Beryllium, Total	ug/L	MW-13S	08/08/2019	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	09/25/2019	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	05/07/2020	ND	4.0000	0.2000	**
Beryllium, Total	ug/L	MW-13S	11/12/2020	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	02/25/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	03/29/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	05/20/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	06/22/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	07/27/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	05/19/2022	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	04/18/2023	ND	0.2000		
Beryllium, Total	ug/L	MW-13S	04/10/2024	ND	0.2000		
Cadmium, Total	ug/L	MW-13S	08/08/2019	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	09/25/2019	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	05/07/2020	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	11/12/2020	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	02/25/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	03/29/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	05/20/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	06/22/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	07/27/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	05/19/2022	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	04/18/2023	ND	2.0000		
Cadmium, Total	ug/L	MW-13S	04/10/2024	ND	2.0000		
Chromium, Total	ug/L	MW-13S	08/08/2019	ND	10.0000		
Chromium, Total	ug/L	MW-13S	09/25/2019	ND	10.0000		
Chromium, Total	ug/L	MW-13S	05/07/2020	ND	10.0000		
Chromium, Total	ug/L	MW-13S	11/12/2020	ND	10.0000		
Chromium, Total	ug/L	MW-13S	02/25/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	03/29/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	05/20/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	06/22/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	07/27/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13S	05/19/2022	ND	10.0000		
Chromium, Total	ug/L	MW-13S	04/18/2023	ND	10.0000		
Chromium, Total	ug/L	MW-13S	04/10/2024	ND	10.0000		
Cobalt, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt, Total	ug/L	MW-13S	09/25/2019		5.8000		
Cobalt, Total	ug/L	MW-13S	05/07/2020	ND	10.0000	1.0000	**
Cobalt, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	06/22/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	07/27/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	11/16/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	05/19/2022	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	04/18/2023	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	10/11/2023	ND	1.0000		
Cobalt, Total	ug/L	MW-13S	04/10/2024	ND	1.0000		
Fluoride	mg/L	MW-13S	08/08/2019	ND	0.1000		
Fluoride	mg/L	MW-13S	09/25/2019	ND	0.1000		
Fluoride	mg/L	MW-13S	05/07/2020	ND	0.1000		
Fluoride	mg/L	MW-13S	11/12/2020	ND	0.1000		
Fluoride	mg/L	MW-13S	02/25/2021	ND	0.1000		
Fluoride	mg/L	MW-13S	03/29/2021	ND	0.1000		
Fluoride	mg/L	MW-13S	05/20/2021	ND	0.1000		
Fluoride	mg/L	MW-13S	06/22/2021	ND	0.1000		
Fluoride	mg/L	MW-13S	07/27/2021	ND	0.1000		
Fluoride	mg/L	MW-13S	11/16/2021	ND	0.1000		
Fluoride	mg/L	MW-13S	05/19/2022	ND	0.1000		
Fluoride	mg/L	MW-13S	11/18/2022	ND	0.1000		
Fluoride	mg/L	MW-13S	04/18/2023	ND	0.1000		
Fluoride	mg/L	MW-13S	10/11/2023	ND	0.1000		
Fluoride	mg/L	MW-13S	04/10/2024	ND	0.1000		
Lead, Total	ug/L	MW-13S	08/08/2019	ND	10.0000		
Lead, Total	ug/L	MW-13S	09/25/2019	ND	10.0000		
Lead, Total	ug/L	MW-13S	05/07/2020	ND	10.0000		
Lead, Total	ug/L	MW-13S	11/12/2020	ND	10.0000		
Lead, Total	ug/L	MW-13S	02/25/2021	ND	10.0000		
Lead, Total	ug/L	MW-13S	03/29/2021	ND	10.0000		
Lead, Total	ug/L	MW-13S	05/20/2021	ND	10.0000		
Lead, Total	ug/L	MW-13S	06/22/2021	ND	10.0000		
Lead, Total	ug/L	MW-13S	07/27/2021	ND	10.0000		
Lead, Total	ug/L	MW-13S	05/19/2022	ND	10.0000		
Lead, Total	ug/L	MW-13S	04/18/2023	ND	10.0000		
Lead, Total	ug/L	MW-13S	04/10/2024	ND	10.0000		
Lithium, Total	ug/L	MW-13S	08/08/2019	ND	20.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lithium, Total	ug/L	MW-13S	09/25/2019	ND	20.0000		
Lithium, Total	ug/L	MW-13S	05/07/2020	ND	20.0000		
Lithium, Total	ug/L	MW-13S	11/12/2020	ND	20.0000		
Lithium, Total	ug/L	MW-13S	02/25/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13S	03/29/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13S	05/20/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13S	06/22/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13S	07/27/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13S	11/16/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13S	05/19/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13S	11/18/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13S	04/18/2023	ND	20.0000		
Lithium, Total	ug/L	MW-13S	10/11/2023	ND	20.0000		
Lithium, Total	ug/L	MW-13S	04/10/2024	ND	20.0000		
Mercury	ug/L	MW-13S	08/08/2019	ND	2.0000		
Mercury	ug/L	MW-13S	09/25/2019	ND	2.0000		
Mercury	ug/L	MW-13S	11/12/2020	ND	2.0000		
Mercury	ug/L	MW-13S	02/25/2021	ND	2.0000		
Mercury	ug/L	MW-13S	03/29/2021	ND	2.0000		
Mercury	ug/L	MW-13S	05/20/2021	ND	2.0000		
Mercury	ug/L	MW-13S	06/22/2021	ND	2.0000		
Mercury	ug/L	MW-13S	07/27/2021	ND	2.0000		
Mercury	ug/L	MW-13S	05/19/2022	ND	0.2000	2.0000	**
Mercury	ug/L	MW-13S	04/18/2023	ND	0.2000	2.0000	**
Mercury	ug/L	MW-13S	04/10/2024	ND	0.2000	2.0000	**
Molybdenum, Total	ug/L	MW-13S	08/08/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	09/25/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	05/07/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	11/12/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	02/25/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	03/29/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	05/20/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	06/22/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	07/27/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	11/16/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	05/19/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	11/18/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	04/18/2023	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	10/11/2023	ND	10.0000		
Molybdenum, Total	ug/L	MW-13S	04/10/2024	ND	10.0000		
Selenium, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, Total	ug/L	MW-13S	09/25/2019	ND	1.0000		
Selenium, Total	ug/L	MW-13S	05/07/2020	ND	10.0000	1.0000	**
Selenium, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Selenium, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	06/22/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	07/27/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	11/16/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13S	05/19/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13S	11/18/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13S	04/18/2023	ND	1.0000		
Selenium, Total	ug/L	MW-13S	10/11/2023	ND	1.0000		
Selenium, Total	ug/L	MW-13S	04/10/2024	ND	1.0000		
Thallium, Total	ug/L	MW-13S	08/08/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13S	09/25/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13S	05/07/2020	ND	10.0000	1.0000	**
Thallium, Total	ug/L	MW-13S	11/12/2020	ND	1.0000		
Thallium, Total	ug/L	MW-13S	02/25/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	03/29/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	05/20/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	06/22/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	07/27/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13S	05/19/2022	ND	1.0000		
Thallium, Total	ug/L	MW-13S	04/18/2023	ND	1.0000		
Thallium, Total	ug/L	MW-13S	04/10/2024	ND	1.0000		
Total Radium	pCi/L	MW-13S	08/08/2019		0.4940		
Total Radium	pCi/L	MW-13S	09/25/2019		1.7800		
Total Radium	pCi/L	MW-13S	11/12/2020		1.1700		
Total Radium	pCi/L	MW-13S	02/25/2021		0.8130		
Total Radium	pCi/L	MW-13S	03/29/2021	ND	1.6500	1.3900	**
Total Radium	pCi/L	MW-13S	05/20/2021	ND	2.1500	1.3900	**
Total Radium	pCi/L	MW-13S	06/22/2021		0.7480		
Total Radium	pCi/L	MW-13S	07/27/2021	ND	1.1900	1.3900	**
Total Radium	pCi/L	MW-13S	11/16/2021	ND	1.2200	1.3900	**
Total Radium	pCi/L	MW-13S	05/19/2022	ND	2.0300	1.3900	**
Total Radium	pCi/L	MW-13S	11/18/2022	ND	1.3900		
Total Radium	pCi/L	MW-13S	04/18/2023	ND	1.0600	1.3900	**
Total Radium	pCi/L	MW-13S	10/11/2023		0.9600		
Total Radium	pCi/L	MW-13S	04/10/2024	ND	1.6700	1.3900	**

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-10S	04/17/2024		2.4000	***	1.0000
Antimony, Total	ug/L	MW-11S	04/09/2024		1.3000	***	1.0000
Antimony, Total	ug/L	MW-12S	04/05/2024		2.0000	***	1.0000
Antimony, Total	ug/L	MW-1S	04/09/2024	ND	1.0000	**	1.0000
Antimony, Total	ug/L	MW-2S	04/05/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-3S	04/05/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6S	04/04/2024		1.3000	***	1.0000
Antimony, Total	ug/L	MW-7S	04/10/2024		2.4000	***	1.0000
Arsenic, Total	ug/L	MW-10S	04/17/2024		2.1000		5.8000
Arsenic, Total	ug/L	MW-11S	04/09/2024		76.5000	***	5.8000
Arsenic, Total	ug/L	MW-12S	04/05/2024		5.0000		5.8000
Arsenic, Total	ug/L	MW-1S	04/09/2024		2.1000		5.8000
Arsenic, Total	ug/L	MW-2S	04/05/2024		6.9000	***	5.8000
Arsenic, Total	ug/L	MW-3S	04/05/2024	ND	1.0000		5.8000
Arsenic, Total	ug/L	MW-6S	04/04/2024	ND	1.0000		5.8000
Arsenic, Total	ug/L	MW-7S	04/10/2024	ND	1.0000		5.8000
Barium, Total	ug/L	MW-10S	04/17/2024		97.6000	*	70.6512
Barium, Total	ug/L	MW-11S	04/09/2024		79.9000	***	70.6512
Barium, Total	ug/L	MW-12S	04/05/2024		172.0000	***	70.6512
Barium, Total	ug/L	MW-1S	04/09/2024		65.0000	**	70.6512
Barium, Total	ug/L	MW-2S	04/05/2024		120.0000	***	70.6512
Barium, Total	ug/L	MW-3S	04/05/2024		106.0000	***	70.6512
Barium, Total	ug/L	MW-6S	04/04/2024		99.6000	***	70.6512
Barium, Total	ug/L	MW-7S	04/10/2024		54.1000		70.6512
Beryllium, Total	ug/L	MW-10S	04/17/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-11S	04/09/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-12S	04/05/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-1S	04/09/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-2S	04/05/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-3S	04/05/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-6S	04/04/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-7S	04/10/2024	ND	0.2000		0.2000
Cadmium, Total	ug/L	MW-10S	04/17/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-11S	04/09/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-12S	04/05/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-1S	04/09/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-2S	04/05/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-3S	04/05/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-6S	04/04/2024	ND	2.0000		2.0000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Cadmium, Total	ug/L	MW-7S	04/10/2024	ND	2.0000		2.0000
Chromium, Total	ug/L	MW-10S	04/17/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-11S	04/09/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-12S	04/05/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-1S	04/09/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-2S	04/05/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-3S	04/05/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-6S	04/04/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-7S	04/10/2024	ND	10.0000		10.0000
Cobalt, Total	ug/L	MW-10S	04/17/2024		1.6000		5.8000
Cobalt, Total	ug/L	MW-11S	04/09/2024	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-12S	04/05/2024		1.7000		5.8000
Cobalt, Total	ug/L	MW-1S	04/09/2024	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-2S	04/05/2024	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-3S	04/05/2024	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-6S	04/04/2024	ND	1.0000		5.8000
Cobalt, Total	ug/L	MW-7S	04/10/2024		1.3000		5.8000
Fluoride	mg/L	MW-10S	04/17/2024		0.1300	***	0.1000
Fluoride	mg/L	MW-11S	04/09/2024		0.1800	***	0.1000
Fluoride	mg/L	MW-12S	04/05/2024		0.2700	***	0.1000
Fluoride	mg/L	MW-1S	04/09/2024		0.1100	*	0.1000
Fluoride	mg/L	MW-2S	04/05/2024		0.2100	***	0.1000
Fluoride	mg/L	MW-3S	04/05/2024		0.3300	***	0.1000
Fluoride	mg/L	MW-6S	04/04/2024		0.1700	***	0.1000
Fluoride	mg/L	MW-7S	04/10/2024	ND	0.1000		0.1000
Lead, Total	ug/L	MW-10S	04/17/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-11S	04/09/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-12S	04/05/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-1S	04/09/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-2S	04/05/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-3S	04/05/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-6S	04/04/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-7S	04/10/2024	ND	10.0000		10.0000
Lithium, Total	ug/L	MW-10S	04/17/2024		72.9000	***	20.0000
Lithium, Total	ug/L	MW-11S	04/09/2024		43.1000	***	20.0000
Lithium, Total	ug/L	MW-12S	04/05/2024		138.0000	***	20.0000
Lithium, Total	ug/L	MW-1S	04/09/2024		53.3000	***	20.0000
Lithium, Total	ug/L	MW-2S	04/05/2024		34.4000	***	20.0000
Lithium, Total	ug/L	MW-3S	04/05/2024	ND	20.0000		20.0000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	ug/L	MW-6S	04/04/2024		107.0000	***	20.0000
Lithium, Total	ug/L	MW-7S	04/10/2024		87.6000	***	20.0000
Mercury	ug/L	MW-10S	04/17/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-11S	04/09/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-12S	04/05/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-1S	04/09/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-2S	04/05/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-3S	04/05/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-6S	04/04/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-7S	04/10/2024	ND	0.2000		2.0000
Molybdenum, Total	ug/L	MW-10S	04/17/2024		45.2000	***	10.0000
Molybdenum, Total	ug/L	MW-11S	04/09/2024		72.0000	***	10.0000
Molybdenum, Total	ug/L	MW-12S	04/05/2024		28.6000	***	10.0000
Molybdenum, Total	ug/L	MW-1S	04/09/2024		13.4000	***	10.0000
Molybdenum, Total	ug/L	MW-2S	04/05/2024		13.9000	*	10.0000
Molybdenum, Total	ug/L	MW-3S	04/05/2024		44.3000	***	10.0000
Molybdenum, Total	ug/L	MW-6S	04/04/2024		91.8000	***	10.0000
Molybdenum, Total	ug/L	MW-7S	04/10/2024		23.4000	***	10.0000
Selenium, Total	ug/L	MW-10S	04/17/2024		36.3000	***	1.0000
Selenium, Total	ug/L	MW-11S	04/09/2024		10.6000	***	1.0000
Selenium, Total	ug/L	MW-12S	04/05/2024		21.2000	***	1.0000
Selenium, Total	ug/L	MW-1S	04/09/2024		17.9000	***	1.0000
Selenium, Total	ug/L	MW-2S	04/05/2024		3.1000	***	1.0000
Selenium, Total	ug/L	MW-3S	04/05/2024	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-6S	04/04/2024		29.3000	***	1.0000
Selenium, Total	ug/L	MW-7S	04/10/2024		20.8000	***	1.0000
Thallium, Total	ug/L	MW-10S	04/17/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-11S	04/09/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-12S	04/05/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-1S	04/09/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-2S	04/05/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-3S	04/05/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-6S	04/04/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-7S	04/10/2024	ND	1.0000		1.0000
Total Radium	pCi/L	MW-10S	04/17/2024		1.4700		1.7800
Total Radium	pCi/L	MW-11S	04/09/2024	ND	1.9300		1.7800
Total Radium	pCi/L	MW-12S	04/05/2024	ND	1.6000		1.7800
Total Radium	pCi/L	MW-1S	04/09/2024	ND	1.4600		1.7800
Total Radium	pCi/L	MW-2S	04/05/2024	ND	1.4000		1.7800

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Total Radium	pCi/L	MW-3S	04/05/2024	ND	1.5800		1.7800
Total Radium	pCi/L	MW-6S	04/04/2024		0.9070		1.7800
Total Radium	pCi/L	MW-7S	04/10/2024	ND	2.0000		1.7800

- * - Current value failed - awaiting verification.
 - ** - Current value passed - previous exceedance not verified.
 - *** - Current value failed - exceedance verified.
 - **** - Current value passed - awaiting one more verification.
 - ***** - Insufficient background data to compute prediction limit.
- ND = Not Detected, Result = detection limit.

Table C-3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	15	0.000	70	159	0.440
Arsenic, Total	1	15	0.067	66	158	0.418
Barium, Total	15	15	1.000	159	159	1.000
Beryllium, Total	0	12	0.000	0	120	0.000
Cadmium, Total	0	12	0.000	0	120	0.000
Chromium, Total	0	12	0.000	0	120	0.000
Cobalt, Total	1	14	0.071	9	153	0.059
Fluoride	0	15	0.000	154	167	0.922
Lead, Total	0	12	0.000	3	120	0.025
Lithium, Total	0	15	0.000	151	159	0.950
Mercury	0	11	0.000	0	120	0.000
Molybdenum, Total	0	15	0.000	154	159	0.969
Selenium, Total	0	15	0.000	100	159	0.629
Thallium, Total	0	12	0.000	0	120	0.000
Total Radium	6	14	0.429	93	159	0.585

N = Total number of measurements in all wells.
 Detect = Total number of detections in all wells.
 Proportion = Detect/N.

Table C-4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Arsenic, Total	1	15	0.067	4.373	4.373					2.326	non-norm	nonpar
Barium, Total	15	15	1.000	0.934	0.301					2.326	normal	normal
Beryllium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Cadmium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Chromium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Cobalt, Total	1	14	0.071	20.331	20.331					2.326	non-norm	nonpar
Fluoride	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Lead, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Lithium, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Mercury	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Molybdenum, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Selenium, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Thallium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Total Radium	6	14	0.429	2.109	2.745					2.326	normal	nonpar

* - Distribution override for that constituent.
 Fit to distribution is confirmed if G <= critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table C-5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, Total	ug/L	0	15					1.0000	nonpar	***	0.95
Arsenic, Total	ug/L	1	15					5.8000	nonpar		0.95
Barium, Total	ug/L	15	15	52.5667	6.6785	0.0100	2.7079	70.6512	normal		
Beryllium, Total	ug/L	0	12					0.2000	nonpar	***	0.92
Cadmium, Total	ug/L	0	12					2.0000	nonpar	***	0.92
Chromium, Total	ug/L	0	12					10.0000	nonpar	***	0.92
Cobalt, Total	ug/L	1	14					5.8000	nonpar		0.94
Fluoride	mg/L	0	15					0.1000	nonpar	***	0.95
Lead, Total	ug/L	0	12					10.0000	nonpar	***	0.92
Lithium, Total	ug/L	0	15					20.0000	nonpar	***	0.95
Mercury	ug/L	0	11					2.0000	nonpar	***	0.91
Molybdenum, Total	ug/L	0	15					10.0000	nonpar	***	0.95
Selenium, Total	ug/L	0	15					1.0000	nonpar	***	0.95
Thallium, Total	ug/L	0	12					1.0000	nonpar	***	0.92
Total Radium	pCi/L	6	14					1.7800	nonpar		0.94

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table C-6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
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N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-10S	04/21/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	05/31/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	08/11/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	09/29/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	11/30/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	01/30/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	05/24/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	08/09/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-10S	05/23/2018		1.0000	**	1.0000
Antimony, Total	ug/L	MW-10S	09/11/2018		1.4000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/07/2019		1.6000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/07/2020		2.1000	*	1.0000
Antimony, Total	ug/L	MW-10S	11/11/2020		3.1000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/21/2021		2.2000	*	1.0000
Antimony, Total	ug/L	MW-10S	11/12/2021		1.8000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/18/2022		2.2000	*	1.0000
Antimony, Total	ug/L	MW-10S	05/04/2023		2.4000	*	1.0000
Antimony, Total	ug/L	MW-10S	04/17/2024		2.4000	*	1.0000
Antimony, Total	ug/L	MW-11S	04/20/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	06/02/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	08/12/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	09/30/2016		6.3000	*	1.0000
Antimony, Total	ug/L	MW-11S	12/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	01/31/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	05/25/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	08/10/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-11S	05/23/2018		1.9000	*	1.0000
Antimony, Total	ug/L	MW-11S	09/11/2018		1.8000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/08/2019		1.7000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/07/2020		1.6000	*	1.0000
Antimony, Total	ug/L	MW-11S	11/12/2020		1.4000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/17/2021		1.5000	*	1.0000
Antimony, Total	ug/L	MW-11S	11/17/2021		1.4000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/12/2022		1.4000	*	1.0000
Antimony, Total	ug/L	MW-11S	11/21/2022		1.3000	*	1.0000
Antimony, Total	ug/L	MW-11S	05/02/2023		1.4000	*	1.0000
Antimony, Total	ug/L	MW-11S	04/09/2024		1.3000	*	1.0000
Antimony, Total	ug/L	MW-12S	04/20/2016	ND	6.0000		1.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-12S	06/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	08/11/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	09/29/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	12/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	01/30/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	05/25/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	08/10/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-12S	05/23/2018		1.2000	*	1.0000
Antimony, Total	ug/L	MW-12S	09/12/2018		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	05/08/2019		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	05/08/2020		1.4000	*	1.0000
Antimony, Total	ug/L	MW-12S	11/12/2020		1.3000	*	1.0000
Antimony, Total	ug/L	MW-12S	05/13/2021		1.2000	*	1.0000
Antimony, Total	ug/L	MW-12S	11/10/2021		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	05/12/2022		1.4000	*	1.0000
Antimony, Total	ug/L	MW-12S	11/15/2022		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	04/27/2023		1.5000	*	1.0000
Antimony, Total	ug/L	MW-12S	10/11/2023		1.8000	*	1.0000
Antimony, Total	ug/L	MW-12S	04/05/2024		2.0000	*	1.0000
Antimony, Total	ug/L	MW-1S	04/19/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	06/02/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	08/10/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	09/30/2016		6.3000	*	1.0000
Antimony, Total	ug/L	MW-1S	12/02/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	01/31/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	05/26/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	08/11/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-1S	05/23/2018		4.2000	*	1.0000
Antimony, Total	ug/L	MW-1S	09/11/2018		4.4000	*	1.0000
Antimony, Total	ug/L	MW-1S	05/08/2019		1.8000	*	1.0000
Antimony, Total	ug/L	MW-1S	11/14/2019		3.5000	*	1.0000
Antimony, Total	ug/L	MW-1S	05/05/2020		2.6000	*	1.0000
Antimony, Total	ug/L	MW-1S	11/11/2020		2.9000	*	1.0000
Antimony, Total	ug/L	MW-1S	05/25/2021		1.9000	*	1.0000
Antimony, Total	ug/L	MW-1S	11/09/2021		1.8000	*	1.0000
Antimony, Total	ug/L	MW-1S	05/10/2022		1.7000	*	1.0000
Antimony, Total	ug/L	MW-1S	11/22/2022		2.7000	*	1.0000
Antimony, Total	ug/L	MW-1S	04/23/2023		1.4000	*	1.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-1S	10/11/2023		1.9000 *		1.0000
Antimony, Total	ug/L	MW-1S	04/09/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6S	04/20/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	06/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	08/11/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	09/29/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	12/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	01/30/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	05/25/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	08/10/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-6S	05/22/2018		1.1000 *		1.0000
Antimony, Total	ug/L	MW-6S	09/11/2018		1.6000 *		1.0000
Antimony, Total	ug/L	MW-6S	05/08/2019	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6S	11/13/2019		1.5000 *		1.0000
Antimony, Total	ug/L	MW-6S	05/08/2020		1.1000 *		1.0000
Antimony, Total	ug/L	MW-6S	11/19/2020		1.4000 *		1.0000
Antimony, Total	ug/L	MW-6S	05/18/2021		1.4000 *		1.0000
Antimony, Total	ug/L	MW-6S	11/09/2021		1.2000 *		1.0000
Antimony, Total	ug/L	MW-6S	05/11/2022	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6S	05/01/2023		1.0000 **		1.0000
Antimony, Total	ug/L	MW-6S	04/04/2024		1.3000 *		1.0000
Antimony, Total	ug/L	MW-7S	04/20/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	06/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	08/11/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	09/29/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	12/01/2016	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	01/30/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	05/25/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	08/10/2017	ND	6.0000		1.0000
Antimony, Total	ug/L	MW-7S	05/23/2018		3.3000 *		1.0000
Antimony, Total	ug/L	MW-7S	09/11/2018		2.8000 *		1.0000
Antimony, Total	ug/L	MW-7S	05/07/2019		1.7000 *		1.0000
Antimony, Total	ug/L	MW-7S	05/07/2020		2.5000 *		1.0000
Antimony, Total	ug/L	MW-7S	11/11/2020		3.1000 *		1.0000
Antimony, Total	ug/L	MW-7S	05/17/2021		2.7000 *		1.0000
Antimony, Total	ug/L	MW-7S	11/18/2021		3.8000 *		1.0000
Antimony, Total	ug/L	MW-7S	05/12/2022		2.3000 *		1.0000
Antimony, Total	ug/L	MW-7S	11/16/2022		2.6000 *		1.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-7S	05/03/2023		2.9000	*	1.0000
Antimony, Total	ug/L	MW-7S	10/09/2023		2.9000	*	1.0000
Antimony, Total	ug/L	MW-7S	04/10/2024		2.4000	*	1.0000
Arsenic, Total	ug/L	MW-11S	04/20/2016		146.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	06/02/2016		100.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	08/12/2016		61.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	09/30/2016		64.5000	*	5.8000
Arsenic, Total	ug/L	MW-11S	12/01/2016		41.6000	*	5.8000
Arsenic, Total	ug/L	MW-11S	01/31/2017		107.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/25/2017		115.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	08/10/2017		130.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/23/2018		126.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	09/11/2018		63.2000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/08/2019		79.6000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/07/2020		108.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	11/12/2020		141.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/17/2021		110.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	11/17/2021		77.8000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/12/2022		103.0000	*	5.8000
Arsenic, Total	ug/L	MW-11S	11/21/2022		49.2000	*	5.8000
Arsenic, Total	ug/L	MW-11S	05/02/2023		59.8000	*	5.8000
Arsenic, Total	ug/L	MW-11S	04/09/2024		76.5000	*	5.8000
Arsenic, Total	ug/L	MW-2S	04/19/2016	ND	15.9000	*	5.8000
Arsenic, Total	ug/L	MW-2S	06/01/2016		10.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	08/11/2016		16.9000	*	5.8000
Arsenic, Total	ug/L	MW-2S	09/30/2016		19.8000	*	5.8000
Arsenic, Total	ug/L	MW-2S	12/02/2016		21.7000	*	5.8000
Arsenic, Total	ug/L	MW-2S	01/31/2017		17.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	05/26/2017	ND	10.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	08/11/2017	ND	10.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	05/22/2018		28.5000	*	5.8000
Arsenic, Total	ug/L	MW-2S	09/11/2018		60.3000	***	5.8000
Arsenic, Total	ug/L	MW-2S	05/09/2019		15.1000	*	5.8000
Arsenic, Total	ug/L	MW-2S	11/14/2019		8.4000	*	5.8000
Arsenic, Total	ug/L	MW-2S	05/08/2020		15.0000	*	5.8000
Arsenic, Total	ug/L	MW-2S	11/11/2020		8.9000	*	5.8000
Arsenic, Total	ug/L	MW-2S	05/11/2021		12.4000	*	5.8000
Arsenic, Total	ug/L	MW-2S	11/10/2021		13.7000	*	5.8000

* - Significantly increased over background.
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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Arsenic, Total	ug/L	MW-2S	05/11/2022	13.3000 *	5.8000
Arsenic, Total	ug/L	MW-2S	11/15/2022	6.2000 *	5.8000
Arsenic, Total	ug/L	MW-2S	04/18/2023	13.9000 *	5.8000
Arsenic, Total	ug/L	MW-2S	10/10/2023	5.9000 *	5.8000
Arsenic, Total	ug/L	MW-2S	04/05/2024	6.9000 *	5.8000
Barium, Total	ug/L	MW-10S	04/21/2016	78.3000 *	70.6512
Barium, Total	ug/L	MW-10S	05/31/2016	76.6000 *	70.6512
Barium, Total	ug/L	MW-10S	08/11/2016	68.2000	70.6512
Barium, Total	ug/L	MW-10S	09/29/2016	66.5000	70.6512
Barium, Total	ug/L	MW-10S	11/30/2016	73.1000 *	70.6512
Barium, Total	ug/L	MW-10S	01/30/2017	67.4000	70.6512
Barium, Total	ug/L	MW-10S	05/24/2017	69.6000	70.6512
Barium, Total	ug/L	MW-10S	08/09/2017	69.3000	70.6512
Barium, Total	ug/L	MW-10S	05/23/2018	65.4000	70.6512
Barium, Total	ug/L	MW-10S	09/11/2018	67.0000	70.6512
Barium, Total	ug/L	MW-10S	05/07/2019	91.2000 *	70.6512
Barium, Total	ug/L	MW-10S	05/07/2020	93.4000 *	70.6512
Barium, Total	ug/L	MW-10S	11/11/2020	95.0000 *	70.6512
Barium, Total	ug/L	MW-10S	05/21/2021	73.7000 *	70.6512
Barium, Total	ug/L	MW-10S	11/12/2021	83.6000 *	70.6512
Barium, Total	ug/L	MW-10S	05/18/2022	80.1000 *	70.6512
Barium, Total	ug/L	MW-10S	05/04/2023	69.5000	70.6512
Barium, Total	ug/L	MW-10S	04/17/2024	97.6000 *	70.6512
Barium, Total	ug/L	MW-11S	04/20/2016	107.0000 *	70.6512
Barium, Total	ug/L	MW-11S	06/02/2016	72.1000 *	70.6512
Barium, Total	ug/L	MW-11S	08/12/2016	76.2000 *	70.6512
Barium, Total	ug/L	MW-11S	09/30/2016	70.6000	70.6512
Barium, Total	ug/L	MW-11S	12/01/2016	66.9000	70.6512
Barium, Total	ug/L	MW-11S	01/31/2017	72.2000 *	70.6512
Barium, Total	ug/L	MW-11S	05/25/2017	73.8000 *	70.6512
Barium, Total	ug/L	MW-11S	08/10/2017	74.1000 *	70.6512
Barium, Total	ug/L	MW-11S	05/23/2018	66.5000	70.6512
Barium, Total	ug/L	MW-11S	09/11/2018	63.9000	70.6512
Barium, Total	ug/L	MW-11S	05/08/2019	85.4000 *	70.6512
Barium, Total	ug/L	MW-11S	05/07/2020	84.3000 *	70.6512
Barium, Total	ug/L	MW-11S	11/12/2020	133.0000 *	70.6512
Barium, Total	ug/L	MW-11S	05/17/2021	123.0000 *	70.6512
Barium, Total	ug/L	MW-11S	11/17/2021	106.0000 *	70.6512

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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-11S	05/12/2022	88.3000 *	70.6512
Barium, Total	ug/L	MW-11S	11/21/2022	152.0000 *	70.6512
Barium, Total	ug/L	MW-11S	05/02/2023	77.1000 *	70.6512
Barium, Total	ug/L	MW-11S	04/09/2024	79.9000 *	70.6512
Barium, Total	ug/L	MW-12S	04/20/2016	123.0000 *	70.6512
Barium, Total	ug/L	MW-12S	06/01/2016	81.1000 *	70.6512
Barium, Total	ug/L	MW-12S	08/11/2016	68.8000 *	70.6512
Barium, Total	ug/L	MW-12S	09/29/2016	60.3000 *	70.6512
Barium, Total	ug/L	MW-12S	12/01/2016	67.4000 *	70.6512
Barium, Total	ug/L	MW-12S	01/30/2017	67.3000 *	70.6512
Barium, Total	ug/L	MW-12S	05/25/2017	87.3000 *	70.6512
Barium, Total	ug/L	MW-12S	08/10/2017	113.0000 *	70.6512
Barium, Total	ug/L	MW-12S	05/23/2018	123.0000 *	70.6512
Barium, Total	ug/L	MW-12S	09/12/2018	78.1000 *	70.6512
Barium, Total	ug/L	MW-12S	05/08/2019	119.0000 *	70.6512
Barium, Total	ug/L	MW-12S	05/08/2020	131.0000 *	70.6512
Barium, Total	ug/L	MW-12S	11/12/2020	112.0000 *	70.6512
Barium, Total	ug/L	MW-12S	05/13/2021	99.4000 *	70.6512
Barium, Total	ug/L	MW-12S	11/10/2021	127.0000 *	70.6512
Barium, Total	ug/L	MW-12S	05/12/2022	125.0000 *	70.6512
Barium, Total	ug/L	MW-12S	11/15/2022	120.0000 *	70.6512
Barium, Total	ug/L	MW-12S	04/27/2023	122.0000 *	70.6512
Barium, Total	ug/L	MW-12S	10/11/2023	136.0000 *	70.6512
Barium, Total	ug/L	MW-12S	04/05/2024	172.0000 *	70.6512
Barium, Total	ug/L	MW-1S	04/19/2016	74.8000 *	70.6512
Barium, Total	ug/L	MW-1S	06/02/2016	73.3000 *	70.6512
Barium, Total	ug/L	MW-1S	08/10/2016	75.0000 *	70.6512
Barium, Total	ug/L	MW-1S	09/30/2016	83.4000 *	70.6512
Barium, Total	ug/L	MW-1S	12/02/2016	82.8000 *	70.6512
Barium, Total	ug/L	MW-1S	01/31/2017	88.1000 *	70.6512
Barium, Total	ug/L	MW-1S	05/26/2017	73.8000 *	70.6512
Barium, Total	ug/L	MW-1S	08/11/2017	72.1000 *	70.6512
Barium, Total	ug/L	MW-1S	05/23/2018	81.1000 *	70.6512
Barium, Total	ug/L	MW-1S	09/11/2018	73.8000 *	70.6512
Barium, Total	ug/L	MW-1S	05/08/2019	53.5000 *	70.6512
Barium, Total	ug/L	MW-1S	11/14/2019	99.2000 *	70.6512
Barium, Total	ug/L	MW-1S	05/05/2020	72.0000 *	70.6512
Barium, Total	ug/L	MW-1S	11/11/2020	97.9000 *	70.6512

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-1S	05/25/2021	69.9000	70.6512
Barium, Total	ug/L	MW-1S	11/09/2021	73.7000 *	70.6512
Barium, Total	ug/L	MW-1S	05/10/2022	79.7000 *	70.6512
Barium, Total	ug/L	MW-1S	11/22/2022	110.0000 *	70.6512
Barium, Total	ug/L	MW-1S	04/23/2023	62.8000	70.6512
Barium, Total	ug/L	MW-1S	10/11/2023	83.7000 *	70.6512
Barium, Total	ug/L	MW-1S	04/09/2024	65.0000	70.6512
Barium, Total	ug/L	MW-2S	04/19/2016	115.0000 *	70.6512
Barium, Total	ug/L	MW-2S	06/01/2016	117.0000 *	70.6512
Barium, Total	ug/L	MW-2S	08/11/2016	111.0000 *	70.6512
Barium, Total	ug/L	MW-2S	09/30/2016	124.0000 *	70.6512
Barium, Total	ug/L	MW-2S	12/02/2016	179.0000 *	70.6512
Barium, Total	ug/L	MW-2S	01/31/2017	137.0000 *	70.6512
Barium, Total	ug/L	MW-2S	05/26/2017	160.0000 *	70.6512
Barium, Total	ug/L	MW-2S	08/11/2017	189.0000 *	70.6512
Barium, Total	ug/L	MW-2S	05/22/2018	222.0000 *	70.6512
Barium, Total	ug/L	MW-2S	09/11/2018	186.0000 *	70.6512
Barium, Total	ug/L	MW-2S	05/09/2019	218.0000 *	70.6512
Barium, Total	ug/L	MW-2S	11/14/2019	122.0000 *	70.6512
Barium, Total	ug/L	MW-2S	05/08/2020	195.0000 *	70.6512
Barium, Total	ug/L	MW-2S	11/11/2020	110.0000 *	70.6512
Barium, Total	ug/L	MW-2S	05/11/2021	116.0000 *	70.6512
Barium, Total	ug/L	MW-2S	11/10/2021	143.0000 *	70.6512
Barium, Total	ug/L	MW-2S	05/11/2022	132.0000 *	70.6512
Barium, Total	ug/L	MW-2S	11/15/2022	97.4000 *	70.6512
Barium, Total	ug/L	MW-2S	04/18/2023	175.0000 *	70.6512
Barium, Total	ug/L	MW-2S	10/10/2023	107.0000 *	70.6512
Barium, Total	ug/L	MW-2S	04/05/2024	120.0000 *	70.6512
Barium, Total	ug/L	MW-3S	04/20/2016	92.6000 *	70.6512
Barium, Total	ug/L	MW-3S	06/01/2016	86.9000 *	70.6512
Barium, Total	ug/L	MW-3S	08/11/2016	106.0000 *	70.6512
Barium, Total	ug/L	MW-3S	09/30/2016	90.4000 *	70.6512
Barium, Total	ug/L	MW-3S	12/02/2016	101.0000 *	70.6512
Barium, Total	ug/L	MW-3S	01/31/2017	85.9000 *	70.6512
Barium, Total	ug/L	MW-3S	05/25/2017	80.0000 *	70.6512
Barium, Total	ug/L	MW-3S	08/11/2017	75.3000 *	70.6512
Barium, Total	ug/L	MW-3S	05/22/2018	73.9000 *	70.6512
Barium, Total	ug/L	MW-3S	09/11/2018	92.3000 *	70.6512

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
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Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-3S	05/09/2019	97.0000 *	70.6512
Barium, Total	ug/L	MW-3S	11/13/2019	76.5000 *	70.6512
Barium, Total	ug/L	MW-3S	05/05/2020	131.0000 *	70.6512
Barium, Total	ug/L	MW-3S	11/10/2020	80.0000 *	70.6512
Barium, Total	ug/L	MW-3S	05/12/2021	114.0000 *	70.6512
Barium, Total	ug/L	MW-3S	11/18/2021	94.3000 *	70.6512
Barium, Total	ug/L	MW-3S	05/11/2022	141.0000 *	70.6512
Barium, Total	ug/L	MW-3S	11/16/2022	81.2000 *	70.6512
Barium, Total	ug/L	MW-3S	04/18/2023	116.0000 *	70.6512
Barium, Total	ug/L	MW-3S	10/09/2023	98.8000 *	70.6512
Barium, Total	ug/L	MW-3S	04/05/2024	106.0000 *	70.6512
Barium, Total	ug/L	MW-6S	04/20/2016	190.0000 *	70.6512
Barium, Total	ug/L	MW-6S	06/01/2016	130.0000 *	70.6512
Barium, Total	ug/L	MW-6S	08/11/2016	133.0000 *	70.6512
Barium, Total	ug/L	MW-6S	09/29/2016	114.0000 *	70.6512
Barium, Total	ug/L	MW-6S	12/01/2016	108.0000 *	70.6512
Barium, Total	ug/L	MW-6S	01/30/2017	161.0000 *	70.6512
Barium, Total	ug/L	MW-6S	05/25/2017	147.0000 *	70.6512
Barium, Total	ug/L	MW-6S	08/10/2017	158.0000 *	70.6512
Barium, Total	ug/L	MW-6S	05/22/2018	115.0000 *	70.6512
Barium, Total	ug/L	MW-6S	09/11/2018	84.7000 *	70.6512
Barium, Total	ug/L	MW-6S	05/08/2019	67.4000 *	70.6512
Barium, Total	ug/L	MW-6S	11/13/2019	122.0000 *	70.6512
Barium, Total	ug/L	MW-6S	05/08/2020	110.0000 *	70.6512
Barium, Total	ug/L	MW-6S	11/19/2020	115.0000 *	70.6512
Barium, Total	ug/L	MW-6S	05/18/2021	89.7000 *	70.6512
Barium, Total	ug/L	MW-6S	11/09/2021	86.4000 *	70.6512
Barium, Total	ug/L	MW-6S	05/11/2022	92.5000 *	70.6512
Barium, Total	ug/L	MW-6S	05/01/2023	73.1000 *	70.6512
Barium, Total	ug/L	MW-6S	04/04/2024	99.6000 *	70.6512
Fluoride	mg/L	MW-10S	04/21/2016	0.3900 *	0.1000
Fluoride	mg/L	MW-10S	05/31/2016	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	08/11/2016	0.3700 *	0.1000
Fluoride	mg/L	MW-10S	09/29/2016	0.4100 *	0.1000
Fluoride	mg/L	MW-10S	11/30/2016	0.4100 *	0.1000
Fluoride	mg/L	MW-10S	01/30/2017	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	05/24/2017	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	08/09/2017	0.3600 *	0.1000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-10S	09/28/2017	0.3700 *	0.1000
Fluoride	mg/L	MW-10S	05/23/2018	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	09/11/2018	0.3600 *	0.1000
Fluoride	mg/L	MW-10S	05/07/2019	0.2400 *	0.1000
Fluoride	mg/L	MW-10S	05/07/2020	0.3000 *	0.1000
Fluoride	mg/L	MW-10S	11/11/2020	0.2300 *	0.1000
Fluoride	mg/L	MW-10S	05/21/2021	0.2200 *	0.1000
Fluoride	mg/L	MW-10S	11/12/2021	0.2000 *	0.1000
Fluoride	mg/L	MW-10S	05/18/2022	0.2300 *	0.1000
Fluoride	mg/L	MW-10S	05/04/2023	0.1900 *	0.1000
Fluoride	mg/L	MW-10S	04/17/2024	0.1300 *	0.1000
Fluoride	mg/L	MW-11S	04/20/2016	0.3200 *	0.1000
Fluoride	mg/L	MW-11S	06/02/2016	0.3400 *	0.1000
Fluoride	mg/L	MW-11S	08/12/2016	0.3500 *	0.1000
Fluoride	mg/L	MW-11S	09/30/2016	0.4000 *	0.1000
Fluoride	mg/L	MW-11S	12/01/2016	0.4400 *	0.1000
Fluoride	mg/L	MW-11S	01/31/2017	0.3100 *	0.1000
Fluoride	mg/L	MW-11S	05/25/2017	0.3300 *	0.1000
Fluoride	mg/L	MW-11S	08/10/2017	0.3300 *	0.1000
Fluoride	mg/L	MW-11S	09/28/2017	0.4000 *	0.1000
Fluoride	mg/L	MW-11S	05/23/2018	0.3000 *	0.1000
Fluoride	mg/L	MW-11S	09/11/2018	0.2900 *	0.1000
Fluoride	mg/L	MW-11S	05/08/2019	0.2300 *	0.1000
Fluoride	mg/L	MW-11S	05/07/2020	0.2200 *	0.1000
Fluoride	mg/L	MW-11S	11/12/2020	0.2000 *	0.1000
Fluoride	mg/L	MW-11S	05/17/2021	0.1600 *	0.1000
Fluoride	mg/L	MW-11S	11/17/2021	0.1500 *	0.1000
Fluoride	mg/L	MW-11S	05/12/2022	0.1700 *	0.1000
Fluoride	mg/L	MW-11S	11/21/2022	0.2000 *	0.1000
Fluoride	mg/L	MW-11S	05/02/2023	0.2100 *	0.1000
Fluoride	mg/L	MW-11S	04/09/2024	0.1800 *	0.1000
Fluoride	mg/L	MW-12S	04/20/2016	0.5800 *	0.1000
Fluoride	mg/L	MW-12S	06/01/2016	0.5700 *	0.1000
Fluoride	mg/L	MW-12S	08/11/2016	0.4700 *	0.1000
Fluoride	mg/L	MW-12S	09/29/2016	0.5100 *	0.1000
Fluoride	mg/L	MW-12S	12/01/2016	0.5200 *	0.1000
Fluoride	mg/L	MW-12S	01/30/2017	0.5200 *	0.1000
Fluoride	mg/L	MW-12S	05/25/2017	0.5400 *	0.1000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Fluoride	mg/L	MW-12S	08/10/2017		0.4000	*	0.1000
Fluoride	mg/L	MW-12S	09/27/2017		0.4400	*	0.1000
Fluoride	mg/L	MW-12S	05/23/2018		0.3300	*	0.1000
Fluoride	mg/L	MW-12S	09/12/2018		0.3200	*	0.1000
Fluoride	mg/L	MW-12S	05/08/2019		0.2800	*	0.1000
Fluoride	mg/L	MW-12S	05/08/2020		0.2100	*	0.1000
Fluoride	mg/L	MW-12S	11/12/2020		0.2800	*	0.1000
Fluoride	mg/L	MW-12S	05/13/2021		0.2800	*	0.1000
Fluoride	mg/L	MW-12S	11/10/2021		0.2200	*	0.1000
Fluoride	mg/L	MW-12S	05/12/2022		0.2300	*	0.1000
Fluoride	mg/L	MW-12S	11/15/2022		0.2400	*	0.1000
Fluoride	mg/L	MW-12S	04/27/2023		0.2400	*	0.1000
Fluoride	mg/L	MW-12S	10/11/2023		0.2000	*	0.1000
Fluoride	mg/L	MW-12S	04/05/2024		0.2700	*	0.1000
Fluoride	mg/L	MW-1S	04/19/2016		0.3300	*	0.1000
Fluoride	mg/L	MW-1S	06/02/2016		0.5200	*	0.1000
Fluoride	mg/L	MW-1S	08/10/2016		0.5500	*	0.1000
Fluoride	mg/L	MW-1S	09/30/2016		0.5100	*	0.1000
Fluoride	mg/L	MW-1S	12/02/2016		0.4900	*	0.1000
Fluoride	mg/L	MW-1S	01/31/2017		0.3000	*	0.1000
Fluoride	mg/L	MW-1S	05/26/2017		0.2900	*	0.1000
Fluoride	mg/L	MW-1S	08/11/2017		0.4700	*	0.1000
Fluoride	mg/L	MW-1S	09/28/2017		0.5300	*	0.1000
Fluoride	mg/L	MW-1S	05/23/2018		0.3400	*	0.1000
Fluoride	mg/L	MW-1S	09/11/2018		0.2500	*	0.1000
Fluoride	mg/L	MW-1S	05/08/2019		0.1300	*	0.1000
Fluoride	mg/L	MW-1S	11/14/2019		0.2900	*	0.1000
Fluoride	mg/L	MW-1S	05/05/2020		0.2600	*	0.1000
Fluoride	mg/L	MW-1S	11/11/2020		0.2400	*	0.1000
Fluoride	mg/L	MW-1S	05/25/2021	ND	0.1000	*	0.1000
Fluoride	mg/L	MW-1S	11/09/2021		0.1300	*	0.1000
Fluoride	mg/L	MW-1S	05/10/2022		0.1200	*	0.1000
Fluoride	mg/L	MW-1S	11/22/2022		0.2000	*	0.1000
Fluoride	mg/L	MW-1S	04/23/2023		0.1700	*	0.1000
Fluoride	mg/L	MW-1S	10/11/2023	ND	0.1000	*	0.1000
Fluoride	mg/L	MW-1S	04/09/2024		0.1100	*	0.1000
Fluoride	mg/L	MW-2S	04/19/2016		0.4200	*	0.1000
Fluoride	mg/L	MW-2S	06/01/2016		0.4000	*	0.1000

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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-2S	08/11/2016	0.3700 *	0.1000
Fluoride	mg/L	MW-2S	09/30/2016	0.3500 *	0.1000
Fluoride	mg/L	MW-2S	12/02/2016	0.3100 *	0.1000
Fluoride	mg/L	MW-2S	01/31/2017	0.3800 *	0.1000
Fluoride	mg/L	MW-2S	05/26/2017	0.3500 *	0.1000
Fluoride	mg/L	MW-2S	08/11/2017	0.3300 *	0.1000
Fluoride	mg/L	MW-2S	09/27/2017	0.2500 *	0.1000
Fluoride	mg/L	MW-2S	05/22/2018	0.2300 *	0.1000
Fluoride	mg/L	MW-2S	09/11/2018	0.1300 *	0.1000
Fluoride	mg/L	MW-2S	05/09/2019	0.1500 *	0.1000
Fluoride	mg/L	MW-2S	11/14/2019	0.1700 *	0.1000
Fluoride	mg/L	MW-2S	05/08/2020	0.1200 *	0.1000
Fluoride	mg/L	MW-2S	11/11/2020	0.1500 *	0.1000
Fluoride	mg/L	MW-2S	05/11/2021	0.1100 *	0.1000
Fluoride	mg/L	MW-2S	11/10/2021	0.1600 *	0.1000
Fluoride	mg/L	MW-2S	05/11/2022	0.1300 *	0.1000
Fluoride	mg/L	MW-2S	11/15/2022	0.1400 *	0.1000
Fluoride	mg/L	MW-2S	04/18/2023	0.1600 *	0.1000
Fluoride	mg/L	MW-2S	10/10/2023	0.1600 *	0.1000
Fluoride	mg/L	MW-2S	04/05/2024	0.2100 *	0.1000
Fluoride	mg/L	MW-3S	04/20/2016	0.2600 *	0.1000
Fluoride	mg/L	MW-3S	06/01/2016	0.2800 *	0.1000
Fluoride	mg/L	MW-3S	08/11/2016	0.2500 *	0.1000
Fluoride	mg/L	MW-3S	09/30/2016	0.2700 *	0.1000
Fluoride	mg/L	MW-3S	12/02/2016	0.3000 *	0.1000
Fluoride	mg/L	MW-3S	01/31/2017	0.2400 *	0.1000
Fluoride	mg/L	MW-3S	05/25/2017	0.2500 *	0.1000
Fluoride	mg/L	MW-3S	08/11/2017	0.3000 *	0.1000
Fluoride	mg/L	MW-3S	09/27/2017	0.3100 *	0.1000
Fluoride	mg/L	MW-3S	05/22/2018	0.2800 *	0.1000
Fluoride	mg/L	MW-3S	09/11/2018	0.2700 *	0.1000
Fluoride	mg/L	MW-3S	05/09/2019	0.2000 *	0.1000
Fluoride	mg/L	MW-3S	11/13/2019	0.3900 *	0.1000
Fluoride	mg/L	MW-3S	05/05/2020	0.3300 *	0.1000
Fluoride	mg/L	MW-3S	11/10/2020	0.3900 *	0.1000
Fluoride	mg/L	MW-3S	05/12/2021	0.3000 *	0.1000
Fluoride	mg/L	MW-3S	11/18/2021	0.2900 *	0.1000
Fluoride	mg/L	MW-3S	05/11/2022	0.2000 *	0.1000

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-3S	11/16/2022	0.3000 *	0.1000
Fluoride	mg/L	MW-3S	04/18/2023	0.2000 *	0.1000
Fluoride	mg/L	MW-3S	10/09/2023	0.2500 *	0.1000
Fluoride	mg/L	MW-3S	04/05/2024	0.3300 *	0.1000
Fluoride	mg/L	MW-6S	04/20/2016	0.2400 *	0.1000
Fluoride	mg/L	MW-6S	06/01/2016	0.2300 *	0.1000
Fluoride	mg/L	MW-6S	08/11/2016	0.2200 *	0.1000
Fluoride	mg/L	MW-6S	09/29/2016	0.2500 *	0.1000
Fluoride	mg/L	MW-6S	12/01/2016	0.2600 *	0.1000
Fluoride	mg/L	MW-6S	01/30/2017	0.2200 *	0.1000
Fluoride	mg/L	MW-6S	05/25/2017	0.2000 *	0.1000
Fluoride	mg/L	MW-6S	08/10/2017	0.2100 *	0.1000
Fluoride	mg/L	MW-6S	09/27/2017	0.2300 *	0.1000
Fluoride	mg/L	MW-6S	05/22/2018	0.1600 *	0.1000
Fluoride	mg/L	MW-6S	09/11/2018	0.2100 *	0.1000
Fluoride	mg/L	MW-6S	05/08/2019	0.1700 *	0.1000
Fluoride	mg/L	MW-6S	11/13/2019	0.2300 *	0.1000
Fluoride	mg/L	MW-6S	05/08/2020	0.1700 *	0.1000
Fluoride	mg/L	MW-6S	11/19/2020	0.2600 *	0.1000
Fluoride	mg/L	MW-6S	05/18/2021	0.1900 *	0.1000
Fluoride	mg/L	MW-6S	11/09/2021	0.2500 *	0.1000
Fluoride	mg/L	MW-6S	05/11/2022	0.2500 *	0.1000
Fluoride	mg/L	MW-6S	05/01/2023	0.2500 *	0.1000
Fluoride	mg/L	MW-6S	04/04/2024	0.1700 *	0.1000
Lithium, Total	ug/L	MW-10S	04/21/2016	124.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/31/2016	110.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	08/11/2016	100.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	09/29/2016	99.8000 *	20.0000
Lithium, Total	ug/L	MW-10S	11/30/2016	102.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	01/30/2017	102.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/24/2017	110.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	08/09/2017	102.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/23/2018	91.9000 *	20.0000
Lithium, Total	ug/L	MW-10S	09/11/2018	74.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/07/2019	98.8000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/07/2020	114.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	11/11/2020	96.2000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/21/2021	96.6000 *	20.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-10S	11/12/2021	93.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/18/2022	108.0000 *	20.0000
Lithium, Total	ug/L	MW-10S	05/04/2023	88.7000 *	20.0000
Lithium, Total	ug/L	MW-10S	04/17/2024	72.9000 *	20.0000
Lithium, Total	ug/L	MW-11S	04/20/2016	115.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	06/02/2016	119.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	08/12/2016	105.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	09/30/2016	104.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	12/01/2016	99.6000 *	20.0000
Lithium, Total	ug/L	MW-11S	01/31/2017	101.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/25/2017	103.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	08/10/2017	108.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/23/2018	102.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	09/11/2018	109.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/08/2019	111.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/07/2020	111.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	11/12/2020	136.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/17/2021	114.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	11/17/2021	122.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/12/2022	99.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	11/21/2022	142.0000 *	20.0000
Lithium, Total	ug/L	MW-11S	05/02/2023	51.4000 *	20.0000
Lithium, Total	ug/L	MW-11S	04/09/2024	43.1000 *	20.0000
Lithium, Total	ug/L	MW-12S	04/20/2016	94.5000 *	20.0000
Lithium, Total	ug/L	MW-12S	06/01/2016	91.7000 *	20.0000
Lithium, Total	ug/L	MW-12S	08/11/2016	82.1000 *	20.0000
Lithium, Total	ug/L	MW-12S	09/29/2016	83.5000 *	20.0000
Lithium, Total	ug/L	MW-12S	12/01/2016	94.9000 *	20.0000
Lithium, Total	ug/L	MW-12S	01/30/2017	80.6000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/25/2017	90.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	08/10/2017	91.1000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/23/2018	105.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	09/12/2018	86.2000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/08/2019	97.3000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/08/2020	117.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	11/12/2020	126.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	05/13/2021	113.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	11/10/2021	129.0000 *	20.0000

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-12S	05/12/2022	117.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	11/15/2022	138.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	04/27/2023	97.7000 *	20.0000
Lithium, Total	ug/L	MW-12S	10/11/2023	129.0000 *	20.0000
Lithium, Total	ug/L	MW-12S	04/05/2024	138.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	04/19/2016	100.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	06/02/2016	110.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	08/10/2016	107.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	09/30/2016	92.2000 *	20.0000
Lithium, Total	ug/L	MW-1S	12/02/2016	93.8000 *	20.0000
Lithium, Total	ug/L	MW-1S	01/31/2017	98.9000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/26/2017	104.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	08/11/2017	111.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/23/2018	128.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	09/11/2018	90.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/08/2019	83.4000 *	20.0000
Lithium, Total	ug/L	MW-1S	11/14/2019	115.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/05/2020	124.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	11/11/2020	114.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/25/2021	70.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	11/09/2021	99.8000 *	20.0000
Lithium, Total	ug/L	MW-1S	05/10/2022	102.0000 *	20.0000
Lithium, Total	ug/L	MW-1S	11/22/2022	83.8000 *	20.0000
Lithium, Total	ug/L	MW-1S	04/23/2023	64.5000 *	20.0000
Lithium, Total	ug/L	MW-1S	10/11/2023	77.8000 *	20.0000
Lithium, Total	ug/L	MW-1S	04/09/2024	53.3000 *	20.0000
Lithium, Total	ug/L	MW-2S	04/19/2016	86.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	06/01/2016	79.6000 *	20.0000
Lithium, Total	ug/L	MW-2S	08/11/2016	79.2000 *	20.0000
Lithium, Total	ug/L	MW-2S	09/30/2016	88.8000 *	20.0000
Lithium, Total	ug/L	MW-2S	12/02/2016	105.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	01/31/2017	91.6000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/26/2017	101.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	08/11/2017	100.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/22/2018	107.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	09/11/2018	78.7000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/09/2019	102.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	11/14/2019	91.9000 *	20.0000

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-2S	05/08/2020	92.6000 *	20.0000
Lithium, Total	ug/L	MW-2S	11/11/2020	74.8000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/11/2021	42.3000 *	20.0000
Lithium, Total	ug/L	MW-2S	11/10/2021	63.2000 *	20.0000
Lithium, Total	ug/L	MW-2S	05/11/2022	52.0000 *	20.0000
Lithium, Total	ug/L	MW-2S	11/15/2022	49.2000 *	20.0000
Lithium, Total	ug/L	MW-2S	04/18/2023	38.8000 *	20.0000
Lithium, Total	ug/L	MW-2S	10/10/2023	35.7000 *	20.0000
Lithium, Total	ug/L	MW-2S	04/05/2024	34.4000 *	20.0000
Lithium, Total	ug/L	MW-6S	04/20/2016	75.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	06/01/2016	70.9000 *	20.0000
Lithium, Total	ug/L	MW-6S	08/11/2016	73.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	09/29/2016	76.4000 *	20.0000
Lithium, Total	ug/L	MW-6S	12/01/2016	82.1000 *	20.0000
Lithium, Total	ug/L	MW-6S	01/30/2017	79.3000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/25/2017	68.7000 *	20.0000
Lithium, Total	ug/L	MW-6S	08/10/2017	53.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/22/2018	68.8000 *	20.0000
Lithium, Total	ug/L	MW-6S	09/11/2018	69.4000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/08/2019	21.5000 *	20.0000
Lithium, Total	ug/L	MW-6S	11/13/2019	77.2000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/08/2020	79.4000 *	20.0000
Lithium, Total	ug/L	MW-6S	11/19/2020	91.2000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/18/2021	99.5000 *	20.0000
Lithium, Total	ug/L	MW-6S	11/09/2021	91.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/11/2022	68.6000 *	20.0000
Lithium, Total	ug/L	MW-6S	05/01/2023	52.2000 *	20.0000
Lithium, Total	ug/L	MW-6S	04/04/2024	107.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	04/20/2016	126.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	06/01/2016	162.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	08/11/2016	170.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	09/29/2016	164.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	12/01/2016	166.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	01/30/2017	148.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	05/25/2017	149.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	08/10/2017	153.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	05/23/2018	136.0000 *	20.0000
Lithium, Total	ug/L	MW-7S	09/11/2018	103.0000 *	20.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-7S	05/07/2019	30.7000 *	20.0000
Lithium, Total	ug/L	MW-7S	05/07/2020	31.2000 *	20.0000
Lithium, Total	ug/L	MW-7S	11/11/2020	25.6000 *	20.0000
Lithium, Total	ug/L	MW-7S	05/17/2021	31.1000 *	20.0000
Lithium, Total	ug/L	MW-7S	11/18/2021	31.8000 *	20.0000
Lithium, Total	ug/L	MW-7S	05/12/2022	31.6000 *	20.0000
Lithium, Total	ug/L	MW-7S	11/16/2022	30.9000 *	20.0000
Lithium, Total	ug/L	MW-7S	05/03/2023	37.6000 *	20.0000
Lithium, Total	ug/L	MW-7S	10/09/2023	54.4000 *	20.0000
Lithium, Total	ug/L	MW-7S	04/10/2024	87.6000 *	20.0000
Molybdenum, Total	ug/L	MW-10S	04/21/2016	155.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	05/31/2016	174.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	08/11/2016	204.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	09/29/2016	223.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	11/30/2016	202.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	01/30/2017	198.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	05/24/2017	188.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	08/09/2017	182.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	05/23/2018	168.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	09/11/2018	185.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	05/07/2019	86.2000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	05/07/2020	98.6000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	11/11/2020	90.0000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	05/21/2021	91.8000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	11/12/2021	77.6000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	05/18/2022	60.3000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	05/04/2023	55.3000 *	10.0000
Molybdenum, Total	ug/L	MW-10S	04/17/2024	45.2000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	04/20/2016	181.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	06/02/2016	218.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	08/12/2016	256.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	09/30/2016	266.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	12/01/2016	334.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	01/31/2017	224.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	05/25/2017	248.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	08/10/2017	268.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	05/23/2018	269.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11S	09/11/2018	242.0000 *	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	ug/L	MW-11S	05/08/2019		147.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/07/2020		118.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	11/12/2020		74.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/17/2021		69.3000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	11/17/2021		75.2000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/12/2022		75.5000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	11/21/2022		56.4000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	05/02/2023		56.0000	*	10.0000
Molybdenum, Total	ug/L	MW-11S	04/09/2024		72.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	04/20/2016		118.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	06/01/2016		138.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	08/11/2016		136.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	09/29/2016		123.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	12/01/2016		154.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	01/30/2017		98.5000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/25/2017		104.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	08/10/2017		83.2000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/23/2018		51.5000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	09/12/2018		77.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/08/2019		42.4000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/08/2020		50.4000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	11/12/2020		63.8000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/13/2021		69.5000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	11/10/2021		33.8000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	05/12/2022		21.9000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	11/15/2022		36.4000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	04/27/2023		35.9000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	10/11/2023		15.0000	*	10.0000
Molybdenum, Total	ug/L	MW-12S	04/05/2024		28.6000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	04/19/2016		32.6000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	06/02/2016		71.7000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	08/10/2016		91.3000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	09/30/2016		71.5000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	12/02/2016		68.1000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	01/31/2017		41.0000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	05/26/2017		36.1000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	08/11/2017		67.9000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	05/23/2018		57.4000	*	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	ug/L	MW-1S	09/11/2018		33.1000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	05/08/2019		15.1000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	11/14/2019		55.4000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	05/05/2020		39.1000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	11/11/2020		55.1000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	05/25/2021		19.1000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	11/09/2021		24.4000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	05/10/2022		24.8000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	11/22/2022		30.7000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	04/23/2023		13.5000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	10/11/2023		32.5000	*	10.0000
Molybdenum, Total	ug/L	MW-1S	04/09/2024		13.4000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	04/19/2016		69.2000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	06/01/2016		72.2000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	08/11/2016		62.0000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	09/30/2016		48.5000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	12/02/2016		21.7000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	01/31/2017		60.2000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	05/26/2017		58.5000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	08/11/2017		59.1000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	05/22/2018		19.3000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	09/11/2018		15.8000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	05/09/2019		10.3000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	11/14/2019		11.8000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	05/08/2020	ND	10.0000		10.0000
Molybdenum, Total	ug/L	MW-2S	11/11/2020	ND	10.0000		10.0000
Molybdenum, Total	ug/L	MW-2S	05/11/2021		13.9000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	11/10/2021		10.9000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	05/11/2022		13.4000	*	10.0000
Molybdenum, Total	ug/L	MW-2S	11/15/2022	ND	10.0000		10.0000
Molybdenum, Total	ug/L	MW-2S	04/18/2023	ND	10.0000		10.0000
Molybdenum, Total	ug/L	MW-2S	10/10/2023	ND	10.0000		10.0000
Molybdenum, Total	ug/L	MW-2S	04/05/2024		13.9000	*	10.0000
Molybdenum, Total	ug/L	MW-3S	04/20/2016		54.5000	*	10.0000
Molybdenum, Total	ug/L	MW-3S	06/01/2016		68.6000	*	10.0000
Molybdenum, Total	ug/L	MW-3S	08/11/2016		48.7000	*	10.0000
Molybdenum, Total	ug/L	MW-3S	09/30/2016		41.3000	*	10.0000
Molybdenum, Total	ug/L	MW-3S	12/02/2016		39.0000	*	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-3S	01/31/2017	45.6000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/25/2017	43.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	08/11/2017	49.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/22/2018	39.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	09/11/2018	38.4000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/09/2019	38.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	11/13/2019	64.2000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/05/2020	61.7000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	11/10/2020	77.4000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/12/2021	56.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	11/18/2021	47.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	05/11/2022	52.6000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	11/16/2022	53.4000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	04/18/2023	21.1000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	10/09/2023	43.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3S	04/05/2024	44.3000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	04/20/2016	93.6000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	06/01/2016	101.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	08/11/2016	116.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	09/29/2016	119.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	12/01/2016	127.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	01/30/2017	104.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	05/25/2017	77.9000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	08/10/2017	85.9000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	05/22/2018	80.1000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	09/11/2018	143.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	05/08/2019	39.6000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	11/13/2019	144.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	05/08/2020	90.7000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	11/19/2020	164.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	05/18/2021	138.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	11/09/2021	161.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	05/11/2022	81.4000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	05/01/2023	83.8000 *	10.0000
Molybdenum, Total	ug/L	MW-6S	04/04/2024	91.8000 *	10.0000
Molybdenum, Total	ug/L	MW-7S	04/20/2016	130.0000 *	10.0000
Molybdenum, Total	ug/L	MW-7S	06/01/2016	195.0000 *	10.0000
Molybdenum, Total	ug/L	MW-7S	08/11/2016	202.0000 *	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Molybdenum, Total	ug/L	MW-7S	09/29/2016		189.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	12/01/2016		194.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	01/30/2017		183.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/25/2017		187.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	08/10/2017		192.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/23/2018		195.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	09/11/2018		121.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/07/2019		39.2000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/07/2020		42.2000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	11/11/2020		45.6000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/17/2021		39.9000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	11/18/2021		72.9000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/12/2022		45.6000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	11/16/2022		42.8000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	05/03/2023		27.8000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	10/09/2023		28.0000	*	10.0000
Molybdenum, Total	ug/L	MW-7S	04/10/2024		23.4000	*	10.0000
Selenium, Total	ug/L	MW-10S	04/21/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	05/31/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	08/11/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	09/29/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	11/30/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	01/30/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	05/24/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	08/09/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-10S	05/23/2018		2.8000	*	1.0000
Selenium, Total	ug/L	MW-10S	09/11/2018	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-10S	05/07/2019		1.3000	*	1.0000
Selenium, Total	ug/L	MW-10S	05/07/2020		12.5000	*	1.0000
Selenium, Total	ug/L	MW-10S	11/11/2020		1.8000	*	1.0000
Selenium, Total	ug/L	MW-10S	05/21/2021		1.1000	*	1.0000
Selenium, Total	ug/L	MW-10S	11/12/2021		1.8000	*	1.0000
Selenium, Total	ug/L	MW-10S	05/18/2022		2.1000	*	1.0000
Selenium, Total	ug/L	MW-10S	05/04/2023		2.2000	*	1.0000
Selenium, Total	ug/L	MW-10S	04/17/2024		36.3000	*	1.0000
Selenium, Total	ug/L	MW-11S	04/20/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	06/02/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	08/12/2016	ND	10.0000		1.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
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Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	ug/L	MW-11S	09/30/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	12/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	01/31/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	05/25/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	08/10/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-11S	05/23/2018		6.0000	*	1.0000
Selenium, Total	ug/L	MW-11S	09/11/2018		9.3000	*	1.0000
Selenium, Total	ug/L	MW-11S	05/08/2019		8.9000	*	1.0000
Selenium, Total	ug/L	MW-11S	05/07/2020		11.8000	*	1.0000
Selenium, Total	ug/L	MW-11S	11/12/2020		2.6000	*	1.0000
Selenium, Total	ug/L	MW-11S	05/17/2021		11.1000	*	1.0000
Selenium, Total	ug/L	MW-11S	11/17/2021		8.6000	*	1.0000
Selenium, Total	ug/L	MW-11S	05/12/2022		10.4000	*	1.0000
Selenium, Total	ug/L	MW-11S	11/21/2022		13.9000	*	1.0000
Selenium, Total	ug/L	MW-11S	05/02/2023		11.3000	*	1.0000
Selenium, Total	ug/L	MW-11S	04/09/2024		10.6000	*	1.0000
Selenium, Total	ug/L	MW-12S	04/20/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	06/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	08/11/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	09/29/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	12/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	01/30/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	05/25/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	08/10/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-12S	05/23/2018	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-12S	09/12/2018		2.0000	*	1.0000
Selenium, Total	ug/L	MW-12S	05/08/2019		30.3000	*	1.0000
Selenium, Total	ug/L	MW-12S	05/08/2020		41.6000	*	1.0000
Selenium, Total	ug/L	MW-12S	11/12/2020		16.7000	*	1.0000
Selenium, Total	ug/L	MW-12S	05/13/2021		12.4000	*	1.0000
Selenium, Total	ug/L	MW-12S	11/10/2021		15.3000	*	1.0000
Selenium, Total	ug/L	MW-12S	05/12/2022		16.2000	*	1.0000
Selenium, Total	ug/L	MW-12S	11/15/2022		32.4000	*	1.0000
Selenium, Total	ug/L	MW-12S	04/27/2023		8.3000	*	1.0000
Selenium, Total	ug/L	MW-12S	10/11/2023		23.7000	*	1.0000
Selenium, Total	ug/L	MW-12S	04/05/2024		21.2000	*	1.0000
Selenium, Total	ug/L	MW-1S	04/19/2016		16.8000	*	1.0000
Selenium, Total	ug/L	MW-1S	06/02/2016	ND	10.0000		1.0000

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
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Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	ug/L	MW-1S	08/10/2016		14.0000	*	1.0000
Selenium, Total	ug/L	MW-1S	09/30/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-1S	12/02/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-1S	01/31/2017		16.2000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/26/2017		15.7000	*	1.0000
Selenium, Total	ug/L	MW-1S	08/11/2017		11.2000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/23/2018		23.5000	*	1.0000
Selenium, Total	ug/L	MW-1S	09/11/2018		10.7000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/08/2019		21.0000	*	1.0000
Selenium, Total	ug/L	MW-1S	11/14/2019		6.9000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/05/2020		9.6000	*	1.0000
Selenium, Total	ug/L	MW-1S	11/11/2020		6.6000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/25/2021		24.4000	*	1.0000
Selenium, Total	ug/L	MW-1S	11/09/2021		21.7000	*	1.0000
Selenium, Total	ug/L	MW-1S	05/10/2022		19.8000	*	1.0000
Selenium, Total	ug/L	MW-1S	11/22/2022		28.0000	*	1.0000
Selenium, Total	ug/L	MW-1S	04/23/2023		28.2000	*	1.0000
Selenium, Total	ug/L	MW-1S	10/11/2023		16.0000	*	1.0000
Selenium, Total	ug/L	MW-1S	04/09/2024		17.9000	*	1.0000
Selenium, Total	ug/L	MW-2S	04/19/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	06/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	08/11/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	09/30/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	12/02/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	01/31/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	05/26/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	08/11/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-2S	05/22/2018		2.4000	*	1.0000
Selenium, Total	ug/L	MW-2S	09/11/2018		2.5000	*	1.0000
Selenium, Total	ug/L	MW-2S	05/09/2019		21.9000	*	1.0000
Selenium, Total	ug/L	MW-2S	11/14/2019		11.4000	*	1.0000
Selenium, Total	ug/L	MW-2S	05/08/2020		97.6000	*	1.0000
Selenium, Total	ug/L	MW-2S	11/11/2020		9.6000	*	1.0000
Selenium, Total	ug/L	MW-2S	05/11/2021		5.5000	*	1.0000
Selenium, Total	ug/L	MW-2S	11/10/2021		28.7000	*	1.0000
Selenium, Total	ug/L	MW-2S	05/11/2022		23.7000	*	1.0000
Selenium, Total	ug/L	MW-2S	11/15/2022		7.7000	*	1.0000
Selenium, Total	ug/L	MW-2S	04/18/2023		25.7000	*	1.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	ug/L	MW-2S	10/10/2023		4.5000	*	1.0000
Selenium, Total	ug/L	MW-2S	04/05/2024		3.1000	*	1.0000
Selenium, Total	ug/L	MW-6S	04/20/2016		15.5000	*	1.0000
Selenium, Total	ug/L	MW-6S	06/01/2016		12.4000	*	1.0000
Selenium, Total	ug/L	MW-6S	08/11/2016		11.0000	*	1.0000
Selenium, Total	ug/L	MW-6S	09/29/2016		12.0000	*	1.0000
Selenium, Total	ug/L	MW-6S	12/01/2016		12.9000	*	1.0000
Selenium, Total	ug/L	MW-6S	01/30/2017		14.0000	*	1.0000
Selenium, Total	ug/L	MW-6S	05/25/2017		12.3000	*	1.0000
Selenium, Total	ug/L	MW-6S	08/10/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-6S	05/22/2018		11.8000	*	1.0000
Selenium, Total	ug/L	MW-6S	09/11/2018		1.2000	*	1.0000
Selenium, Total	ug/L	MW-6S	05/08/2019		6.5000	*	1.0000
Selenium, Total	ug/L	MW-6S	11/13/2019		6.9000	*	1.0000
Selenium, Total	ug/L	MW-6S	05/08/2020		14.8000	*	1.0000
Selenium, Total	ug/L	MW-6S	11/19/2020		9.7000	*	1.0000
Selenium, Total	ug/L	MW-6S	05/18/2021		14.2000	*	1.0000
Selenium, Total	ug/L	MW-6S	11/09/2021		2.2000	*	1.0000
Selenium, Total	ug/L	MW-6S	05/11/2022		16.8000	*	1.0000
Selenium, Total	ug/L	MW-6S	05/01/2023		36.4000	*	1.0000
Selenium, Total	ug/L	MW-6S	04/04/2024		29.3000	*	1.0000
Selenium, Total	ug/L	MW-7S	04/20/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	06/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	08/11/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	09/29/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	12/01/2016	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	01/30/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	05/25/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	08/10/2017	ND	10.0000		1.0000
Selenium, Total	ug/L	MW-7S	05/23/2018		6.0000	*	1.0000
Selenium, Total	ug/L	MW-7S	09/11/2018		12.0000	*	1.0000
Selenium, Total	ug/L	MW-7S	05/07/2019		6.0000	*	1.0000
Selenium, Total	ug/L	MW-7S	05/07/2020		19.2000	*	1.0000
Selenium, Total	ug/L	MW-7S	11/11/2020		12.0000	*	1.0000
Selenium, Total	ug/L	MW-7S	05/17/2021		22.7000	*	1.0000
Selenium, Total	ug/L	MW-7S	11/18/2021		40.6000	*	1.0000
Selenium, Total	ug/L	MW-7S	05/12/2022		25.8000	*	1.0000
Selenium, Total	ug/L	MW-7S	11/16/2022		17.7000	*	1.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, Total	ug/L	MW-7S	05/03/2023		22.5000	*	1.0000
Selenium, Total	ug/L	MW-7S	10/09/2023		26.8000	*	1.0000
Selenium, Total	ug/L	MW-7S	04/10/2024		20.8000	*	1.0000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program

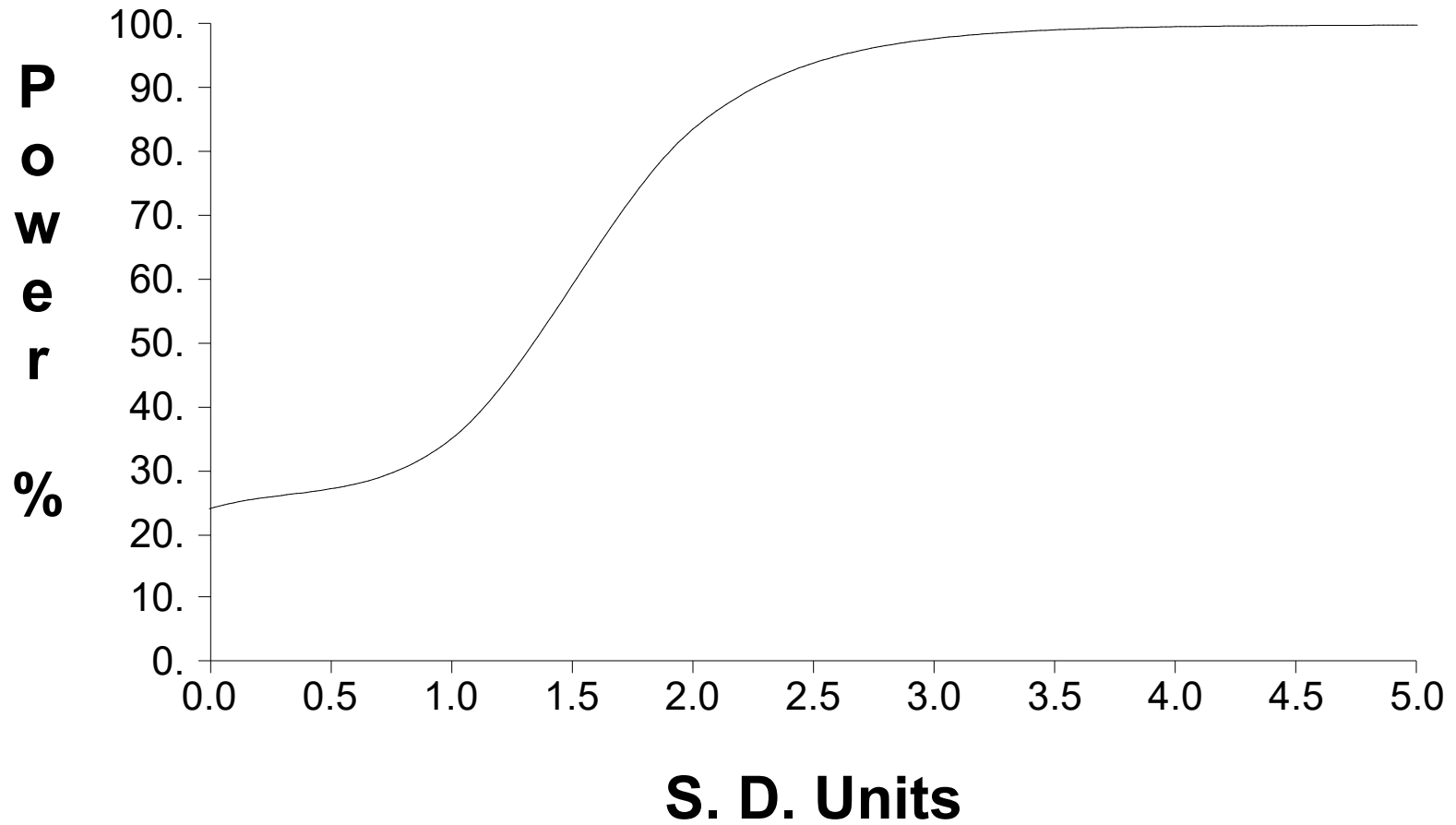


Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, Total	ug/L	MW-13I	08/08/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13I	09/24/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13I	05/07/2020	ND	6.0000	1.0000	**
Antimony, Total	ug/L	MW-13I	11/12/2020	ND	1.0000		
Antimony, Total	ug/L	MW-13I	02/25/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	03/29/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	05/20/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	06/22/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	07/27/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	11/16/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13I	05/19/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13I	11/18/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13I	04/18/2023	ND	1.0000		
Antimony, Total	ug/L	MW-13I	10/11/2023	ND	1.0000		
Antimony, Total	ug/L	MW-13I	04/10/2024	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	08/08/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	09/24/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	05/07/2020	ND	10.0000	1.0000	**
Arsenic, Total	ug/L	MW-13I	11/12/2020		2.0000		
Arsenic, Total	ug/L	MW-13I	02/25/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	03/29/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	05/20/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	06/22/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	07/27/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	11/16/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	05/19/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	11/18/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	04/18/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	10/11/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13I	04/10/2024	ND	1.0000		
Barium, Total	ug/L	MW-13I	08/08/2019		36.0000		
Barium, Total	ug/L	MW-13I	09/24/2019		35.6000		
Barium, Total	ug/L	MW-13I	05/07/2020		38.1000		
Barium, Total	ug/L	MW-13I	11/12/2020		38.0000		
Barium, Total	ug/L	MW-13I	02/25/2021		42.2000		
Barium, Total	ug/L	MW-13I	03/29/2021		46.0000		
Barium, Total	ug/L	MW-13I	05/20/2021		42.4000		
Barium, Total	ug/L	MW-13I	06/22/2021		41.3000		
Barium, Total	ug/L	MW-13I	07/27/2021		43.6000		
Barium, Total	ug/L	MW-13I	11/16/2021		37.9000		
Barium, Total	ug/L	MW-13I	05/19/2022		44.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium, Total	ug/L	MW-13I	11/18/2022		42.2000		
Barium, Total	ug/L	MW-13I	04/18/2023		37.8000		
Barium, Total	ug/L	MW-13I	10/11/2023		35.4000		
Barium, Total	ug/L	MW-13I	04/10/2024		34.4000		
Beryllium, Total	ug/L	MW-13I	08/08/2019	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	09/24/2019	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	05/07/2020	ND	4.0000	0.2000	**
Beryllium, Total	ug/L	MW-13I	11/12/2020	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	02/25/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	03/29/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	05/20/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	06/22/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	07/27/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	05/19/2022	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	04/18/2023	ND	0.2000		
Beryllium, Total	ug/L	MW-13I	04/10/2024	ND	0.2000		
Cadmium, Total	ug/L	MW-13I	08/08/2019	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	09/24/2019	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	05/07/2020	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	11/12/2020	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	02/25/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	03/29/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	05/20/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	06/22/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	07/27/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	05/19/2022	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	04/18/2023	ND	2.0000		
Cadmium, Total	ug/L	MW-13I	04/10/2024	ND	2.0000		
Chromium, Total	ug/L	MW-13I	08/08/2019	ND	10.0000		
Chromium, Total	ug/L	MW-13I	09/24/2019	ND	10.0000		
Chromium, Total	ug/L	MW-13I	05/07/2020	ND	10.0000		
Chromium, Total	ug/L	MW-13I	11/12/2020	ND	10.0000		
Chromium, Total	ug/L	MW-13I	02/25/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13I	03/29/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13I	05/20/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13I	06/22/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13I	07/27/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13I	05/19/2022	ND	10.0000		
Chromium, Total	ug/L	MW-13I	04/18/2023	ND	10.0000		
Chromium, Total	ug/L	MW-13I	04/10/2024	ND	10.0000		
Cobalt, Total	ug/L	MW-13I	08/08/2019	ND	1.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt, Total	ug/L	MW-13i	09/24/2019	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	05/07/2020	ND	10.0000	1.0000	**
Cobalt, Total	ug/L	MW-13i	11/12/2020		1.0000		
Cobalt, Total	ug/L	MW-13i	02/25/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	03/29/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	05/20/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	06/22/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	07/27/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	11/16/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	05/19/2022	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	04/18/2023	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	10/11/2023	ND	1.0000		
Cobalt, Total	ug/L	MW-13i	04/10/2024	ND	1.0000		
Fluoride	mg/L	MW-13i	08/08/2019	ND	0.1000		
Fluoride	mg/L	MW-13i	09/24/2019	ND	0.1000		
Fluoride	mg/L	MW-13i	05/07/2020	ND	0.1000		
Fluoride	mg/L	MW-13i	11/12/2020	ND	0.1000		
Fluoride	mg/L	MW-13i	02/25/2021	ND	0.1000		
Fluoride	mg/L	MW-13i	03/29/2021	ND	0.1000		
Fluoride	mg/L	MW-13i	05/20/2021	ND	0.1000		
Fluoride	mg/L	MW-13i	06/22/2021	ND	0.1000		
Fluoride	mg/L	MW-13i	07/27/2021	ND	0.1000		
Fluoride	mg/L	MW-13i	11/16/2021	ND	0.1000		
Fluoride	mg/L	MW-13i	05/19/2022	ND	0.1000		
Fluoride	mg/L	MW-13i	11/18/2022	ND	0.1000		
Fluoride	mg/L	MW-13i	04/18/2023	ND	0.1000		
Fluoride	mg/L	MW-13i	10/11/2023	ND	0.1000		
Fluoride	mg/L	MW-13i	04/10/2024	ND	0.1000		
Lead, Total	ug/L	MW-13i	08/08/2019	ND	10.0000		
Lead, Total	ug/L	MW-13i	09/24/2019	ND	10.0000		
Lead, Total	ug/L	MW-13i	05/07/2020	ND	10.0000		
Lead, Total	ug/L	MW-13i	11/12/2020	ND	10.0000		
Lead, Total	ug/L	MW-13i	02/25/2021	ND	10.0000		
Lead, Total	ug/L	MW-13i	03/29/2021	ND	10.0000		
Lead, Total	ug/L	MW-13i	05/20/2021	ND	10.0000		
Lead, Total	ug/L	MW-13i	06/22/2021	ND	10.0000		
Lead, Total	ug/L	MW-13i	07/27/2021	ND	10.0000		
Lead, Total	ug/L	MW-13i	05/19/2022	ND	10.0000		
Lead, Total	ug/L	MW-13i	04/18/2023	ND	10.0000		
Lead, Total	ug/L	MW-13i	04/10/2024	ND	10.0000		
Lithium, Total	ug/L	MW-13i	08/08/2019	ND	20.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lithium, Total	ug/L	MW-13I	09/24/2019	ND	20.0000		
Lithium, Total	ug/L	MW-13I	05/07/2020	ND	20.0000		
Lithium, Total	ug/L	MW-13I	11/12/2020	ND	20.0000		
Lithium, Total	ug/L	MW-13I	02/25/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13I	03/29/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13I	05/20/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13I	06/22/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13I	07/27/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13I	11/16/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13I	05/19/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13I	11/18/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13I	04/18/2023	ND	20.0000		
Lithium, Total	ug/L	MW-13I	10/11/2023	ND	20.0000		
Lithium, Total	ug/L	MW-13I	04/10/2024	ND	20.0000		
Mercury	ug/L	MW-13I	08/08/2019	ND	2.0000		
Mercury	ug/L	MW-13I	09/24/2019	ND	2.0000		
Mercury	ug/L	MW-13I	11/12/2020	ND	2.0000		
Mercury	ug/L	MW-13I	02/25/2021	ND	2.0000		
Mercury	ug/L	MW-13I	03/29/2021	ND	2.0000		
Mercury	ug/L	MW-13I	05/20/2021	ND	2.0000		
Mercury	ug/L	MW-13I	06/22/2021	ND	2.0000		
Mercury	ug/L	MW-13I	07/27/2021	ND	2.0000		
Mercury	ug/L	MW-13I	05/19/2022	ND	0.2000	2.0000	**
Mercury	ug/L	MW-13I	04/18/2023	ND	0.2000	2.0000	**
Mercury	ug/L	MW-13I	04/10/2024	ND	0.2000	2.0000	**
Molybdenum, Total	ug/L	MW-13I	08/08/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	09/24/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	05/07/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	11/12/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	02/25/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	03/29/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	05/20/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	06/22/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	07/27/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	11/16/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	05/19/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	11/18/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	04/18/2023	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	10/11/2023	ND	10.0000		
Molybdenum, Total	ug/L	MW-13I	04/10/2024	ND	10.0000		
Selenium, Total	ug/L	MW-13I	08/08/2019	ND	1.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, Total	ug/L	MW-13I	09/24/2019	ND	1.0000		
Selenium, Total	ug/L	MW-13I	05/07/2020	ND	10.0000	1.0000	**
Selenium, Total	ug/L	MW-13I	11/12/2020	ND	1.0000		
Selenium, Total	ug/L	MW-13I	02/25/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	03/29/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	05/20/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	06/22/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	07/27/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	11/16/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13I	05/19/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13I	11/18/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13I	04/18/2023	ND	1.0000		
Selenium, Total	ug/L	MW-13I	10/11/2023	ND	1.0000		
Selenium, Total	ug/L	MW-13I	04/10/2024	ND	1.0000		
Thallium, Total	ug/L	MW-13I	08/08/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13I	09/24/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13I	05/07/2020	ND	10.0000	1.0000	**
Thallium, Total	ug/L	MW-13I	11/12/2020	ND	1.0000		
Thallium, Total	ug/L	MW-13I	02/25/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	03/29/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	05/20/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	06/22/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	07/27/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13I	05/19/2022	ND	1.0000		
Thallium, Total	ug/L	MW-13I	04/18/2023	ND	1.0000		
Thallium, Total	ug/L	MW-13I	04/10/2024	ND	1.0000		
Total Radium	pCi/L	MW-13I	08/08/2019		0.8760		
Total Radium	pCi/L	MW-13I	09/24/2019		1.1500		
Total Radium	pCi/L	MW-13I	11/12/2020		0.7030		
Total Radium	pCi/L	MW-13I	02/25/2021		1.0800		
Total Radium	pCi/L	MW-13I	03/29/2021	ND	1.4900	1.8800	**
Total Radium	pCi/L	MW-13I	05/20/2021	ND	2.0100	1.8800	**
Total Radium	pCi/L	MW-13I	06/22/2021		0.8170		
Total Radium	pCi/L	MW-13I	07/27/2021	ND	1.3500	1.8800	**
Total Radium	pCi/L	MW-13I	11/16/2021		0.5810		
Total Radium	pCi/L	MW-13I	05/19/2022		1.2800		
Total Radium	pCi/L	MW-13I	11/18/2022		1.0300		
Total Radium	pCi/L	MW-13I	04/18/2023	ND	1.8800		
Total Radium	pCi/L	MW-13I	10/11/2023		0.7400		
Total Radium	pCi/L	MW-13I	04/10/2024	ND	3.0400	1.8800	**

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-11I	04/09/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-1I	04/09/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-2I	04/05/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-3I	04/04/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6I	04/04/2024	ND	1.0000		1.0000
Arsenic, Total	ug/L	MW-11I	04/09/2024	ND	1.0000		2.0000
Arsenic, Total	ug/L	MW-1I	04/09/2024	ND	1.0000		2.0000
Arsenic, Total	ug/L	MW-2I	04/05/2024	ND	1.0000		2.0000
Arsenic, Total	ug/L	MW-3I	04/04/2024	ND	1.0000		2.0000
Arsenic, Total	ug/L	MW-6I	04/04/2024	ND	1.0000		2.0000
Barium, Total	ug/L	MW-11I	04/09/2024		57.0000	***	49.5061
Barium, Total	ug/L	MW-1I	04/09/2024		41.9000	**	49.5061
Barium, Total	ug/L	MW-2I	04/05/2024		70.1000	***	49.5061
Barium, Total	ug/L	MW-3I	04/04/2024		71.4000	***	49.5061
Barium, Total	ug/L	MW-6I	04/04/2024		78.7000	***	49.5061
Beryllium, Total	ug/L	MW-11I	04/09/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-1I	04/09/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-2I	04/05/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-3I	04/04/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-6I	04/04/2024	ND	0.2000		0.2000
Cadmium, Total	ug/L	MW-11I	04/09/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-1I	04/09/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-2I	04/05/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-3I	04/04/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-6I	04/04/2024	ND	2.0000		2.0000
Chromium, Total	ug/L	MW-11I	04/09/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-1I	04/09/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-2I	04/05/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-3I	04/04/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-6I	04/04/2024	ND	10.0000		10.0000
Cobalt, Total	ug/L	MW-11I	04/09/2024	ND	1.0000		1.0000
Cobalt, Total	ug/L	MW-1I	04/09/2024	ND	1.0000		1.0000
Cobalt, Total	ug/L	MW-2I	04/05/2024	ND	1.0000		1.0000
Cobalt, Total	ug/L	MW-3I	04/04/2024	ND	1.0000		1.0000
Cobalt, Total	ug/L	MW-6I	04/04/2024	ND	1.0000		1.0000
Fluoride	mg/L	MW-11I	04/09/2024		0.4600	***	0.1000
Fluoride	mg/L	MW-1I	04/09/2024		0.3500	***	0.1000
Fluoride	mg/L	MW-2I	04/05/2024		0.3400	***	0.1000
Fluoride	mg/L	MW-3I	04/04/2024		0.3600	***	0.1000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Fluoride	mg/L	MW-6I	04/04/2024		0.2900	***	0.1000
Lead, Total	ug/L	MW-11I	04/09/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-1I	04/09/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-2I	04/05/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-3I	04/04/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-6I	04/04/2024	ND	10.0000		10.0000
Lithium, Total	ug/L	MW-11I	04/09/2024		91.1000	***	20.0000
Lithium, Total	ug/L	MW-1I	04/09/2024		73.7000	***	20.0000
Lithium, Total	ug/L	MW-2I	04/05/2024		31.2000	***	20.0000
Lithium, Total	ug/L	MW-3I	04/04/2024	ND	20.0000		20.0000
Lithium, Total	ug/L	MW-6I	04/04/2024		107.0000	***	20.0000
Mercury	ug/L	MW-11I	04/09/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-1I	04/09/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-2I	04/05/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-3I	04/04/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-6I	04/04/2024	ND	0.2000		2.0000
Molybdenum, Total	ug/L	MW-11I	04/09/2024		127.0000	***	10.0000
Molybdenum, Total	ug/L	MW-1I	04/09/2024		95.6000	***	10.0000
Molybdenum, Total	ug/L	MW-2I	04/05/2024		88.6000	***	10.0000
Molybdenum, Total	ug/L	MW-3I	04/04/2024		42.2000	***	10.0000
Molybdenum, Total	ug/L	MW-6I	04/04/2024		165.0000	***	10.0000
Selenium, Total	ug/L	MW-11I	04/09/2024	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-1I	04/09/2024	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-2I	04/05/2024	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-3I	04/04/2024	ND	1.0000		1.0000
Selenium, Total	ug/L	MW-6I	04/04/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-11I	04/09/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-1I	04/09/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-2I	04/05/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-3I	04/04/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-6I	04/04/2024	ND	1.0000		1.0000
Total Radium	pCi/L	MW-11I	04/09/2024	ND	2.2900	**	1.9389
Total Radium	pCi/L	MW-1I	04/09/2024		1.1600		1.9389
Total Radium	pCi/L	MW-2I	04/05/2024		0.8910		1.9389
Total Radium	pCi/L	MW-3I	04/04/2024		1.9200		1.9389
Total Radium	pCi/L	MW-6I	04/04/2024		2.0400	*	1.9389

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	15	0.000	0	105	0.000
Arsenic, Total	1	15	0.067	8	105	0.076
Barium, Total	15	15	1.000	105	105	1.000
Beryllium, Total	0	12	0.000	0	75	0.000
Cadmium, Total	0	12	0.000	0	75	0.000
Chromium, Total	0	12	0.000	0	75	0.000
Cobalt, Total	1	14	0.071	0	100	0.000
Fluoride	0	15	0.000	110	110	1.000
Lead, Total	0	12	0.000	0	75	0.000
Lithium, Total	0	15	0.000	99	105	0.943
Mercury	0	11	0.000	0	75	0.000
Molybdenum, Total	0	15	0.000	105	105	1.000
Selenium, Total	0	15	0.000	0	105	0.000
Thallium, Total	0	12	0.000	0	75	0.000
Total Radium	9	14	0.643	94	105	0.895

N = Total number of measurements in all wells.
 Detect = Total number of detections in all wells.
 Proportion = Detect/N.

Table C-4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Arsenic, Total	1	15	0.067	4.373	4.373					2.326	non-norm	nonpar
Barium, Total	15	15	1.000	0.562	0.532					2.326	normal	normal
Beryllium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Cadmium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Chromium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Cobalt, Total	1	14	0.071	4.155	4.155					2.326	non-norm	nonpar
Fluoride	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Lead, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Lithium, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Mercury	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Molybdenum, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Selenium, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Thallium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Total Radium	9	14	0.643	2.163	1.467					2.326	normal	normal

* - Distribution override for that constituent.
 Fit to distribution is confirmed if G <= critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table C-5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, Total	ug/L	0	15					1.0000	nonpar	***	0.97
Arsenic, Total	ug/L	1	15					2.0000	nonpar		0.97
Barium, Total	ug/L	15	15	39.6600	3.6361	0.0100	2.7079	49.5061	normal		
Beryllium, Total	ug/L	0	12					0.2000	nonpar	***	0.95
Cadmium, Total	ug/L	0	12					2.0000	nonpar	***	0.95
Chromium, Total	ug/L	0	12					10.0000	nonpar	***	0.95
Cobalt, Total	ug/L	1	14					1.0000	nonpar	***	0.96
Fluoride	mg/L	0	15					0.1000	nonpar	***	0.97
Lead, Total	ug/L	0	12					10.0000	nonpar	***	0.95
Lithium, Total	ug/L	0	15					20.0000	nonpar	***	0.97
Mercury	ug/L	0	11					2.0000	nonpar	***	0.94
Molybdenum, Total	ug/L	0	15					10.0000	nonpar	***	0.97
Selenium, Total	ug/L	0	15					1.0000	nonpar	***	0.97
Thallium, Total	ug/L	0	12					1.0000	nonpar	***	0.95
Total Radium	pCi/L	9	14	0.5898	0.4924	0.0100	2.7400	1.9389	normal		

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table C-6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
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N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-111	04/20/2016	72.6000 *	49.5061
Barium, Total	ug/L	MW-111	06/02/2016	68.4000 *	49.5061
Barium, Total	ug/L	MW-111	08/12/2016	69.2000 *	49.5061
Barium, Total	ug/L	MW-111	09/30/2016	67.5000 *	49.5061
Barium, Total	ug/L	MW-111	12/01/2016	74.8000 *	49.5061
Barium, Total	ug/L	MW-111	01/31/2017	65.3000 *	49.5061
Barium, Total	ug/L	MW-111	05/25/2017	71.5000 *	49.5061
Barium, Total	ug/L	MW-111	08/10/2017	65.1000 *	49.5061
Barium, Total	ug/L	MW-111	05/22/2018	66.1000 *	49.5061
Barium, Total	ug/L	MW-111	09/12/2018	72.6000 *	49.5061
Barium, Total	ug/L	MW-111	05/08/2019	65.1000 *	49.5061
Barium, Total	ug/L	MW-111	11/14/2019	64.1000 *	49.5061
Barium, Total	ug/L	MW-111	05/07/2020	55.8000 *	49.5061
Barium, Total	ug/L	MW-111	11/12/2020	43.0000	49.5061
Barium, Total	ug/L	MW-111	05/17/2021	53.0000 *	49.5061
Barium, Total	ug/L	MW-111	11/17/2021	62.3000 *	49.5061
Barium, Total	ug/L	MW-111	05/12/2022	50.3000 *	49.5061
Barium, Total	ug/L	MW-111	11/21/2022	73.2000 *	49.5061
Barium, Total	ug/L	MW-111	05/02/2023	51.0000 *	49.5061
Barium, Total	ug/L	MW-111	10/09/2023	58.8000 *	49.5061
Barium, Total	ug/L	MW-111	04/09/2024	57.0000 *	49.5061
Barium, Total	ug/L	MW-11	04/19/2016	52.8000 *	49.5061
Barium, Total	ug/L	MW-11	06/02/2016	50.4000 *	49.5061
Barium, Total	ug/L	MW-11	08/10/2016	54.4000 *	49.5061
Barium, Total	ug/L	MW-11	09/30/2016	56.2000 *	49.5061
Barium, Total	ug/L	MW-11	12/02/2016	60.0000 *	49.5061
Barium, Total	ug/L	MW-11	01/31/2017	52.0000 *	49.5061
Barium, Total	ug/L	MW-11	05/26/2017	49.8000 *	49.5061
Barium, Total	ug/L	MW-11	08/11/2017	56.5000 *	49.5061
Barium, Total	ug/L	MW-11	05/23/2018	75.6000 *	49.5061
Barium, Total	ug/L	MW-11	09/11/2018	65.7000 *	49.5061
Barium, Total	ug/L	MW-11	05/08/2019	59.4000 *	49.5061
Barium, Total	ug/L	MW-11	11/14/2019	57.6000 *	49.5061
Barium, Total	ug/L	MW-11	05/05/2020	55.0000 *	49.5061
Barium, Total	ug/L	MW-11	11/11/2020	55.2000 *	49.5061
Barium, Total	ug/L	MW-11	05/25/2021	55.4000 *	49.5061
Barium, Total	ug/L	MW-11	11/09/2021	50.4000 *	49.5061
Barium, Total	ug/L	MW-11	05/10/2022	54.1000 *	49.5061

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-11	11/22/2022	81.9000 *	49.5061
Barium, Total	ug/L	MW-11	04/19/2023	52.7000 *	49.5061
Barium, Total	ug/L	MW-11	10/11/2023	63.4000 *	49.5061
Barium, Total	ug/L	MW-11	04/09/2024	41.9000	49.5061
Barium, Total	ug/L	MW-21	04/19/2016	76.3000 *	49.5061
Barium, Total	ug/L	MW-21	06/01/2016	61.9000 *	49.5061
Barium, Total	ug/L	MW-21	08/11/2016	65.0000 *	49.5061
Barium, Total	ug/L	MW-21	09/30/2016	59.7000 *	49.5061
Barium, Total	ug/L	MW-21	12/02/2016	66.5000 *	49.5061
Barium, Total	ug/L	MW-21	01/31/2017	74.4000 *	49.5061
Barium, Total	ug/L	MW-21	05/26/2017	82.4000 *	49.5061
Barium, Total	ug/L	MW-21	08/11/2017	85.2000 *	49.5061
Barium, Total	ug/L	MW-21	05/22/2018	64.6000 *	49.5061
Barium, Total	ug/L	MW-21	09/11/2018	53.7000 *	49.5061
Barium, Total	ug/L	MW-21	05/09/2019	61.8000 *	49.5061
Barium, Total	ug/L	MW-21	11/13/2019	65.2000 *	49.5061
Barium, Total	ug/L	MW-21	05/05/2020	60.1000 *	49.5061
Barium, Total	ug/L	MW-21	11/11/2020	69.2000 *	49.5061
Barium, Total	ug/L	MW-21	05/11/2021	82.3000 *	49.5061
Barium, Total	ug/L	MW-21	11/10/2021	69.3000 *	49.5061
Barium, Total	ug/L	MW-21	05/11/2022	67.9000 *	49.5061
Barium, Total	ug/L	MW-21	11/15/2022	109.0000 *	49.5061
Barium, Total	ug/L	MW-21	04/19/2023	94.9000 *	49.5061
Barium, Total	ug/L	MW-21	10/10/2023	75.1000 *	49.5061
Barium, Total	ug/L	MW-21	04/05/2024	70.1000 *	49.5061
Barium, Total	ug/L	MW-31	04/20/2016	73.9000 *	49.5061
Barium, Total	ug/L	MW-31	06/01/2016	72.2000 *	49.5061
Barium, Total	ug/L	MW-31	08/11/2016	72.7000 *	49.5061
Barium, Total	ug/L	MW-31	09/30/2016	76.8000 *	49.5061
Barium, Total	ug/L	MW-31	12/02/2016	76.5000 *	49.5061
Barium, Total	ug/L	MW-31	01/31/2017	71.3000 *	49.5061
Barium, Total	ug/L	MW-31	05/25/2017	66.8000 *	49.5061
Barium, Total	ug/L	MW-31	08/11/2017	71.3000 *	49.5061
Barium, Total	ug/L	MW-31	05/22/2018	63.8000 *	49.5061
Barium, Total	ug/L	MW-31	09/11/2018	53.9000 *	49.5061
Barium, Total	ug/L	MW-31	05/09/2019	58.2000 *	49.5061
Barium, Total	ug/L	MW-31	11/13/2019	51.8000 *	49.5061
Barium, Total	ug/L	MW-31	05/05/2020	56.7000 *	49.5061

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Barium, Total	ug/L	MW-3I	11/11/2020	60.0000 *	49.5061
Barium, Total	ug/L	MW-3I	05/11/2021	91.1000 *	49.5061
Barium, Total	ug/L	MW-3I	11/18/2021	93.9000 *	49.5061
Barium, Total	ug/L	MW-3I	05/11/2022	93.3000 *	49.5061
Barium, Total	ug/L	MW-3I	11/15/2022	84.5000 *	49.5061
Barium, Total	ug/L	MW-3I	04/17/2023	62.4000 *	49.5061
Barium, Total	ug/L	MW-3I	10/09/2023	55.1000 *	49.5061
Barium, Total	ug/L	MW-3I	04/04/2024	71.4000 *	49.5061
Barium, Total	ug/L	MW-6I	04/20/2016	64.0000 *	49.5061
Barium, Total	ug/L	MW-6I	06/01/2016	59.4000 *	49.5061
Barium, Total	ug/L	MW-6I	08/11/2016	55.5000 *	49.5061
Barium, Total	ug/L	MW-6I	09/29/2016	56.6000 *	49.5061
Barium, Total	ug/L	MW-6I	12/01/2016	62.9000 *	49.5061
Barium, Total	ug/L	MW-6I	01/30/2017	64.2000 *	49.5061
Barium, Total	ug/L	MW-6I	05/25/2017	60.5000 *	49.5061
Barium, Total	ug/L	MW-6I	08/10/2017	58.7000 *	49.5061
Barium, Total	ug/L	MW-6I	05/22/2018	42.4000 *	49.5061
Barium, Total	ug/L	MW-6I	09/12/2018	42.3000 *	49.5061
Barium, Total	ug/L	MW-6I	05/08/2019	60.8000 *	49.5061
Barium, Total	ug/L	MW-6I	11/14/2019	57.1000 *	49.5061
Barium, Total	ug/L	MW-6I	05/08/2020	52.7000 *	49.5061
Barium, Total	ug/L	MW-6I	11/10/2020	49.3000 *	49.5061
Barium, Total	ug/L	MW-6I	05/18/2021	52.9000 *	49.5061
Barium, Total	ug/L	MW-6I	11/09/2021	65.0000 *	49.5061
Barium, Total	ug/L	MW-6I	05/11/2022	62.6000 *	49.5061
Barium, Total	ug/L	MW-6I	11/15/2022	67.1000 *	49.5061
Barium, Total	ug/L	MW-6I	05/01/2023	73.8000 *	49.5061
Barium, Total	ug/L	MW-6I	10/10/2023	76.4000 *	49.5061
Barium, Total	ug/L	MW-6I	04/04/2024	78.7000 *	49.5061
Fluoride	mg/L	MW-11I	04/20/2016	0.3900 *	0.1000
Fluoride	mg/L	MW-11I	06/02/2016	0.3900 *	0.1000
Fluoride	mg/L	MW-11I	08/12/2016	0.3600 *	0.1000
Fluoride	mg/L	MW-11I	09/30/2016	0.3900 *	0.1000
Fluoride	mg/L	MW-11I	12/01/2016	0.4000 *	0.1000
Fluoride	mg/L	MW-11I	01/31/2017	0.3900 *	0.1000
Fluoride	mg/L	MW-11I	05/25/2017	0.3800 *	0.1000
Fluoride	mg/L	MW-11I	08/10/2017	0.4100 *	0.1000
Fluoride	mg/L	MW-11I	09/28/2017	0.4100 *	0.1000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-111	05/22/2018	0.3700 *	0.1000
Fluoride	mg/L	MW-111	09/12/2018	0.2900 *	0.1000
Fluoride	mg/L	MW-111	05/08/2019	0.3400 *	0.1000
Fluoride	mg/L	MW-111	11/14/2019	0.3400 *	0.1000
Fluoride	mg/L	MW-111	05/07/2020	0.4000 *	0.1000
Fluoride	mg/L	MW-111	11/12/2020	0.4100 *	0.1000
Fluoride	mg/L	MW-111	05/17/2021	0.4000 *	0.1000
Fluoride	mg/L	MW-111	11/17/2021	0.3500 *	0.1000
Fluoride	mg/L	MW-111	05/12/2022	0.4400 *	0.1000
Fluoride	mg/L	MW-111	11/21/2022	0.4200 *	0.1000
Fluoride	mg/L	MW-111	05/02/2023	0.4200 *	0.1000
Fluoride	mg/L	MW-111	10/09/2023	0.3800 *	0.1000
Fluoride	mg/L	MW-111	04/09/2024	0.4600 *	0.1000
Fluoride	mg/L	MW-11	04/19/2016	0.4200 *	0.1000
Fluoride	mg/L	MW-11	06/02/2016	0.4200 *	0.1000
Fluoride	mg/L	MW-11	08/10/2016	0.4000 *	0.1000
Fluoride	mg/L	MW-11	09/30/2016	0.4200 *	0.1000
Fluoride	mg/L	MW-11	12/02/2016	0.4300 *	0.1000
Fluoride	mg/L	MW-11	01/31/2017	0.3900 *	0.1000
Fluoride	mg/L	MW-11	05/26/2017	0.3700 *	0.1000
Fluoride	mg/L	MW-11	08/11/2017	0.4000 *	0.1000
Fluoride	mg/L	MW-11	09/28/2017	0.4000 *	0.1000
Fluoride	mg/L	MW-11	05/23/2018	0.3400 *	0.1000
Fluoride	mg/L	MW-11	09/11/2018	0.2900 *	0.1000
Fluoride	mg/L	MW-11	05/08/2019	0.3300 *	0.1000
Fluoride	mg/L	MW-11	11/14/2019	0.3500 *	0.1000
Fluoride	mg/L	MW-11	05/05/2020	0.3500 *	0.1000
Fluoride	mg/L	MW-11	11/11/2020	0.3100 *	0.1000
Fluoride	mg/L	MW-11	05/25/2021	0.2600 *	0.1000
Fluoride	mg/L	MW-11	11/09/2021	0.2800 *	0.1000
Fluoride	mg/L	MW-11	05/10/2022	0.2900 *	0.1000
Fluoride	mg/L	MW-11	11/22/2022	0.3200 *	0.1000
Fluoride	mg/L	MW-11	04/19/2023	0.2800 *	0.1000
Fluoride	mg/L	MW-11	10/11/2023	0.2600 *	0.1000
Fluoride	mg/L	MW-11	04/09/2024	0.3500 *	0.1000
Fluoride	mg/L	MW-21	04/19/2016	0.4600 *	0.1000
Fluoride	mg/L	MW-21	06/01/2016	0.4500 *	0.1000
Fluoride	mg/L	MW-21	08/11/2016	0.4000 *	0.1000

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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-2I	09/30/2016	0.4200 *	0.1000
Fluoride	mg/L	MW-2I	12/02/2016	0.4400 *	0.1000
Fluoride	mg/L	MW-2I	01/31/2017	0.3900 *	0.1000
Fluoride	mg/L	MW-2I	05/26/2017	0.3600 *	0.1000
Fluoride	mg/L	MW-2I	08/11/2017	0.3600 *	0.1000
Fluoride	mg/L	MW-2I	09/27/2017	0.3300 *	0.1000
Fluoride	mg/L	MW-2I	05/22/2018	0.3200 *	0.1000
Fluoride	mg/L	MW-2I	09/11/2018	0.2700 *	0.1000
Fluoride	mg/L	MW-2I	05/09/2019	0.2900 *	0.1000
Fluoride	mg/L	MW-2I	11/13/2019	0.2900 *	0.1000
Fluoride	mg/L	MW-2I	05/05/2020	0.3100 *	0.1000
Fluoride	mg/L	MW-2I	11/11/2020	0.2900 *	0.1000
Fluoride	mg/L	MW-2I	05/11/2021	0.1800 *	0.1000
Fluoride	mg/L	MW-2I	11/10/2021	0.2900 *	0.1000
Fluoride	mg/L	MW-2I	05/11/2022	0.2700 *	0.1000
Fluoride	mg/L	MW-2I	11/15/2022	0.2400 *	0.1000
Fluoride	mg/L	MW-2I	04/19/2023	0.2800 *	0.1000
Fluoride	mg/L	MW-2I	10/10/2023	0.2700 *	0.1000
Fluoride	mg/L	MW-2I	04/05/2024	0.3400 *	0.1000
Fluoride	mg/L	MW-3I	04/20/2016	0.3300 *	0.1000
Fluoride	mg/L	MW-3I	06/01/2016	0.2900 *	0.1000
Fluoride	mg/L	MW-3I	08/11/2016	0.2800 *	0.1000
Fluoride	mg/L	MW-3I	09/30/2016	0.2700 *	0.1000
Fluoride	mg/L	MW-3I	12/02/2016	0.3300 *	0.1000
Fluoride	mg/L	MW-3I	01/31/2017	0.2800 *	0.1000
Fluoride	mg/L	MW-3I	05/25/2017	0.3100 *	0.1000
Fluoride	mg/L	MW-3I	08/11/2017	0.2800 *	0.1000
Fluoride	mg/L	MW-3I	09/27/2017	0.3000 *	0.1000
Fluoride	mg/L	MW-3I	05/22/2018	0.2800 *	0.1000
Fluoride	mg/L	MW-3I	09/11/2018	0.2500 *	0.1000
Fluoride	mg/L	MW-3I	05/09/2019	0.2900 *	0.1000
Fluoride	mg/L	MW-3I	11/13/2019	0.3000 *	0.1000
Fluoride	mg/L	MW-3I	05/05/2020	0.3200 *	0.1000
Fluoride	mg/L	MW-3I	11/11/2020	0.2900 *	0.1000
Fluoride	mg/L	MW-3I	05/11/2021	0.1600 *	0.1000
Fluoride	mg/L	MW-3I	11/18/2021	0.2200 *	0.1000
Fluoride	mg/L	MW-3I	05/11/2022	0.3200 *	0.1000
Fluoride	mg/L	MW-3I	11/15/2022	0.2800 *	0.1000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-3I	04/17/2023	0.3400 *	0.1000
Fluoride	mg/L	MW-3I	10/09/2023	0.4000 *	0.1000
Fluoride	mg/L	MW-3I	04/04/2024	0.3600 *	0.1000
Fluoride	mg/L	MW-6I	04/20/2016	0.3400 *	0.1000
Fluoride	mg/L	MW-6I	06/01/2016	0.3200 *	0.1000
Fluoride	mg/L	MW-6I	08/11/2016	0.3200 *	0.1000
Fluoride	mg/L	MW-6I	09/29/2016	0.3300 *	0.1000
Fluoride	mg/L	MW-6I	12/01/2016	0.3300 *	0.1000
Fluoride	mg/L	MW-6I	01/30/2017	0.2900 *	0.1000
Fluoride	mg/L	MW-6I	05/25/2017	0.2900 *	0.1000
Fluoride	mg/L	MW-6I	08/10/2017	0.3100 *	0.1000
Fluoride	mg/L	MW-6I	09/27/2017	0.3400 *	0.1000
Fluoride	mg/L	MW-6I	05/22/2018	0.2200 *	0.1000
Fluoride	mg/L	MW-6I	09/12/2018	0.2600 *	0.1000
Fluoride	mg/L	MW-6I	05/08/2019	0.2500 *	0.1000
Fluoride	mg/L	MW-6I	11/14/2019	0.2600 *	0.1000
Fluoride	mg/L	MW-6I	05/08/2020	0.2400 *	0.1000
Fluoride	mg/L	MW-6I	11/10/2020	0.2900 *	0.1000
Fluoride	mg/L	MW-6I	05/18/2021	0.3000 *	0.1000
Fluoride	mg/L	MW-6I	11/09/2021	0.2700 *	0.1000
Fluoride	mg/L	MW-6I	05/11/2022	0.3500 *	0.1000
Fluoride	mg/L	MW-6I	11/15/2022	0.2900 *	0.1000
Fluoride	mg/L	MW-6I	05/01/2023	0.3200 *	0.1000
Fluoride	mg/L	MW-6I	10/10/2023	0.2900 *	0.1000
Fluoride	mg/L	MW-6I	04/04/2024	0.2900 *	0.1000
Lithium, Total	ug/L	MW-11I	04/20/2016	120.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	06/02/2016	124.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	08/12/2016	115.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	09/30/2016	116.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	12/01/2016	123.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	01/31/2017	111.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/25/2017	123.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	08/10/2017	114.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/22/2018	109.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	09/12/2018	107.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/08/2019	104.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	11/14/2019	102.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/07/2020	102.0000 *	20.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-11I	11/12/2020	93.2000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/17/2021	107.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	11/17/2021	118.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/12/2022	102.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	11/21/2022	122.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	05/02/2023	97.4000 *	20.0000
Lithium, Total	ug/L	MW-11I	10/09/2023	107.0000 *	20.0000
Lithium, Total	ug/L	MW-11I	04/09/2024	91.1000 *	20.0000
Lithium, Total	ug/L	MW-1I	04/19/2016	100.0000 *	20.0000
Lithium, Total	ug/L	MW-1I	06/02/2016	96.2000 *	20.0000
Lithium, Total	ug/L	MW-1I	08/10/2016	92.3000 *	20.0000
Lithium, Total	ug/L	MW-1I	09/30/2016	92.5000 *	20.0000
Lithium, Total	ug/L	MW-1I	12/02/2016	86.8000 *	20.0000
Lithium, Total	ug/L	MW-1I	01/31/2017	90.7000 *	20.0000
Lithium, Total	ug/L	MW-1I	05/26/2017	97.5000 *	20.0000
Lithium, Total	ug/L	MW-1I	08/11/2017	99.3000 *	20.0000
Lithium, Total	ug/L	MW-1I	05/23/2018	120.0000 *	20.0000
Lithium, Total	ug/L	MW-1I	09/11/2018	98.2000 *	20.0000
Lithium, Total	ug/L	MW-1I	05/08/2019	116.0000 *	20.0000
Lithium, Total	ug/L	MW-1I	11/14/2019	100.0000 *	20.0000
Lithium, Total	ug/L	MW-1I	05/05/2020	106.0000 *	20.0000
Lithium, Total	ug/L	MW-1I	11/11/2020	92.4000 *	20.0000
Lithium, Total	ug/L	MW-1I	05/25/2021	87.7000 *	20.0000
Lithium, Total	ug/L	MW-1I	11/09/2021	92.5000 *	20.0000
Lithium, Total	ug/L	MW-1I	05/10/2022	86.9000 *	20.0000
Lithium, Total	ug/L	MW-1I	11/22/2022	94.7000 *	20.0000
Lithium, Total	ug/L	MW-1I	04/19/2023	87.2000 *	20.0000
Lithium, Total	ug/L	MW-1I	10/11/2023	86.9000 *	20.0000
Lithium, Total	ug/L	MW-1I	04/09/2024	73.7000 *	20.0000
Lithium, Total	ug/L	MW-2I	04/19/2016	126.0000 *	20.0000
Lithium, Total	ug/L	MW-2I	06/01/2016	116.0000 *	20.0000
Lithium, Total	ug/L	MW-2I	08/11/2016	114.0000 *	20.0000
Lithium, Total	ug/L	MW-2I	09/30/2016	116.0000 *	20.0000
Lithium, Total	ug/L	MW-2I	12/02/2016	124.0000 *	20.0000
Lithium, Total	ug/L	MW-2I	01/31/2017	124.0000 *	20.0000
Lithium, Total	ug/L	MW-2I	05/26/2017	127.0000 *	20.0000
Lithium, Total	ug/L	MW-2I	08/11/2017	109.0000 *	20.0000
Lithium, Total	ug/L	MW-2I	05/22/2018	88.8000 *	20.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-2I	09/11/2018	68.4000 *	20.0000
Lithium, Total	ug/L	MW-2I	05/09/2019	86.5000 *	20.0000
Lithium, Total	ug/L	MW-2I	11/13/2019	78.4000 *	20.0000
Lithium, Total	ug/L	MW-2I	05/05/2020	77.7000 *	20.0000
Lithium, Total	ug/L	MW-2I	11/11/2020	61.3000 *	20.0000
Lithium, Total	ug/L	MW-2I	05/11/2021	58.1000 *	20.0000
Lithium, Total	ug/L	MW-2I	11/10/2021	54.8000 *	20.0000
Lithium, Total	ug/L	MW-2I	05/11/2022	47.4000 *	20.0000
Lithium, Total	ug/L	MW-2I	11/15/2022	52.3000 *	20.0000
Lithium, Total	ug/L	MW-2I	04/19/2023	47.9000 *	20.0000
Lithium, Total	ug/L	MW-2I	10/10/2023	32.9000 *	20.0000
Lithium, Total	ug/L	MW-2I	04/05/2024	31.2000 *	20.0000
Lithium, Total	ug/L	MW-6I	04/20/2016	148.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	06/01/2016	146.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	08/11/2016	133.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	09/29/2016	136.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	12/01/2016	138.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	01/30/2017	140.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/25/2017	139.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	08/10/2017	129.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/22/2018	101.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	09/12/2018	90.1000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/08/2019	112.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	11/14/2019	97.8000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/08/2020	114.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	11/10/2020	122.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/18/2021	102.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	11/09/2021	115.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/11/2022	113.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	11/15/2022	104.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	05/01/2023	99.5000 *	20.0000
Lithium, Total	ug/L	MW-6I	10/10/2023	100.0000 *	20.0000
Lithium, Total	ug/L	MW-6I	04/04/2024	107.0000 *	20.0000
Molybdenum, Total	ug/L	MW-11I	04/20/2016	179.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	06/02/2016	180.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	08/12/2016	173.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	09/30/2016	172.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11I	12/01/2016	177.0000 *	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-111	01/31/2017	164.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	05/25/2017	174.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	08/10/2017	181.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	05/22/2018	170.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	09/12/2018	165.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	05/08/2019	169.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	11/14/2019	156.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	05/07/2020	170.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	11/12/2020	164.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	05/17/2021	152.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	11/17/2021	149.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	05/12/2022	148.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	11/21/2022	127.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	05/02/2023	128.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	10/09/2023	122.0000 *	10.0000
Molybdenum, Total	ug/L	MW-111	04/09/2024	127.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	04/19/2016	126.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	06/02/2016	126.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	08/10/2016	124.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	09/30/2016	123.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	12/02/2016	120.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	01/31/2017	125.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/26/2017	123.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	08/11/2017	124.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/23/2018	107.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	09/11/2018	100.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/08/2019	114.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	11/14/2019	109.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/05/2020	109.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	11/11/2020	99.9000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/25/2021	97.5000 *	10.0000
Molybdenum, Total	ug/L	MW-11	11/09/2021	107.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	05/10/2022	96.3000 *	10.0000
Molybdenum, Total	ug/L	MW-11	11/22/2022	87.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11	04/19/2023	87.9000 *	10.0000
Molybdenum, Total	ug/L	MW-11	10/11/2023	81.5000 *	10.0000
Molybdenum, Total	ug/L	MW-11	04/09/2024	95.6000 *	10.0000
Molybdenum, Total	ug/L	MW-21	04/19/2016	102.0000 *	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-2I	06/01/2016	115.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	08/11/2016	111.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	09/30/2016	109.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	12/02/2016	111.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	01/31/2017	104.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/26/2017	92.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	08/11/2017	84.3000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/22/2018	75.4000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	09/11/2018	56.1000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/09/2019	67.1000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	11/13/2019	62.2000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/05/2020	64.6000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	11/11/2020	63.8000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/11/2021	64.1000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	11/10/2021	57.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	05/11/2022	65.4000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	11/15/2022	59.7000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	04/19/2023	73.7000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	10/10/2023	76.7000 *	10.0000
Molybdenum, Total	ug/L	MW-2I	04/05/2024	88.6000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	04/20/2016	71.1000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	06/01/2016	66.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	08/11/2016	64.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	09/30/2016	57.5000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	12/02/2016	58.8000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	01/31/2017	60.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/25/2017	57.8000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	08/11/2017	58.4000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/22/2018	79.7000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	09/11/2018	75.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/09/2019	91.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	11/13/2019	78.9000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/05/2020	80.3000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	11/11/2020	69.2000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/11/2021	59.5000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	11/18/2021	61.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	05/11/2022	60.0000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	11/15/2022	56.0000 *	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-3I	04/17/2023	68.1000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	10/09/2023	56.2000 *	10.0000
Molybdenum, Total	ug/L	MW-3I	04/04/2024	42.2000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	04/20/2016	201.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	06/01/2016	198.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	08/11/2016	215.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	09/29/2016	214.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	12/01/2016	204.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	01/30/2017	194.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/25/2017	189.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	08/10/2017	207.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/22/2018	257.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	09/12/2018	191.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/08/2019	169.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	11/14/2019	186.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/08/2020	207.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	11/10/2020	229.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/18/2021	231.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	11/09/2021	219.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/11/2022	209.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	11/15/2022	191.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	05/01/2023	173.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	10/10/2023	160.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6I	04/04/2024	165.0000 *	10.0000
Total Radium	pCi/L	MW-11I	04/20/2016	1.6400	1.9389
Total Radium	pCi/L	MW-11I	06/02/2016	1.9800 *	1.9389
Total Radium	pCi/L	MW-11I	08/12/2016	1.4600	1.9389
Total Radium	pCi/L	MW-11I	09/30/2016	3.1800 *	1.9389
Total Radium	pCi/L	MW-11I	12/01/2016	1.2100	1.9389
Total Radium	pCi/L	MW-11I	01/31/2017	1.0500	1.9389
Total Radium	pCi/L	MW-11I	05/25/2017	1.9000	1.9389
Total Radium	pCi/L	MW-11I	08/10/2017	1.7600	1.9389
Total Radium	pCi/L	MW-11I	05/22/2018	1.8200	1.9389
Total Radium	pCi/L	MW-11I	09/12/2018	1.8100	1.9389
Total Radium	pCi/L	MW-11I	05/08/2019	1.9900 *	1.9389
Total Radium	pCi/L	MW-11I	11/14/2019	1.0800	1.9389
Total Radium	pCi/L	MW-11I	05/07/2020	1.3200	1.9389
Total Radium	pCi/L	MW-11I	11/12/2020	1.1300	1.9389

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Total Radium	pCi/L	MW-111	05/17/2021		1.7000	1.9389
Total Radium	pCi/L	MW-111	11/17/2021		2.0600 *	1.9389
Total Radium	pCi/L	MW-111	05/12/2022		1.4400	1.9389
Total Radium	pCi/L	MW-111	11/21/2022	ND	1.9300	1.9389
Total Radium	pCi/L	MW-111	05/02/2023		0.8580	1.9389
Total Radium	pCi/L	MW-111	10/09/2023		2.4400 *	1.9389
Total Radium	pCi/L	MW-111	04/09/2024	ND	2.2900	1.9389
Total Radium	pCi/L	MW-61	04/20/2016		0.9390	1.9389
Total Radium	pCi/L	MW-61	06/01/2016		2.0200 *	1.9389
Total Radium	pCi/L	MW-61	08/11/2016		1.4900	1.9389
Total Radium	pCi/L	MW-61	09/29/2016		2.4700 *	1.9389
Total Radium	pCi/L	MW-61	12/01/2016		1.0400	1.9389
Total Radium	pCi/L	MW-61	01/30/2017		1.6100	1.9389
Total Radium	pCi/L	MW-61	05/25/2017		2.0500 *	1.9389
Total Radium	pCi/L	MW-61	08/10/2017		2.2900 *	1.9389
Total Radium	pCi/L	MW-61	05/22/2018		1.6300	1.9389
Total Radium	pCi/L	MW-61	09/12/2018		1.5100	1.9389
Total Radium	pCi/L	MW-61	05/08/2019		0.7700	1.9389
Total Radium	pCi/L	MW-61	11/14/2019		1.5300	1.9389
Total Radium	pCi/L	MW-61	05/08/2020		2.0400 *	1.9389
Total Radium	pCi/L	MW-61	11/10/2020		1.0900	1.9389
Total Radium	pCi/L	MW-61	05/18/2021		2.5200 *	1.9389
Total Radium	pCi/L	MW-61	11/09/2021		1.5300	1.9389
Total Radium	pCi/L	MW-61	05/11/2022		1.3800	1.9389
Total Radium	pCi/L	MW-61	11/15/2022		1.6300	1.9389
Total Radium	pCi/L	MW-61	05/01/2023		1.8800	1.9389
Total Radium	pCi/L	MW-61	10/10/2023		1.7100	1.9389
Total Radium	pCi/L	MW-61	04/04/2024		2.0400 *	1.9389

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program

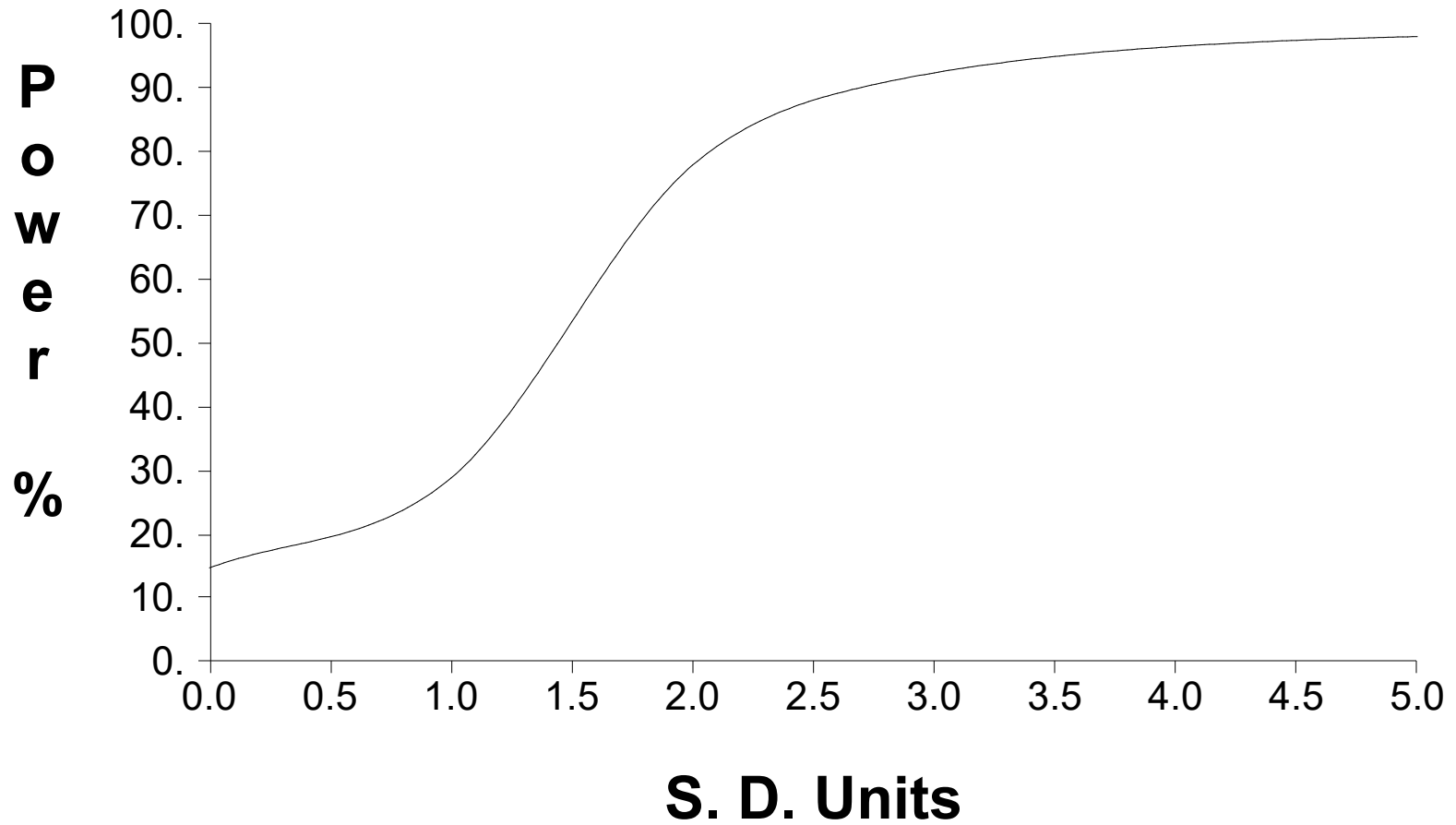


Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, Total	ug/L	MW-13D	08/08/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13D	09/25/2019	ND	1.0000		
Antimony, Total	ug/L	MW-13D	05/07/2020	ND	6.0000	1.0000	**
Antimony, Total	ug/L	MW-13D	11/12/2020	ND	1.0000		
Antimony, Total	ug/L	MW-13D	02/25/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	03/29/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	05/20/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	06/22/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	07/27/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	11/16/2021	ND	1.0000		
Antimony, Total	ug/L	MW-13D	05/19/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13D	11/18/2022	ND	1.0000		
Antimony, Total	ug/L	MW-13D	04/17/2023	ND	1.0000		
Antimony, Total	ug/L	MW-13D	10/11/2023	ND	1.0000		
Antimony, Total	ug/L	MW-13D	04/10/2024	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	08/08/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	09/25/2019	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	05/07/2020	ND	10.0000	1.0000	**
Arsenic, Total	ug/L	MW-13D	11/12/2020		1.3000		
Arsenic, Total	ug/L	MW-13D	02/25/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	03/29/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	05/20/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	06/22/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	07/27/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	11/16/2021	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	05/19/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	11/18/2022	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	04/17/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	10/11/2023	ND	1.0000		
Arsenic, Total	ug/L	MW-13D	04/10/2024	ND	1.0000		
Barium, Total	ug/L	MW-13D	08/08/2019		53.2000		
Barium, Total	ug/L	MW-13D	09/25/2019		47.4000		
Barium, Total	ug/L	MW-13D	05/07/2020		53.1000		
Barium, Total	ug/L	MW-13D	11/12/2020		57.9000		
Barium, Total	ug/L	MW-13D	02/25/2021		57.0000		
Barium, Total	ug/L	MW-13D	03/29/2021		60.9000		
Barium, Total	ug/L	MW-13D	05/20/2021		60.3000		
Barium, Total	ug/L	MW-13D	06/22/2021		59.3000		
Barium, Total	ug/L	MW-13D	07/27/2021		64.5000		
Barium, Total	ug/L	MW-13D	11/16/2021		64.6000		
Barium, Total	ug/L	MW-13D	05/19/2022		62.4000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium, Total	ug/L	MW-13D	11/18/2022		64.5000		
Barium, Total	ug/L	MW-13D	04/17/2023		59.4000		
Barium, Total	ug/L	MW-13D	10/11/2023		57.4000		
Barium, Total	ug/L	MW-13D	04/10/2024		55.1000		
Beryllium, Total	ug/L	MW-13D	08/08/2019	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	09/25/2019	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	05/07/2020	ND	4.0000	0.2000	**
Beryllium, Total	ug/L	MW-13D	11/12/2020	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	02/25/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	03/29/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	05/20/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	06/22/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	07/27/2021	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	05/19/2022	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	04/17/2023	ND	0.2000		
Beryllium, Total	ug/L	MW-13D	04/10/2024	ND	0.2000		
Cadmium, Total	ug/L	MW-13D	08/08/2019	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	09/25/2019	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	05/07/2020	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	11/12/2020	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	02/25/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	03/29/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	05/20/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	06/22/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	07/27/2021	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	05/19/2022	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	04/17/2023	ND	2.0000		
Cadmium, Total	ug/L	MW-13D	04/10/2024	ND	2.0000		
Chromium, Total	ug/L	MW-13D	08/08/2019	ND	10.0000		
Chromium, Total	ug/L	MW-13D	09/25/2019	ND	10.0000		
Chromium, Total	ug/L	MW-13D	05/07/2020	ND	10.0000		
Chromium, Total	ug/L	MW-13D	11/12/2020	ND	10.0000		
Chromium, Total	ug/L	MW-13D	02/25/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13D	03/29/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13D	05/20/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13D	06/22/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13D	07/27/2021	ND	10.0000		
Chromium, Total	ug/L	MW-13D	05/19/2022	ND	10.0000		
Chromium, Total	ug/L	MW-13D	04/17/2023	ND	10.0000		
Chromium, Total	ug/L	MW-13D	04/10/2024	ND	10.0000		
Cobalt, Total	ug/L	MW-13D	08/08/2019	ND	1.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt, Total	ug/L	MW-13D	09/25/2019	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	05/07/2020	ND	10.0000	1.0000	**
Cobalt, Total	ug/L	MW-13D	11/12/2020		1.2000		
Cobalt, Total	ug/L	MW-13D	02/25/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	03/29/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	05/20/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	06/22/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	07/27/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	11/16/2021	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	05/19/2022	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	04/17/2023	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	10/11/2023	ND	1.0000		
Cobalt, Total	ug/L	MW-13D	04/10/2024	ND	1.0000		
Fluoride	mg/L	MW-13D	08/08/2019	ND	0.1000		
Fluoride	mg/L	MW-13D	09/25/2019		0.1100		
Fluoride	mg/L	MW-13D	05/07/2020		0.1100		
Fluoride	mg/L	MW-13D	11/12/2020	ND	0.1000		
Fluoride	mg/L	MW-13D	02/25/2021	ND	0.1000		
Fluoride	mg/L	MW-13D	03/29/2021	ND	0.1000		
Fluoride	mg/L	MW-13D	05/20/2021	ND	0.1000		
Fluoride	mg/L	MW-13D	06/22/2021		0.1200		
Fluoride	mg/L	MW-13D	07/27/2021		0.1200		
Fluoride	mg/L	MW-13D	11/16/2021	ND	0.1000		
Fluoride	mg/L	MW-13D	05/19/2022		0.1000		
Fluoride	mg/L	MW-13D	11/18/2022		0.1100		
Fluoride	mg/L	MW-13D	04/17/2023	ND	0.1000		
Fluoride	mg/L	MW-13D	10/11/2023	ND	0.1000		
Fluoride	mg/L	MW-13D	04/10/2024	ND	0.1000		
Lead, Total	ug/L	MW-13D	08/08/2019	ND	10.0000		
Lead, Total	ug/L	MW-13D	09/25/2019	ND	10.0000		
Lead, Total	ug/L	MW-13D	05/07/2020	ND	10.0000		
Lead, Total	ug/L	MW-13D	11/12/2020	ND	10.0000		
Lead, Total	ug/L	MW-13D	02/25/2021	ND	10.0000		
Lead, Total	ug/L	MW-13D	03/29/2021	ND	10.0000		
Lead, Total	ug/L	MW-13D	05/20/2021	ND	10.0000		
Lead, Total	ug/L	MW-13D	06/22/2021	ND	10.0000		
Lead, Total	ug/L	MW-13D	07/27/2021	ND	10.0000		
Lead, Total	ug/L	MW-13D	05/19/2022	ND	10.0000		
Lead, Total	ug/L	MW-13D	04/17/2023	ND	10.0000		
Lead, Total	ug/L	MW-13D	04/10/2024	ND	10.0000		
Lithium, Total	ug/L	MW-13D	08/08/2019	ND	20.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lithium, Total	ug/L	MW-13D	09/25/2019	ND	20.0000		
Lithium, Total	ug/L	MW-13D	05/07/2020	ND	20.0000		
Lithium, Total	ug/L	MW-13D	11/12/2020	ND	20.0000		
Lithium, Total	ug/L	MW-13D	02/25/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13D	03/29/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13D	05/20/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13D	06/22/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13D	07/27/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13D	11/16/2021	ND	20.0000		
Lithium, Total	ug/L	MW-13D	05/19/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13D	11/18/2022	ND	20.0000		
Lithium, Total	ug/L	MW-13D	04/17/2023	ND	20.0000		
Lithium, Total	ug/L	MW-13D	10/11/2023	ND	20.0000		
Lithium, Total	ug/L	MW-13D	04/10/2024	ND	20.0000		
Mercury	ug/L	MW-13D	08/08/2019	ND	2.0000		
Mercury	ug/L	MW-13D	09/25/2019	ND	2.0000		
Mercury	ug/L	MW-13D	11/12/2020	ND	2.0000		
Mercury	ug/L	MW-13D	02/25/2021	ND	2.0000		
Mercury	ug/L	MW-13D	03/29/2021	ND	2.0000		
Mercury	ug/L	MW-13D	05/20/2021	ND	2.0000		
Mercury	ug/L	MW-13D	06/22/2021	ND	2.0000		
Mercury	ug/L	MW-13D	07/27/2021	ND	2.0000		
Mercury	ug/L	MW-13D	05/19/2022	ND	0.2000	2.0000	**
Mercury	ug/L	MW-13D	04/17/2023	ND	0.2000	2.0000	**
Mercury	ug/L	MW-13D	04/10/2024	ND	0.2000	2.0000	**
Molybdenum, Total	ug/L	MW-13D	08/08/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	09/25/2019	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	05/07/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	11/12/2020	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	02/25/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	03/29/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	05/20/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	06/22/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	07/27/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	11/16/2021	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	05/19/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	11/18/2022	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	04/17/2023	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	10/11/2023	ND	10.0000		
Molybdenum, Total	ug/L	MW-13D	04/10/2024	ND	10.0000		
Selenium, Total	ug/L	MW-13D	08/08/2019	ND	1.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, Total	ug/L	MW-13D	09/25/2019	ND	1.0000		
Selenium, Total	ug/L	MW-13D	05/07/2020	ND	10.0000		*
Selenium, Total	ug/L	MW-13D	11/12/2020		1.2000		
Selenium, Total	ug/L	MW-13D	02/25/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13D	03/29/2021	ND	1.0000		
Selenium, Total	ug/L	MW-13D	05/20/2021		1.2000		
Selenium, Total	ug/L	MW-13D	06/22/2021		1.2000		
Selenium, Total	ug/L	MW-13D	07/27/2021		1.3000		
Selenium, Total	ug/L	MW-13D	11/16/2021		1.3000		
Selenium, Total	ug/L	MW-13D	05/19/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13D	11/18/2022	ND	1.0000		
Selenium, Total	ug/L	MW-13D	04/17/2023		1.2000		
Selenium, Total	ug/L	MW-13D	10/11/2023	ND	1.0000		
Selenium, Total	ug/L	MW-13D	04/10/2024		1.2000		
Thallium, Total	ug/L	MW-13D	08/08/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13D	09/25/2019	ND	1.0000		
Thallium, Total	ug/L	MW-13D	05/07/2020	ND	10.0000	1.0000	**
Thallium, Total	ug/L	MW-13D	11/12/2020	ND	1.0000		
Thallium, Total	ug/L	MW-13D	02/25/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	03/29/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	05/20/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	06/22/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	07/27/2021	ND	1.0000		
Thallium, Total	ug/L	MW-13D	05/19/2022	ND	1.0000		
Thallium, Total	ug/L	MW-13D	04/17/2023	ND	1.0000		
Thallium, Total	ug/L	MW-13D	04/10/2024	ND	1.0000		
Total Radium	pCi/L	MW-13D	08/08/2019	ND	1.5900	1.6600	**
Total Radium	pCi/L	MW-13D	09/25/2019		0.9060		
Total Radium	pCi/L	MW-13D	11/12/2020		1.1000		
Total Radium	pCi/L	MW-13D	02/25/2021		0.5860		
Total Radium	pCi/L	MW-13D	03/29/2021	ND	1.6600		
Total Radium	pCi/L	MW-13D	05/20/2021	ND	2.1400	1.6600	**
Total Radium	pCi/L	MW-13D	06/22/2021	ND	1.5900	1.6600	**
Total Radium	pCi/L	MW-13D	07/27/2021		0.7950		
Total Radium	pCi/L	MW-13D	11/16/2021		0.5500		
Total Radium	pCi/L	MW-13D	05/19/2022		0.9330		
Total Radium	pCi/L	MW-13D	11/18/2022		0.6980		
Total Radium	pCi/L	MW-13D	04/17/2023		1.9500		
Total Radium	pCi/L	MW-13D	10/11/2023		1.4100		
Total Radium	pCi/L	MW-13D	04/10/2024	ND	2.7800	1.6600	**

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, Total	ug/L	MW-11D	04/09/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-1D	04/09/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-2D	04/05/2024	ND	1.0000		1.0000
Antimony, Total	ug/L	MW-6D	04/04/2024	ND	1.0000		1.0000
Arsenic, Total	ug/L	MW-11D	04/09/2024		4.4000	***	1.3000
Arsenic, Total	ug/L	MW-1D	04/09/2024		1.9000	***	1.3000
Arsenic, Total	ug/L	MW-2D	04/05/2024		4.6000	***	1.3000
Arsenic, Total	ug/L	MW-6D	04/04/2024		1.7000	*	1.3000
Barium, Total	ug/L	MW-11D	04/09/2024		60.8000		71.6273
Barium, Total	ug/L	MW-1D	04/09/2024		57.6000		71.6273
Barium, Total	ug/L	MW-2D	04/05/2024		68.9000		71.6273
Barium, Total	ug/L	MW-6D	04/04/2024		63.6000		71.6273
Beryllium, Total	ug/L	MW-11D	04/09/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-1D	04/09/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-2D	04/05/2024	ND	0.2000		0.2000
Beryllium, Total	ug/L	MW-6D	04/04/2024	ND	0.2000		0.2000
Cadmium, Total	ug/L	MW-11D	04/09/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-1D	04/09/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-2D	04/05/2024	ND	2.0000		2.0000
Cadmium, Total	ug/L	MW-6D	04/04/2024	ND	2.0000		2.0000
Chromium, Total	ug/L	MW-11D	04/09/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-1D	04/09/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-2D	04/05/2024	ND	10.0000		10.0000
Chromium, Total	ug/L	MW-6D	04/04/2024	ND	10.0000		10.0000
Cobalt, Total	ug/L	MW-11D	04/09/2024	ND	1.0000		1.2000
Cobalt, Total	ug/L	MW-1D	04/09/2024	ND	1.0000		1.2000
Cobalt, Total	ug/L	MW-2D	04/05/2024	ND	1.0000		1.2000
Cobalt, Total	ug/L	MW-6D	04/04/2024	ND	1.0000		1.2000
Fluoride	mg/L	MW-11D	04/09/2024		0.3400	***	0.1200
Fluoride	mg/L	MW-1D	04/09/2024		0.4200	***	0.1200
Fluoride	mg/L	MW-2D	04/05/2024		0.3400	***	0.1200
Fluoride	mg/L	MW-6D	04/04/2024		0.1700	***	0.1200
Lead, Total	ug/L	MW-11D	04/09/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-1D	04/09/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-2D	04/05/2024	ND	10.0000		10.0000
Lead, Total	ug/L	MW-6D	04/04/2024	ND	10.0000		10.0000
Lithium, Total	ug/L	MW-11D	04/09/2024		79.7000	***	20.0000
Lithium, Total	ug/L	MW-1D	04/09/2024		81.5000	***	20.0000
Lithium, Total	ug/L	MW-2D	04/05/2024		34.5000	***	20.0000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Lithium, Total	ug/L	MW-6D	04/04/2024		70.3000	***	20.0000
Mercury	ug/L	MW-11D	04/09/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-1D	04/09/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-2D	04/05/2024	ND	0.2000		2.0000
Mercury	ug/L	MW-6D	04/04/2024	ND	0.2000		2.0000
Molybdenum, Total	ug/L	MW-11D	04/09/2024		125.0000	***	10.0000
Molybdenum, Total	ug/L	MW-1D	04/09/2024		96.6000	***	10.0000
Molybdenum, Total	ug/L	MW-2D	04/05/2024		42.7000	***	10.0000
Molybdenum, Total	ug/L	MW-6D	04/04/2024		198.0000	***	10.0000
Selenium, Total	ug/L	MW-11D	04/09/2024	ND	1.0000		1.3000
Selenium, Total	ug/L	MW-1D	04/09/2024	ND	1.0000		1.3000
Selenium, Total	ug/L	MW-2D	04/05/2024	ND	1.0000		1.3000
Selenium, Total	ug/L	MW-6D	04/04/2024	ND	1.0000		1.3000
Thallium, Total	ug/L	MW-11D	04/09/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-1D	04/09/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-2D	04/05/2024	ND	1.0000		1.0000
Thallium, Total	ug/L	MW-6D	04/04/2024	ND	1.0000		1.0000
Total Radium	pCi/L	MW-11D	04/09/2024		1.6400		2.3087
Total Radium	pCi/L	MW-1D	04/09/2024		1.4400		2.3087
Total Radium	pCi/L	MW-2D	04/05/2024		1.3800		2.3087
Total Radium	pCi/L	MW-6D	04/04/2024		1.1900		2.3087

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table C-3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, Total	0	15	0.000	1	84	0.012
Arsenic, Total	1	15	0.067	40	84	0.476
Barium, Total	15	15	1.000	84	84	1.000
Beryllium, Total	0	12	0.000	0	60	0.000
Cadmium, Total	0	12	0.000	0	60	0.000
Chromium, Total	0	12	0.000	1	60	0.017
Cobalt, Total	1	14	0.071	2	80	0.025
Fluoride	6	15	0.400	88	88	1.000
Lead, Total	0	12	0.000	2	60	0.033
Lithium, Total	0	15	0.000	84	84	1.000
Mercury	0	11	0.000	0	60	0.000
Molybdenum, Total	0	15	0.000	84	84	1.000
Selenium, Total	7	14	0.500	0	84	0.000
Thallium, Total	0	12	0.000	0	60	0.000
Total Radium	9	14	0.643	79	84	0.940

N = Total number of measurements in all wells.
 Detect = Total number of detections in all wells.
 Proportion = Detect/N.

Table C-4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Arsenic, Total	1	15	0.067	4.373	4.373					2.326	non-norm	nonpar
Barium, Total	15	15	1.000	0.204	0.642					2.326	normal	normal
Beryllium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Cadmium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Chromium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Cobalt, Total	1	14	0.071	20.331	20.331					2.326	non-norm	nonpar
Fluoride	6	15	0.400	4.178	4.155					2.326	non-norm	nonpar
Lead, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Lithium, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Mercury	0	11	0.000	3.485	3.485					2.326	non-norm	nonpar
Molybdenum, Total	0	15	0.000	4.373	4.373					2.326	non-norm	nonpar
Selenium, Total	7	14	0.500	3.093	3.164					2.326	non-norm	nonpar
Thallium, Total	0	12	0.000	3.731	3.731					2.326	non-norm	nonpar
Total Radium	9	14	0.643	1.473	1.495					2.326	normal	normal

* - Distribution override for that constituent.
 Fit to distribution is confirmed if G <= critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table C-5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type	Conf
Antimony, Total	ug/L	0	15					1.0000	nonpar	*** 0.97
Arsenic, Total	ug/L	1	15					1.3000	nonpar	*** 0.97
Barium, Total	ug/L	15	15	58.4667	4.8601	0.0100	2.7079	71.6273	normal	*** 0.96
Beryllium, Total	ug/L	0	12					0.2000	nonpar	*** 0.96
Cadmium, Total	ug/L	0	12					2.0000	nonpar	*** 0.96
Chromium, Total	ug/L	0	12					10.0000	nonpar	*** 0.96
Cobalt, Total	ug/L	1	14					1.2000	nonpar	*** 0.97
Fluoride	mg/L	6	15					0.1200	nonpar	*** 0.97
Lead, Total	ug/L	0	12					10.0000	nonpar	*** 0.96
Lithium, Total	ug/L	0	15					20.0000	nonpar	*** 0.97
Mercury	ug/L	0	11					2.0000	nonpar	*** 0.95
Molybdenum, Total	ug/L	0	15					10.0000	nonpar	*** 0.97
Selenium, Total	ug/L	7	14					1.3000	nonpar	*** 0.97
Thallium, Total	ug/L	0	12					1.0000	nonpar	*** 0.96
Total Radium	pCi/L	9	14	0.6377	0.6099	0.0100	2.7400	2.3087	normal	*** 0.96

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table C-6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Selenium, Total	ug/L	MW-13D	05/07/2020	10.0000	< 10.0000	08/08/2019-04/10/2024	15	0.6177

N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Arsenic, Total	ug/L	MW-11D	04/20/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	06/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	08/12/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	09/30/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	12/01/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	01/31/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	05/25/2017		24.4000 *	1.3000
Arsenic, Total	ug/L	MW-11D	08/10/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-11D	05/22/2018		6.1000 *	1.3000
Arsenic, Total	ug/L	MW-11D	09/12/2018		5.3000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/08/2019		5.1000 *	1.3000
Arsenic, Total	ug/L	MW-11D	11/14/2019		5.0000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/07/2020		5.6000 *	1.3000
Arsenic, Total	ug/L	MW-11D	11/12/2020		4.6000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/17/2021		5.1000 *	1.3000
Arsenic, Total	ug/L	MW-11D	11/17/2021		6.2000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/12/2022		5.2000 *	1.3000
Arsenic, Total	ug/L	MW-11D	11/29/2022		5.0000 *	1.3000
Arsenic, Total	ug/L	MW-11D	05/03/2023		5.4000 *	1.3000
Arsenic, Total	ug/L	MW-11D	10/09/2023		4.9000 *	1.3000
Arsenic, Total	ug/L	MW-11D	04/09/2024		4.4000 *	1.3000
Arsenic, Total	ug/L	MW-1D	04/19/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	06/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	08/10/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	09/30/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	12/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	01/31/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	05/26/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	08/11/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-1D	05/23/2018		1.6000 *	1.3000
Arsenic, Total	ug/L	MW-1D	09/11/2018		1.6000 *	1.3000
Arsenic, Total	ug/L	MW-1D	05/08/2019		1.5000 *	1.3000
Arsenic, Total	ug/L	MW-1D	11/14/2019		3.6000 *	1.3000
Arsenic, Total	ug/L	MW-1D	05/05/2020		1.9000 *	1.3000
Arsenic, Total	ug/L	MW-1D	11/11/2020		4.2000 *	1.3000
Arsenic, Total	ug/L	MW-1D	05/25/2021		2.3000 *	1.3000
Arsenic, Total	ug/L	MW-1D	11/09/2021		2.1000 *	1.3000
Arsenic, Total	ug/L	MW-1D	05/10/2022		3.7000 *	1.3000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Arsenic, Total	ug/L	MW-1D	11/22/2022		2.5000 *	1.3000
Arsenic, Total	ug/L	MW-1D	04/19/2023		1.7000 *	1.3000
Arsenic, Total	ug/L	MW-1D	10/11/2023		2.7000 *	1.3000
Arsenic, Total	ug/L	MW-1D	04/09/2024		1.9000 *	1.3000
Arsenic, Total	ug/L	MW-2D	04/19/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	06/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	08/11/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	09/30/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	12/02/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	01/31/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	05/26/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	08/11/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-2D	05/22/2018		3.2000 *	1.3000
Arsenic, Total	ug/L	MW-2D	09/11/2018		3.9000 *	1.3000
Arsenic, Total	ug/L	MW-2D	05/09/2019		3.2000 *	1.3000
Arsenic, Total	ug/L	MW-2D	11/13/2019		3.7000 *	1.3000
Arsenic, Total	ug/L	MW-2D	05/05/2020		3.5000 *	1.3000
Arsenic, Total	ug/L	MW-2D	11/11/2020		4.0000 *	1.3000
Arsenic, Total	ug/L	MW-2D	05/11/2021		4.5000 *	1.3000
Arsenic, Total	ug/L	MW-2D	11/10/2021	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-2D	05/11/2022		3.7000 *	1.3000
Arsenic, Total	ug/L	MW-2D	11/15/2022		4.1000 *	1.3000
Arsenic, Total	ug/L	MW-2D	04/18/2023		3.8000 *	1.3000
Arsenic, Total	ug/L	MW-2D	10/10/2023		4.7000 *	1.3000
Arsenic, Total	ug/L	MW-2D	04/05/2024		4.6000 *	1.3000
Arsenic, Total	ug/L	MW-6D	04/20/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-6D	06/01/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-6D	08/11/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-6D	09/29/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-6D	12/01/2016	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-6D	01/30/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-6D	05/25/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-6D	08/10/2017	ND	10.0000	1.3000
Arsenic, Total	ug/L	MW-6D	05/22/2018	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	09/10/2018	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	05/08/2019	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	11/14/2019	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	05/08/2020	ND	1.0000	1.3000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result	Pred. Limit
Arsenic, Total	ug/L	MW-6D	11/10/2020	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	05/18/2021	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	11/09/2021	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	05/11/2022	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	11/15/2022	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	05/01/2023	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	10/10/2023	ND	1.0000	1.3000
Arsenic, Total	ug/L	MW-6D	04/04/2024		1.7000 *	1.3000
Fluoride	mg/L	MW-11D	04/20/2016		0.2600 *	0.1200
Fluoride	mg/L	MW-11D	06/02/2016		0.2300 *	0.1200
Fluoride	mg/L	MW-11D	08/12/2016		0.2100 *	0.1200
Fluoride	mg/L	MW-11D	09/30/2016		0.2300 *	0.1200
Fluoride	mg/L	MW-11D	12/01/2016		0.2200 *	0.1200
Fluoride	mg/L	MW-11D	01/31/2017		0.2400 *	0.1200
Fluoride	mg/L	MW-11D	05/25/2017		0.2500 *	0.1200
Fluoride	mg/L	MW-11D	08/10/2017		0.2300 *	0.1200
Fluoride	mg/L	MW-11D	09/28/2017		0.1900 *	0.1200
Fluoride	mg/L	MW-11D	05/22/2018		0.2000 *	0.1200
Fluoride	mg/L	MW-11D	09/12/2018		0.1700 *	0.1200
Fluoride	mg/L	MW-11D	05/08/2019		0.2000 *	0.1200
Fluoride	mg/L	MW-11D	11/14/2019		0.2000 *	0.1200
Fluoride	mg/L	MW-11D	05/07/2020		0.2400 *	0.1200
Fluoride	mg/L	MW-11D	11/12/2020		0.2500 *	0.1200
Fluoride	mg/L	MW-11D	05/17/2021		0.2500 *	0.1200
Fluoride	mg/L	MW-11D	11/17/2021		0.2300 *	0.1200
Fluoride	mg/L	MW-11D	05/12/2022		0.3000 *	0.1200
Fluoride	mg/L	MW-11D	11/29/2022		0.2800 *	0.1200
Fluoride	mg/L	MW-11D	05/03/2023		0.2800 *	0.1200
Fluoride	mg/L	MW-11D	10/09/2023		0.2800 *	0.1200
Fluoride	mg/L	MW-11D	04/09/2024		0.3400 *	0.1200
Fluoride	mg/L	MW-1D	04/19/2016		0.4400 *	0.1200
Fluoride	mg/L	MW-1D	06/02/2016		0.4400 *	0.1200
Fluoride	mg/L	MW-1D	08/10/2016		0.4200 *	0.1200
Fluoride	mg/L	MW-1D	09/30/2016		0.4600 *	0.1200
Fluoride	mg/L	MW-1D	12/02/2016		0.4600 *	0.1200
Fluoride	mg/L	MW-1D	01/31/2017		0.4100 *	0.1200
Fluoride	mg/L	MW-1D	05/26/2017		0.4200 *	0.1200
Fluoride	mg/L	MW-1D	08/11/2017		0.4200 *	0.1200

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 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-1D	09/28/2017	0.4200 *	0.1200
Fluoride	mg/L	MW-1D	05/23/2018	0.3600 *	0.1200
Fluoride	mg/L	MW-1D	09/11/2018	0.3200 *	0.1200
Fluoride	mg/L	MW-1D	05/08/2019	0.3500 *	0.1200
Fluoride	mg/L	MW-1D	11/14/2019	0.3700 *	0.1200
Fluoride	mg/L	MW-1D	05/05/2020	0.3700 *	0.1200
Fluoride	mg/L	MW-1D	11/11/2020	0.3700 *	0.1200
Fluoride	mg/L	MW-1D	05/25/2021	0.3100 *	0.1200
Fluoride	mg/L	MW-1D	11/09/2021	0.3000 *	0.1200
Fluoride	mg/L	MW-1D	05/10/2022	0.3200 *	0.1200
Fluoride	mg/L	MW-1D	11/22/2022	0.3800 *	0.1200
Fluoride	mg/L	MW-1D	04/19/2023	0.3400 *	0.1200
Fluoride	mg/L	MW-1D	10/11/2023	0.3200 *	0.1200
Fluoride	mg/L	MW-1D	04/09/2024	0.4200 *	0.1200
Fluoride	mg/L	MW-2D	04/19/2016	0.4200 *	0.1200
Fluoride	mg/L	MW-2D	06/02/2016	0.4100 *	0.1200
Fluoride	mg/L	MW-2D	08/11/2016	0.3800 *	0.1200
Fluoride	mg/L	MW-2D	09/30/2016	0.3900 *	0.1200
Fluoride	mg/L	MW-2D	12/02/2016	0.4100 *	0.1200
Fluoride	mg/L	MW-2D	01/31/2017	0.3600 *	0.1200
Fluoride	mg/L	MW-2D	05/26/2017	0.3800 *	0.1200
Fluoride	mg/L	MW-2D	08/11/2017	0.3800 *	0.1200
Fluoride	mg/L	MW-2D	09/27/2017	0.3600 *	0.1200
Fluoride	mg/L	MW-2D	05/22/2018	0.3200 *	0.1200
Fluoride	mg/L	MW-2D	09/11/2018	0.2900 *	0.1200
Fluoride	mg/L	MW-2D	05/09/2019	0.3200 *	0.1200
Fluoride	mg/L	MW-2D	11/13/2019	0.3300 *	0.1200
Fluoride	mg/L	MW-2D	05/05/2020	0.3500 *	0.1200
Fluoride	mg/L	MW-2D	11/11/2020	0.3400 *	0.1200
Fluoride	mg/L	MW-2D	05/11/2021	0.1900 *	0.1200
Fluoride	mg/L	MW-2D	11/10/2021	0.2700 *	0.1200
Fluoride	mg/L	MW-2D	05/11/2022	0.2900 *	0.1200
Fluoride	mg/L	MW-2D	11/15/2022	0.2800 *	0.1200
Fluoride	mg/L	MW-2D	04/18/2023	0.3200 *	0.1200
Fluoride	mg/L	MW-2D	10/10/2023	0.3100 *	0.1200
Fluoride	mg/L	MW-2D	04/05/2024	0.3400 *	0.1200
Fluoride	mg/L	MW-6D	04/20/2016	0.2000 *	0.1200
Fluoride	mg/L	MW-6D	06/01/2016	0.1800 *	0.1200

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Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Fluoride	mg/L	MW-6D	08/11/2016	0.1700 *	0.1200
Fluoride	mg/L	MW-6D	09/29/2016	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	12/01/2016	0.2000 *	0.1200
Fluoride	mg/L	MW-6D	01/30/2017	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	05/25/2017	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	08/10/2017	0.1900 *	0.1200
Fluoride	mg/L	MW-6D	09/27/2017	0.1900 *	0.1200
Fluoride	mg/L	MW-6D	05/22/2018	0.1200	0.1200
Fluoride	mg/L	MW-6D	09/10/2018	0.1200	0.1200
Fluoride	mg/L	MW-6D	05/08/2019	0.1600 *	0.1200
Fluoride	mg/L	MW-6D	11/14/2019	0.1400 *	0.1200
Fluoride	mg/L	MW-6D	05/08/2020	0.1300 *	0.1200
Fluoride	mg/L	MW-6D	11/10/2020	0.1700 *	0.1200
Fluoride	mg/L	MW-6D	05/18/2021	0.1600 *	0.1200
Fluoride	mg/L	MW-6D	11/09/2021	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	05/11/2022	0.2000 *	0.1200
Fluoride	mg/L	MW-6D	11/15/2022	0.1800 *	0.1200
Fluoride	mg/L	MW-6D	05/01/2023	0.2200 *	0.1200
Fluoride	mg/L	MW-6D	10/10/2023	0.1700 *	0.1200
Fluoride	mg/L	MW-6D	04/04/2024	0.1700 *	0.1200
Lithium, Total	ug/L	MW-11D	04/20/2016	102.0000 *	20.0000
Lithium, Total	ug/L	MW-11D	06/02/2016	99.6000 *	20.0000
Lithium, Total	ug/L	MW-11D	08/12/2016	91.7000 *	20.0000
Lithium, Total	ug/L	MW-11D	09/30/2016	95.9000 *	20.0000
Lithium, Total	ug/L	MW-11D	12/01/2016	97.4000 *	20.0000
Lithium, Total	ug/L	MW-11D	01/31/2017	88.3000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/25/2017	134.0000 *	20.0000
Lithium, Total	ug/L	MW-11D	08/10/2017	98.8000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/22/2018	91.9000 *	20.0000
Lithium, Total	ug/L	MW-11D	09/12/2018	83.0000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/08/2019	93.0000 *	20.0000
Lithium, Total	ug/L	MW-11D	11/14/2019	93.0000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/07/2020	94.1000 *	20.0000
Lithium, Total	ug/L	MW-11D	11/12/2020	85.7000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/17/2021	84.1000 *	20.0000
Lithium, Total	ug/L	MW-11D	11/17/2021	82.7000 *	20.0000
Lithium, Total	ug/L	MW-11D	05/12/2022	88.1000 *	20.0000
Lithium, Total	ug/L	MW-11D	11/29/2022	81.9000 *	20.0000

* - Significantly increased over background.
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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-11D	05/03/2023	79.2000 *	20.0000
Lithium, Total	ug/L	MW-11D	10/09/2023	83.2000 *	20.0000
Lithium, Total	ug/L	MW-11D	04/09/2024	79.7000 *	20.0000
Lithium, Total	ug/L	MW-1D	04/19/2016	108.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	06/02/2016	99.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	08/10/2016	91.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	09/30/2016	90.9000 *	20.0000
Lithium, Total	ug/L	MW-1D	12/02/2016	90.8000 *	20.0000
Lithium, Total	ug/L	MW-1D	01/31/2017	88.6000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/26/2017	94.2000 *	20.0000
Lithium, Total	ug/L	MW-1D	08/11/2017	92.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/23/2018	99.2000 *	20.0000
Lithium, Total	ug/L	MW-1D	09/11/2018	89.0000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/08/2019	99.7000 *	20.0000
Lithium, Total	ug/L	MW-1D	11/14/2019	90.2000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/05/2020	94.3000 *	20.0000
Lithium, Total	ug/L	MW-1D	11/11/2020	83.2000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/25/2021	82.6000 *	20.0000
Lithium, Total	ug/L	MW-1D	11/09/2021	93.6000 *	20.0000
Lithium, Total	ug/L	MW-1D	05/10/2022	84.5000 *	20.0000
Lithium, Total	ug/L	MW-1D	11/22/2022	80.9000 *	20.0000
Lithium, Total	ug/L	MW-1D	04/19/2023	88.9000 *	20.0000
Lithium, Total	ug/L	MW-1D	10/11/2023	83.3000 *	20.0000
Lithium, Total	ug/L	MW-1D	04/09/2024	81.5000 *	20.0000
Lithium, Total	ug/L	MW-2D	04/19/2016	115.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	06/02/2016	110.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	08/11/2016	109.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	09/30/2016	106.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	12/02/2016	108.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	01/31/2017	105.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/26/2017	106.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	08/11/2017	102.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/22/2018	91.1000 *	20.0000
Lithium, Total	ug/L	MW-2D	09/11/2018	69.2000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/09/2019	86.5000 *	20.0000
Lithium, Total	ug/L	MW-2D	11/13/2019	76.5000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/05/2020	74.4000 *	20.0000
Lithium, Total	ug/L	MW-2D	11/11/2020	52.7000 *	20.0000

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 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Lithium, Total	ug/L	MW-2D	05/11/2021	51.0000 *	20.0000
Lithium, Total	ug/L	MW-2D	11/10/2021	49.6000 *	20.0000
Lithium, Total	ug/L	MW-2D	05/11/2022	51.2000 *	20.0000
Lithium, Total	ug/L	MW-2D	11/15/2022	49.2000 *	20.0000
Lithium, Total	ug/L	MW-2D	04/18/2023	47.9000 *	20.0000
Lithium, Total	ug/L	MW-2D	10/10/2023	34.7000 *	20.0000
Lithium, Total	ug/L	MW-2D	04/05/2024	34.5000 *	20.0000
Lithium, Total	ug/L	MW-6D	04/20/2016	155.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	06/01/2016	134.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	08/11/2016	138.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	09/29/2016	137.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	12/01/2016	132.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	01/30/2017	132.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/25/2017	134.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	08/10/2017	121.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/22/2018	105.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	09/10/2018	90.6000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/08/2019	113.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	11/14/2019	97.3000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/08/2020	99.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	11/10/2020	81.7000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/18/2021	84.5000 *	20.0000
Lithium, Total	ug/L	MW-6D	11/09/2021	86.3000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/11/2022	80.7000 *	20.0000
Lithium, Total	ug/L	MW-6D	11/15/2022	81.2000 *	20.0000
Lithium, Total	ug/L	MW-6D	05/01/2023	70.0000 *	20.0000
Lithium, Total	ug/L	MW-6D	10/10/2023	71.1000 *	20.0000
Lithium, Total	ug/L	MW-6D	04/04/2024	70.3000 *	20.0000
Molybdenum, Total	ug/L	MW-11D	04/20/2016	202.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	06/02/2016	200.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	08/12/2016	189.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	09/30/2016	189.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	12/01/2016	191.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	01/31/2017	182.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/25/2017	183.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	08/10/2017	194.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/22/2018	189.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	09/12/2018	156.0000 *	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-11D	05/08/2019	175.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	11/14/2019	162.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/07/2020	176.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	11/12/2020	170.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/17/2021	173.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	11/17/2021	183.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/12/2022	169.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	11/29/2022	159.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	05/03/2023	149.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	10/09/2023	133.0000 *	10.0000
Molybdenum, Total	ug/L	MW-11D	04/09/2024	125.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	04/19/2016	108.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	06/02/2016	118.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	08/10/2016	128.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	09/30/2016	126.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	12/02/2016	123.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	01/31/2017	125.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/26/2017	119.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	08/11/2017	118.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/23/2018	107.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	09/11/2018	111.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/08/2019	122.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	11/14/2019	118.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/05/2020	119.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	11/11/2020	113.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/25/2021	106.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	11/09/2021	112.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	05/10/2022	104.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	11/22/2022	101.0000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	04/19/2023	96.6000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	10/11/2023	92.1000 *	10.0000
Molybdenum, Total	ug/L	MW-1D	04/09/2024	96.6000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	04/19/2016	103.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	06/02/2016	107.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	08/11/2016	102.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	09/30/2016	99.4000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	12/02/2016	110.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	01/31/2017	117.0000 *	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

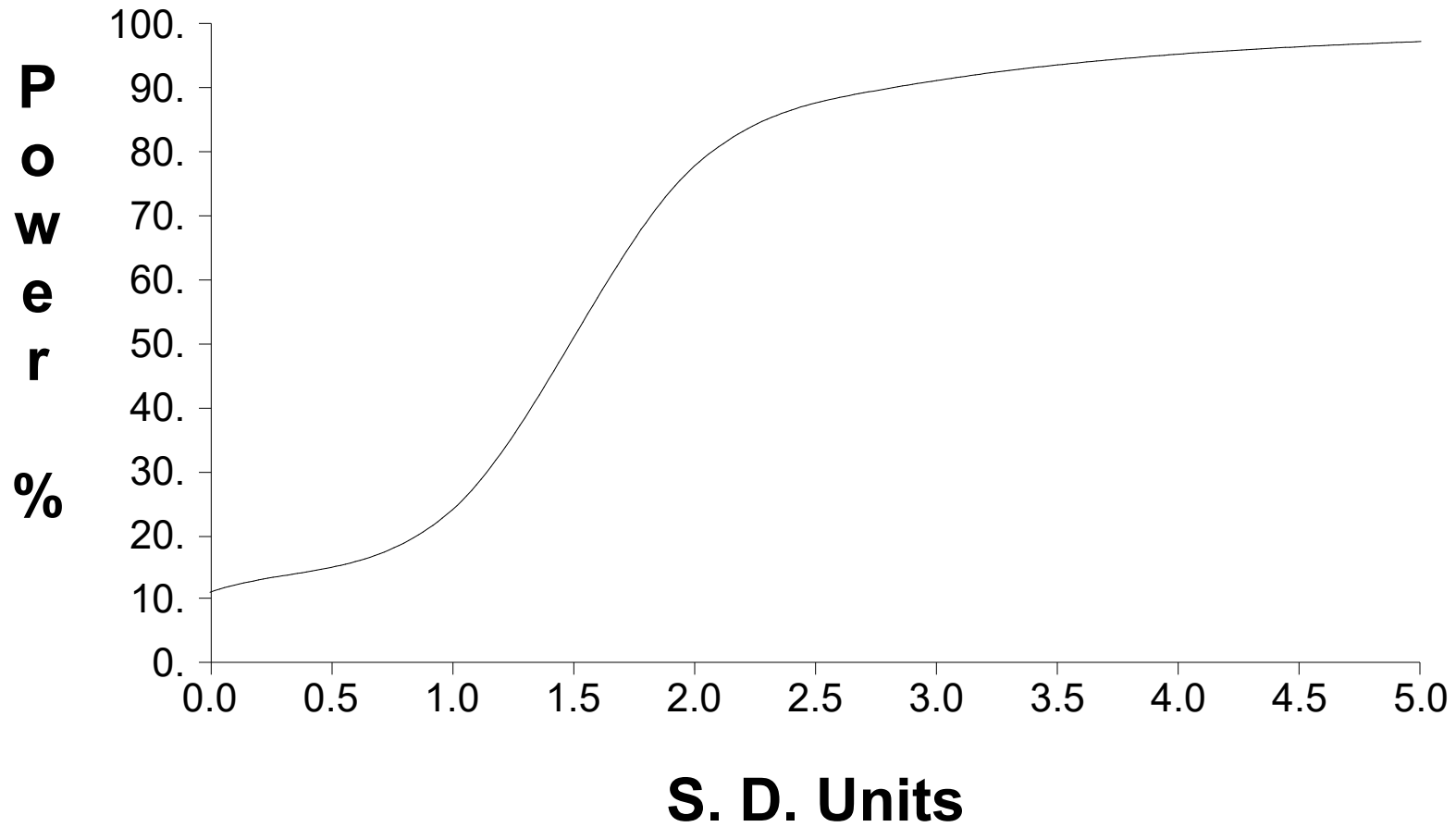
Table C-7

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date	Result	Pred. Limit
Molybdenum, Total	ug/L	MW-2D	05/26/2017	120.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	08/11/2017	120.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/22/2018	128.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	09/11/2018	101.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/09/2019	94.8000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	11/13/2019	93.3000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/05/2020	92.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	11/11/2020	76.0000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/11/2021	67.5000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	11/10/2021	67.2000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	05/11/2022	59.6000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	11/15/2022	52.9000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	04/18/2023	47.6000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	10/10/2023	47.8000 *	10.0000
Molybdenum, Total	ug/L	MW-2D	04/05/2024	42.7000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	04/20/2016	184.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	06/01/2016	185.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	08/11/2016	188.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	09/29/2016	180.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	12/01/2016	188.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	01/30/2017	194.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/25/2017	208.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	08/10/2017	213.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/22/2018	208.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	09/10/2018	190.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/08/2019	198.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	11/14/2019	175.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/08/2020	188.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	11/10/2020	210.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/18/2021	219.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	11/09/2021	244.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/11/2022	209.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	11/15/2022	210.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	05/01/2023	212.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	10/10/2023	203.0000 *	10.0000
Molybdenum, Total	ug/L	MW-6D	04/04/2024	198.0000 *	10.0000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



Appendix C: Statistical Analyses – 95% Lower Confidence Limit Documentation

October 2023

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Antimony, Total	ug/L	MW-10S	4	2.150	0.252	1.176	1.854	2.446	6.000	
Antimony, Total	ug/L	MW-11S	4	1.375	0.050	1.176	1.316	1.434	6.000	dec
Antimony, Total	ug/L	MW-12S	4	1.550	0.173	1.176	1.346	1.754	6.000	
Antimony, Total	ug/L	MW-1S	4	1.925	0.556	1.176	1.271	2.579	6.000	
Antimony, Total	ug/L	MW-2S	4	0.500	0.000	1.176	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-3S	4	0.650	0.300	1.176	0.297	1.003	6.000	
Antimony, Total	ug/L	MW-6S	4	1.650	0.915	1.176	0.574	2.726	6.000	
Antimony, Total	ug/L	MW-7S	4	2.675	0.287	1.176	2.337	3.013	6.000	
Arsenic, Total	ug/L	MW-10S	4	0.500	0.000	1.176	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-11S	4	72.450	23.541	1.176	44.759	100.141	10.000	dec
Arsenic, Total	ug/L	MW-12S	4	2.475	1.688	1.176	0.489	4.461	10.000	**
Arsenic, Total	ug/L	MW-1S	4	4.875	2.175	1.176	2.317	7.433	10.000	
Arsenic, Total	ug/L	MW-2S	4	9.825	4.368	1.176	4.687	14.963	10.000	
Arsenic, Total	ug/L	MW-3S	4	0.500	0.000	1.176	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-6S	4	0.500	0.000	1.176	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-7S	4	0.500	0.000	1.176	0.500	0.500	10.000	
Barium, Total	ug/L	MW-10S	4	76.725	6.325	1.176	69.285	84.165	2000.000	
Barium, Total	ug/L	MW-11S	4	105.850	32.987	1.176	67.048	144.652	2000.000	inc
Barium, Total	ug/L	MW-12S	4	125.750	7.136	1.176	117.356	134.144	2000.000	
Barium, Total	ug/L	MW-1S	4	84.050	19.528	1.176	61.080	107.020	2000.000	
Barium, Total	ug/L	MW-2S	4	127.850	34.652	1.176	87.089	168.611	2000.000	
Barium, Total	ug/L	MW-3S	4	109.250	25.493	1.176	79.263	139.237	2000.000	
Barium, Total	ug/L	MW-6S	4	85.425	8.587	1.176	75.325	95.525	2000.000	dec
Barium, Total	ug/L	MW-7S	4	73.000	22.435	1.176	46.610	99.390	2000.000	
Beryllium, Total	ug/L	MW-10S	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-11S	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-12S	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-1S	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-2S	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-3S	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-6S	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-7S	4	2.000	0.000	1.176	2.000	2.000	4.000	
Cadmium, Total	ug/L	MW-10S	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-11S	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-12S	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-1S	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-2S	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-3S	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-6S	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-7S	4	1.000	0.000	1.176	1.000	1.000	5.000	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Chromium, Total	ug/L	MW-10S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-11S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-12S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-3S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-7S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-10S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-11S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-12S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-1S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-3S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-7S	4	1.850	1.561	1.176	0.014	3.686	6.000		
Fluoride	mg/L	MW-10S	4	0.210	0.018	1.176	0.189	0.231	4.000	dec	
Fluoride	mg/L	MW-11S	4	0.183	0.028	1.176	0.150	0.215	4.000	dec	
Fluoride	mg/L	MW-12S	4	0.227	0.019	1.176	0.205	0.250	4.000	dec	
Fluoride	mg/L	MW-1S	4	0.135	0.066	1.176	0.058	0.212	4.000	dec	
Fluoride	mg/L	MW-2S	4	0.148	0.015	1.176	0.130	0.165	4.000	dec	
Fluoride	mg/L	MW-3S	4	0.238	0.048	1.176	0.181	0.294	4.000		
Fluoride	mg/L	MW-6S	4	0.235	0.030	1.176	0.200	0.270	4.000		
Fluoride	mg/L	MW-7S	4	0.050	0.000	1.176	0.050	0.050	4.000		
Lead, Total	ug/L	MW-10S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-12S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-3S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-7S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-10S	4	96.575	8.273	1.176	86.844	106.306	40.000		**
Lithium, Total	ug/L	MW-11S	4	103.600	38.983	1.176	57.744	149.456	40.000		**
Lithium, Total	ug/L	MW-12S	4	120.425	17.422	1.176	99.932	140.918	40.000	inc	**
Lithium, Total	ug/L	MW-1S	4	82.025	15.568	1.176	63.712	100.338	40.000		**
Lithium, Total	ug/L	MW-2S	4	43.925	7.894	1.176	34.639	53.211	40.000	dec	
Lithium, Total	ug/L	MW-3S	4	13.675	7.350	1.176	5.029	22.321	40.000	dec	
Lithium, Total	ug/L	MW-6S	4	77.975	21.612	1.176	52.553	103.397	40.000		**
Lithium, Total	ug/L	MW-7S	4	38.625	10.938	1.176	25.759	51.491	40.000	dec	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Mercury	ug/L	MW-10S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-11S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-12S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-1S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-2S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-3S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-6S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-7S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Molybdenum, Total	ug/L	MW-10S	4	71.250	16.703	1.176	51.603	90.897	100.000	dec
Molybdenum, Total	ug/L	MW-11S	4	65.775	11.058	1.176	52.767	78.783	100.000	dec
Molybdenum, Total	ug/L	MW-12S	4	27.300	10.602	1.176	14.829	39.771	100.000	dec
Molybdenum, Total	ug/L	MW-1S	4	25.375	8.573	1.176	15.291	35.459	100.000	dec
Molybdenum, Total	ug/L	MW-2S	4	7.100	4.200	1.176	2.160	12.040	100.000	dec
Molybdenum, Total	ug/L	MW-3S	4	42.600	15.049	1.176	24.899	60.301	100.000	
Molybdenum, Total	ug/L	MW-6S	4	116.050	39.762	1.176	69.279	162.821	100.000	
Molybdenum, Total	ug/L	MW-7S	4	36.050	9.480	1.176	24.898	47.202	100.000	dec
Selenium, Total	ug/L	MW-10S	4	1.800	0.497	1.176	1.216	2.384	50.000	
Selenium, Total	ug/L	MW-11S	4	11.050	2.207	1.176	8.454	13.646	50.000	
Selenium, Total	ug/L	MW-12S	4	20.150	10.307	1.176	8.026	32.274	50.000	
Selenium, Total	ug/L	MW-1S	4	23.000	6.090	1.176	15.836	30.164	50.000	
Selenium, Total	ug/L	MW-2S	4	15.400	10.849	1.176	2.639	28.161	50.000	
Selenium, Total	ug/L	MW-3S	4	6.875	7.919	1.176	0.000	16.190	50.000	
Selenium, Total	ug/L	MW-6S	4	17.400	14.173	1.176	0.728	34.072	50.000	
Selenium, Total	ug/L	MW-7S	4	23.200	4.101	1.176	18.376	28.024	50.000	inc
Thallium, Total	ug/L	MW-10S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-11S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-12S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-1S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-2S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-3S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-6S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-7S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Total Radium	pCi/L	MW-10S	4	1.056	0.331	1.176	0.666	1.445	5.000	
Total Radium	pCi/L	MW-11S	4	0.738	0.057	1.176	0.671	0.806	5.000	
Total Radium	pCi/L	MW-12S	4	0.926	0.281	1.176	0.595	1.258	5.000	
Total Radium	pCi/L	MW-1S	4	0.815	0.000	1.176	0.815	0.815	5.000	
Total Radium	pCi/L	MW-2S	4	0.728	0.015	1.176	0.710	0.745	5.000	
Total Radium	pCi/L	MW-3S	4	0.850	0.000	1.176	0.850	0.850	5.000	
Total Radium	pCi/L	MW-6S	4	1.095	0.237	1.176	0.816	1.373	5.000	
Total Radium	pCi/L	MW-7S	4	0.818	0.233	1.176	0.544	1.092	5.000	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 7 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-10S	7	2.200	0.480	0.734	1.848	2.552	6.000		
Antimony, Total	ug/L	MW-11S	7	1.429	0.095	0.734	1.359	1.498	6.000	dec	
Antimony, Total	ug/L	MW-12S	7	1.457	0.190	0.734	1.317	1.597	6.000		
Antimony, Total	ug/L	MW-1S	7	2.043	0.547	0.734	1.641	2.445	6.000		
Antimony, Total	ug/L	MW-2S	7	0.500	0.000	0.734	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-3S	7	0.586	0.227	0.734	0.419	0.752	6.000		
Antimony, Total	ug/L	MW-6S	7	1.514	0.679	0.734	1.016	2.013	6.000		
Antimony, Total	ug/L	MW-7S	7	2.900	0.473	0.734	2.553	3.247	6.000		
Arsenic, Total	ug/L	MW-10S	7	0.500	0.000	0.734	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-11S	7	92.686	32.065	0.734	69.146	116.225	10.000	dec	**
Arsenic, Total	ug/L	MW-12S	7	2.529	1.694	0.734	1.285	3.772	10.000		
Arsenic, Total	ug/L	MW-1S	7	4.971	1.741	0.734	3.693	6.250	10.000		
Arsenic, Total	ug/L	MW-2S	7	10.614	3.544	0.734	8.012	13.216	10.000		
Arsenic, Total	ug/L	MW-3S	7	0.500	0.000	0.734	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-6S	7	0.500	0.000	0.734	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-7S	7	0.943	0.783	0.734	0.368	1.518	10.000		
Barium, Total	ug/L	MW-10S	7	83.786	9.938	0.734	76.490	91.081	2000.000		
Barium, Total	ug/L	MW-11S	7	109.100	27.947	0.734	88.584	129.616	2000.000	inc	
Barium, Total	ug/L	MW-12S	7	120.200	11.705	0.734	111.607	128.793	2000.000		
Barium, Total	ug/L	MW-1S	7	82.529	16.467	0.734	70.440	94.617	2000.000		
Barium, Total	ug/L	MW-2S	7	125.771	26.648	0.734	106.209	145.334	2000.000		
Barium, Total	ug/L	MW-3S	7	103.614	21.714	0.734	87.674	119.555	2000.000		
Barium, Total	ug/L	MW-6S	7	98.386	17.615	0.734	85.455	111.317	2000.000		
Barium, Total	ug/L	MW-7S	7	78.743	21.259	0.734	63.137	94.349	2000.000	dec	
Beryllium, Total	ug/L	MW-10S	7	2.000	0.000	0.734	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-11S	7	2.000	0.000	0.734	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-12S	7	2.000	0.000	0.734	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-1S	7	2.000	0.000	0.734	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-2S	3								*
Beryllium, Total	ug/L	MW-3S	7	2.000	0.000	0.734	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-6S	7	2.000	0.000	0.734	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-7S	7	2.000	0.000	0.734	2.000	2.000	4.000		
Cadmium, Total	ug/L	MW-10S	7	1.000	0.000	0.734	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-11S	7	1.000	0.000	0.734	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-12S	7	1.000	0.000	0.734	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1S	7	1.000	0.000	0.734	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-2S	3								*
Cadmium, Total	ug/L	MW-3S	7	1.000	0.000	0.734	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6S	7	1.000	0.000	0.734	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-7S	7	1.000	0.000	0.734	1.000	1.000	5.000		

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 LCL = Lower Confidence Limit
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Table 1

Confidence Intervals for Comparing the Mean of the Last 7 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Chromium, Total	ug/L	MW-10S	7	5.000	0.000	0.734	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-11S	7	5.000	0.000	0.734	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-12S	7	5.000	0.000	0.734	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1S	7	5.000	0.000	0.734	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2S	3								*
Chromium, Total	ug/L	MW-3S	7	5.000	0.000	0.734	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6S	7	5.000	0.000	0.734	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-7S	7	5.000	0.000	0.734	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-10S	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-11S	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-12S	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-1S	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2S	6	0.500	0.000	0.822	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-3S	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6S	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-7S	7	1.529	1.319	0.734	0.560	2.497	6.000		
Fluoride	mg/L	MW-10S	7	0.230	0.036	0.734	0.204	0.256	4.000	dec	
Fluoride	mg/L	MW-11S	7	0.187	0.027	0.734	0.167	0.207	4.000	dec	
Fluoride	mg/L	MW-12S	7	0.241	0.030	0.734	0.220	0.263	4.000	dec	
Fluoride	mg/L	MW-1S	7	0.137	0.072	0.734	0.084	0.190	4.000	dec	
Fluoride	mg/L	MW-2S	7	0.144	0.019	0.734	0.130	0.158	4.000		
Fluoride	mg/L	MW-3S	7	0.276	0.067	0.734	0.227	0.325	4.000		
Fluoride	mg/L	MW-6S	7	0.229	0.035	0.734	0.203	0.254	4.000		
Fluoride	mg/L	MW-7S	7	0.050	0.000	0.734	0.050	0.050	4.000		
Lead, Total	ug/L	MW-10S	7	5.000	0.000	0.734	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11S	7	5.000	0.000	0.734	5.000	5.000	15.000		
Lead, Total	ug/L	MW-12S	7	5.000	0.000	0.734	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1S	7	5.000	0.000	0.734	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2S	3								*
Lead, Total	ug/L	MW-3S	7	5.000	0.000	0.734	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6S	7	5.000	0.000	0.734	5.000	5.000	15.000		
Lead, Total	ug/L	MW-7S	7	5.000	0.000	0.734	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-10S	7	99.329	8.765	0.734	92.894	105.763	40.000		**
Lithium, Total	ug/L	MW-11S	7	110.771	30.033	0.734	88.724	132.819	40.000		**
Lithium, Total	ug/L	MW-12S	7	121.386	13.316	0.734	111.611	131.161	40.000	inc	**
Lithium, Total	ug/L	MW-1S	7	87.414	18.288	0.734	73.989	100.840	40.000		**
Lithium, Total	ug/L	MW-2S	7	50.857	14.012	0.734	40.571	61.143	40.000		**
Lithium, Total	ug/L	MW-3S	7	14.443	7.603	0.734	8.861	20.025	40.000	dec	**
Lithium, Total	ug/L	MW-6S	7	79.957	16.079	0.734	68.153	91.761	40.000		**
Lithium, Total	ug/L	MW-7S	7	34.714	9.352	0.734	27.849	41.579	40.000	dec	

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Table 1

Confidence Intervals for Comparing the Mean of the Last 7 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-10S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Mercury	ug/L	MW-11S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Mercury	ug/L	MW-12S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Mercury	ug/L	MW-1S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Mercury	ug/L	MW-2S	3								*
Mercury	ug/L	MW-3S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Mercury	ug/L	MW-6S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Mercury	ug/L	MW-7S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-10S	7	79.971	16.470	0.734	67.881	92.062	100.000	dec	
Molybdenum, Total	ug/L	MW-11S	7	74.914	20.775	0.734	59.663	90.166	100.000	dec	
Molybdenum, Total	ug/L	MW-12S	7	39.471	20.230	0.734	24.620	54.323	100.000	dec	
Molybdenum, Total	ug/L	MW-1S	7	28.586	13.368	0.734	18.772	38.399	100.000	dec	
Molybdenum, Total	ug/L	MW-2S	7	8.314	4.237	0.734	5.204	11.424	100.000		
Molybdenum, Total	ug/L	MW-3S	7	50.114	16.803	0.734	37.779	62.450	100.000		
Molybdenum, Total	ug/L	MW-6S	7	123.271	36.745	0.734	96.297	150.246	100.000		
Molybdenum, Total	ug/L	MW-7S	7	43.229	15.126	0.734	32.124	54.333	100.000	dec	
Selenium, Total	ug/L	MW-10S	7	3.257	4.095	0.734	0.251	6.263	50.000		
Selenium, Total	ug/L	MW-11S	7	9.957	3.611	0.734	7.307	12.608	50.000		
Selenium, Total	ug/L	MW-12S	7	17.857	7.931	0.734	12.035	23.679	50.000		
Selenium, Total	ug/L	MW-1S	7	20.671	7.593	0.734	15.097	26.246	50.000		
Selenium, Total	ug/L	MW-2S	7	15.057	10.494	0.734	7.353	22.761	50.000		
Selenium, Total	ug/L	MW-3S	7	4.914	6.370	0.734	0.238	9.590	50.000		
Selenium, Total	ug/L	MW-6S	7	14.429	10.933	0.734	6.403	22.454	50.000		
Selenium, Total	ug/L	MW-7S	7	24.014	8.891	0.734	17.488	30.541	50.000	inc	
Thallium, Total	ug/L	MW-10S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-11S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-12S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-1S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-2S	3								*
Thallium, Total	ug/L	MW-3S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-6S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-7S	7	1.000	0.000	0.734	1.000	1.000	2.000		
Total Radium	pCi/L	MW-10S	7	1.250	0.406	0.734	0.952	1.548	5.000		
Total Radium	pCi/L	MW-11S	7	0.768	0.090	0.734	0.702	0.834	5.000		
Total Radium	pCi/L	MW-12S	7	0.850	0.239	0.734	0.674	1.026	5.000		
Total Radium	pCi/L	MW-1S	7	0.834	0.051	0.734	0.797	0.871	5.000		
Total Radium	pCi/L	MW-2S	7	1.177	0.909	0.734	0.510	1.844	5.000		
Total Radium	pCi/L	MW-3S	7	0.836	0.038	0.734	0.808	0.863	5.000		
Total Radium	pCi/L	MW-6S	7	1.102	0.302	0.734	0.881	1.324	5.000		
Total Radium	pCi/L	MW-7S	7	1.200	0.976	0.734	0.483	1.916	5.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-10S	8	2.100	0.526	0.670	1.747	2.453	6.000	dec	
Antimony, Total	ug/L	MW-11S	8	1.463	0.130	0.670	1.375	1.550	6.000		
Antimony, Total	ug/L	MW-12S	8	1.450	0.177	0.670	1.331	1.569	6.000		
Antimony, Total	ug/L	MW-1S	8	2.113	0.544	0.670	1.748	2.477	6.000		
Antimony, Total	ug/L	MW-2S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-3S	8	0.575	0.212	0.670	0.433	0.717	6.000		
Antimony, Total	ug/L	MW-6S	8	1.700	0.819	0.670	1.151	2.249	6.000		
Antimony, Total	ug/L	MW-7S	8	2.850	0.460	0.670	2.542	3.158	6.000		
Arsenic, Total	ug/L	MW-10S	8	0.500	0.000	0.670	0.500	0.500	10.000	dec	**
Arsenic, Total	ug/L	MW-11S	8	91.050	30.045	0.670	70.926	111.174	10.000		
Arsenic, Total	ug/L	MW-12S	8	2.438	1.589	0.670	1.373	3.502	10.000		
Arsenic, Total	ug/L	MW-1S	8	4.988	1.613	0.670	3.907	6.068	10.000		
Arsenic, Total	ug/L	MW-2S	8	11.163	3.629	0.670	8.732	13.593	10.000		
Arsenic, Total	ug/L	MW-3S	8	0.500	0.000	0.670	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-6S	8	0.500	0.000	0.670	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-7S	8	0.888	0.741	0.670	0.391	1.384	10.000		
Barium, Total	ug/L	MW-10S	8	81.688	10.949	0.670	74.354	89.021	2000.000	inc	
Barium, Total	ug/L	MW-11S	8	106.138	27.197	0.670	87.921	124.354	2000.000		
Barium, Total	ug/L	MW-12S	8	121.550	11.490	0.670	113.854	129.246	2000.000		
Barium, Total	ug/L	MW-1S	8	81.213	15.693	0.670	70.701	91.724	2000.000		
Barium, Total	ug/L	MW-2S	8	134.425	34.752	0.670	111.147	157.703	2000.000		
Barium, Total	ug/L	MW-3S	8	107.038	22.313	0.670	92.092	121.983	2000.000		
Barium, Total	ug/L	MW-6S	8	94.513	19.646	0.670	81.353	107.672	2000.000		
Barium, Total	ug/L	MW-7S	8	76.813	20.425	0.670	63.132	90.493	2000.000		
Beryllium, Total	ug/L	MW-10S	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-11S	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-12S	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-1S	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-2S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-3S	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-6S	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-7S	8	2.000	0.000	0.670	2.000	2.000	4.000		
Cadmium, Total	ug/L	MW-10S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-11S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-12S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-2S	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-3S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-7S	8	1.000	0.000	0.670	1.000	1.000	5.000		

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 LCL = Lower Confidence Limit
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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Chromium, Total	ug/L	MW-10S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-11S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-12S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-3S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-7S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-10S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-11S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-12S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-1S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2S	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-3S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-7S	8	1.400	1.274	0.670	0.547	2.253	6.000		
Fluoride	mg/L	MW-10S	8	0.246	0.057	0.670	0.208	0.284	4.000	dec	
Fluoride	mg/L	MW-11S	8	0.193	0.029	0.670	0.173	0.212	4.000	dec	
Fluoride	mg/L	MW-12S	8	0.238	0.030	0.670	0.218	0.257	4.000	dec	
Fluoride	mg/L	MW-1S	8	0.153	0.080	0.670	0.099	0.206	4.000	dec	
Fluoride	mg/L	MW-2S	8	0.141	0.020	0.670	0.128	0.154	4.000		
Fluoride	mg/L	MW-3S	8	0.283	0.065	0.670	0.239	0.326	4.000		
Fluoride	mg/L	MW-6S	8	0.221	0.038	0.670	0.196	0.247	4.000		
Fluoride	mg/L	MW-7S	8	0.050	0.000	0.670	0.050	0.050	4.000		
Lead, Total	ug/L	MW-10S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-12S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-3S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-7S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-10S	8	96.163	12.085	0.670	88.068	104.257	40.000		**
Lithium, Total	ug/L	MW-11S	8	110.800	27.805	0.670	92.176	129.424	40.000		**
Lithium, Total	ug/L	MW-12S	8	120.838	12.425	0.670	112.515	129.160	40.000	inc	**
Lithium, Total	ug/L	MW-1S	8	91.988	21.307	0.670	77.716	106.259	40.000		**
Lithium, Total	ug/L	MW-2S	8	56.075	19.649	0.670	42.914	69.236	40.000	dec	**
Lithium, Total	ug/L	MW-3S	8	15.675	7.855	0.670	10.414	20.936	40.000	dec	**
Lithium, Total	ug/L	MW-6S	8	72.650	25.471	0.670	55.589	89.711	40.000		**
Lithium, Total	ug/L	MW-7S	8	34.275	8.747	0.670	28.416	40.134	40.000	dec	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Mercury	ug/L	MW-10S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-11S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-12S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-1S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-2S	4	0.100	0.000	1.176	0.100	0.100	2.000	
Mercury	ug/L	MW-3S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-6S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-7S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Molybdenum, Total	ug/L	MW-10S	8	93.100	40.142	0.670	66.212	119.988	100.000	dec
Molybdenum, Total	ug/L	MW-11S	8	83.925	31.930	0.670	62.538	105.312	100.000	dec
Molybdenum, Total	ug/L	MW-12S	8	40.838	19.124	0.670	28.028	53.647	100.000	dec
Molybdenum, Total	ug/L	MW-1S	8	29.900	12.923	0.670	21.244	38.556	100.000	dec
Molybdenum, Total	ug/L	MW-2S	8	7.900	4.094	0.670	5.158	10.642	100.000	
Molybdenum, Total	ug/L	MW-3S	8	51.563	16.087	0.670	40.787	62.338	100.000	
Molybdenum, Total	ug/L	MW-6S	8	112.812	45.082	0.670	82.616	143.009	100.000	
Molybdenum, Total	ug/L	MW-7S	8	43.100	14.009	0.670	33.717	52.483	100.000	dec
Selenium, Total	ug/L	MW-10S	8	3.475	3.841	0.670	0.902	6.048	50.000	
Selenium, Total	ug/L	MW-11S	8	9.825	3.364	0.670	7.572	12.078	50.000	
Selenium, Total	ug/L	MW-12S	8	20.825	11.152	0.670	13.355	28.295	50.000	
Selenium, Total	ug/L	MW-1S	8	19.287	8.046	0.670	13.898	24.677	50.000	
Selenium, Total	ug/L	MW-2S	8	25.375	30.758	0.670	4.773	45.977	50.000	
Selenium, Total	ug/L	MW-3S	8	4.363	6.100	0.670	0.276	8.449	50.000	
Selenium, Total	ug/L	MW-6S	8	13.438	10.503	0.670	6.403	20.472	50.000	
Selenium, Total	ug/L	MW-7S	8	23.413	8.405	0.670	17.782	29.043	50.000	inc
Thallium, Total	ug/L	MW-10S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-11S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-12S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-1S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-2S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-3S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-6S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Thallium, Total	ug/L	MW-7S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Total Radium	pCi/L	MW-10S	8	1.214	0.390	0.670	0.953	1.475	5.000	
Total Radium	pCi/L	MW-11S	8	0.816	0.159	0.670	0.709	0.922	5.000	
Total Radium	pCi/L	MW-12S	8	0.848	0.222	0.670	0.700	0.997	5.000	
Total Radium	pCi/L	MW-1S	8	0.832	0.047	0.670	0.800	0.863	5.000	
Total Radium	pCi/L	MW-2S	8	1.120	0.857	0.670	0.546	1.694	5.000	
Total Radium	pCi/L	MW-3S	8	0.837	0.035	0.670	0.814	0.861	5.000	
Total Radium	pCi/L	MW-6S	8	1.087	0.283	0.670	0.897	1.276	5.000	
Total Radium	pCi/L	MW-7S	8	1.160	0.911	0.670	0.550	1.770	5.000	

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 LCL = Lower Confidence Limit
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Table 1

Confidence Intervals for Comparing the Mean of the Last 16 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-10S	16	2.425	0.689	0.438	2.123	2.727	6.000		
Antimony, Total	ug/L	MW-11S	16	2.294	1.280	0.438	1.733	2.855	6.000	dec	
Antimony, Total	ug/L	MW-12S	16	1.925	0.761	0.438	1.591	2.259	6.000		
Antimony, Total	ug/L	MW-1S	16	2.675	0.886	0.438	2.287	3.063	6.000		
Antimony, Total	ug/L	MW-2S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-3S	16	0.594	0.262	0.438	0.479	0.709	6.000		
Antimony, Total	ug/L	MW-6S	16	2.144	0.897	0.438	1.751	2.537	6.000		
Antimony, Total	ug/L	MW-7S	16	2.850	0.456	0.438	2.650	3.050	6.000		
Arsenic, Total	ug/L	MW-10S	16	0.500	0.000	0.438	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-11S	16	89.794	31.293	0.438	76.081	103.506	10.000		**
Arsenic, Total	ug/L	MW-12S	16	3.081	1.760	0.438	2.310	3.853	10.000		
Arsenic, Total	ug/L	MW-1S	16	7.300	4.190	0.438	5.464	9.136	10.000	dec	**
Arsenic, Total	ug/L	MW-2S	16	13.113	6.587	0.436	10.238	15.987	10.000		
Arsenic, Total	ug/L	MW-3S	16	0.500	0.000	0.438	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-6S	16	0.500	0.000	0.438	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-7S	16	0.694	0.545	0.438	0.455	0.932	10.000		
Barium, Total	ug/L	MW-10S	16	75.600	10.091	0.438	71.178	80.022	2000.000		
Barium, Total	ug/L	MW-11S	16	88.331	26.309	0.438	76.803	99.859	2000.000		
Barium, Total	ug/L	MW-12S	16	105.488	25.253	0.438	94.422	116.553	2000.000	inc	
Barium, Total	ug/L	MW-1S	16	79.631	14.185	0.438	73.415	85.847	2000.000		
Barium, Total	ug/L	MW-2S	16	155.525	40.353	0.438	137.843	173.207	2000.000		
Barium, Total	ug/L	MW-3S	16	96.138	20.256	0.438	87.262	105.013	2000.000		
Barium, Total	ug/L	MW-6S	16	111.050	28.391	0.438	98.609	123.491	2000.000		
Barium, Total	ug/L	MW-7S	16	98.413	28.444	0.438	85.949	110.876	2000.000	dec	
Beryllium, Total	ug/L	MW-10S	13	2.000	0.000	0.494	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-11S	13	2.000	0.000	0.494	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-12S	13	2.000	0.000	0.494	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-1S	13	2.000	0.000	0.494	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-2S	11	0.100	0.000	0.546	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-3S	13	2.000	0.000	0.494	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-6S	13	2.000	0.000	0.494	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-7S	13	2.000	0.000	0.494	2.000	2.000	4.000		
Cadmium, Total	ug/L	MW-10S	13	1.000	0.000	0.494	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-11S	13	1.000	0.000	0.494	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-12S	13	1.000	0.000	0.494	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1S	13	1.000	0.000	0.494	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-2S	11	1.000	0.000	0.546	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-3S	13	1.000	0.000	0.494	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6S	13	1.000	0.000	0.494	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-7S	13	1.000	0.000	0.494	1.000	1.000	5.000		

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 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 16 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Chromium, Total	ug/L	MW-10S	13	5.000	0.000	0.494	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-11S	13	5.000	0.000	0.494	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-12S	13	5.000	0.000	0.494	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1S	13	5.000	0.000	0.494	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2S	11	5.000	0.000	0.546	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-3S	13	5.000	0.000	0.494	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6S	13	5.000	0.000	0.494	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-7S	13	5.000	0.000	0.494	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-10S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-11S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-12S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-1S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2S	16	0.531	0.125	0.438	0.476	0.586	6.000		
Cobalt, Total	ug/L	MW-3S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-7S	16	1.331	1.713	0.438	0.581	2.082	6.000		
Fluoride	mg/L	MW-10S	16	0.311	0.078	0.438	0.276	0.345	4.000	dec	
Fluoride	mg/L	MW-11S	16	0.271	0.092	0.438	0.231	0.312	4.000	dec	
Fluoride	mg/L	MW-12S	16	0.328	0.118	0.438	0.276	0.380	4.000	dec	
Fluoride	mg/L	MW-1S	16	0.239	0.135	0.438	0.180	0.298	4.000	dec	
Fluoride	mg/L	MW-2S	16	0.195	0.087	0.438	0.157	0.233	4.000	dec	
Fluoride	mg/L	MW-3S	16	0.281	0.059	0.438	0.256	0.307	4.000		
Fluoride	mg/L	MW-6S	16	0.219	0.034	0.438	0.205	0.234	4.000		
Fluoride	mg/L	MW-7S	16	0.084	0.046	0.438	0.064	0.104	4.000		
Lead, Total	ug/L	MW-10S	13	5.000	0.000	0.494	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11S	13	5.000	0.000	0.494	5.000	5.000	15.000		
Lead, Total	ug/L	MW-12S	13	5.000	0.000	0.494	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1S	13	5.000	0.000	0.494	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2S	11	5.000	0.000	0.546	5.000	5.000	15.000		
Lead, Total	ug/L	MW-3S	13	5.000	0.000	0.494	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6S	13	5.000	0.000	0.494	5.000	5.000	15.000		
Lead, Total	ug/L	MW-7S	13	5.869	2.124	0.494	4.820	6.919	15.000		
Lithium, Total	ug/L	MW-10S	16	99.188	9.686	0.438	94.943	103.432	40.000		**
Lithium, Total	ug/L	MW-11S	16	107.375	19.451	0.438	98.852	115.898	40.000		**
Lithium, Total	ug/L	MW-12S	16	105.956	18.372	0.438	97.906	114.007	40.000	inc	**
Lithium, Total	ug/L	MW-1S	16	97.500	18.534	0.438	89.379	105.621	40.000		**
Lithium, Total	ug/L	MW-2S	16	76.613	25.891	0.438	65.267	87.958	40.000	dec	**
Lithium, Total	ug/L	MW-3S	16	27.194	20.334	0.438	18.284	36.104	40.000	dec	**
Lithium, Total	ug/L	MW-6S	16	72.069	18.418	0.438	63.998	80.139	40.000		**
Lithium, Total	ug/L	MW-7S	16	82.744	59.106	0.438	56.844	108.643	40.000	dec	**

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 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 16 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-10S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Mercury	ug/L	MW-11S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Mercury	ug/L	MW-12S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Mercury	ug/L	MW-1S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Mercury	ug/L	MW-2S	11	1.000	0.000	0.546	1.000	1.000	2.000		
Mercury	ug/L	MW-3S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Mercury	ug/L	MW-6S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Mercury	ug/L	MW-7S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-10S	16	142.738	59.418	0.438	116.701	168.774	100.000	dec	**
Molybdenum, Total	ug/L	MW-11S	16	173.650	97.738	0.438	130.822	216.478	100.000	dec	**
Molybdenum, Total	ug/L	MW-12S	16	66.269	38.559	0.438	49.373	83.165	100.000	dec	
Molybdenum, Total	ug/L	MW-1S	16	38.331	17.762	0.438	30.548	46.114	100.000	dec	
Molybdenum, Total	ug/L	MW-2S	16	19.994	20.163	0.438	11.159	28.829	100.000	dec	
Molybdenum, Total	ug/L	MW-3S	16	48.194	13.008	0.438	42.494	53.894	100.000		
Molybdenum, Total	ug/L	MW-6S	16	109.713	34.952	0.438	94.397	125.028	100.000		
Molybdenum, Total	ug/L	MW-7S	16	102.813	73.025	0.438	70.814	134.811	100.000	dec	
Selenium, Total	ug/L	MW-10S	16	4.100	2.754	0.438	2.893	5.307	50.000		
Selenium, Total	ug/L	MW-11S	16	7.744	3.311	0.438	6.293	9.195	50.000		
Selenium, Total	ug/L	MW-12S	16	14.306	11.937	0.438	9.075	19.537	50.000		
Selenium, Total	ug/L	MW-1S	16	16.531	7.622	0.438	13.191	19.871	50.000		
Selenium, Total	ug/L	MW-2S	16	16.325	23.425	0.438	6.060	26.590	50.000		
Selenium, Total	ug/L	MW-3S	16	4.419	5.632	0.438	1.951	6.887	50.000		
Selenium, Total	ug/L	MW-6S	16	11.731	7.996	0.438	8.227	15.235	50.000		
Selenium, Total	ug/L	MW-7S	16	14.769	10.742	0.438	10.062	19.476	50.000	inc	
Thallium, Total	ug/L	MW-10S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-11S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-12S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-1S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-2S	11	0.500	0.000	0.546	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-3S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-6S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-7S	13	1.000	0.000	0.494	1.000	1.000	2.000		
Total Radium	pCi/L	MW-10S	16	1.161	0.391	0.438	0.989	1.332	5.000		
Total Radium	pCi/L	MW-11S	16	0.858	0.208	0.438	0.766	0.949	5.000		
Total Radium	pCi/L	MW-12S	16	0.992	0.381	0.438	0.825	1.159	5.000		
Total Radium	pCi/L	MW-1S	16	0.868	0.294	0.438	0.740	0.997	5.000		
Total Radium	pCi/L	MW-2S	16	1.113	0.640	0.438	0.833	1.394	5.000		
Total Radium	pCi/L	MW-3S	16	0.835	0.094	0.438	0.793	0.876	5.000		
Total Radium	pCi/L	MW-6S	16	1.050	0.328	0.438	0.906	1.194	5.000		
Total Radium	pCi/L	MW-7S	16	1.207	0.659	0.438	0.918	1.496	5.000		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Antimony, Total	ug/L	MW-111	4	0.500	0.000	1.176	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-31	4	0.500	0.000	1.176	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-61	4	0.500	0.000	1.176	0.500	0.500	6.000	
Arsenic, Total	ug/L	MW-111	4	2.275	1.839	1.176	0.112	4.438	10.000	
Arsenic, Total	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-31	4	0.500	0.000	1.176	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-61	4	0.500	0.000	1.176	0.500	0.500	10.000	
Barium, Total	ug/L	MW-111	4	58.325	10.639	1.176	45.811	70.839	2000.000	dec
Barium, Total	ug/L	MW-11	4	63.025	13.450	1.176	47.205	78.845	2000.000	
Barium, Total	ug/L	MW-21	4	86.725	18.731	1.176	64.692	108.758	2000.000	
Barium, Total	ug/L	MW-31	4	73.825	18.022	1.176	52.626	95.024	2000.000	
Barium, Total	ug/L	MW-61	4	69.975	6.287	1.176	62.580	77.370	2000.000	
Beryllium, Total	ug/L	MW-111	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-11	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-21	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-31	4	2.000	0.000	1.176	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-61	4	2.000	0.000	1.176	2.000	2.000	4.000	
Cadmium, Total	ug/L	MW-111	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-11	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-21	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-31	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-61	4	1.000	0.000	1.176	1.000	1.000	5.000	
Chromium, Total	ug/L	MW-111	4	5.000	0.000	1.176	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-11	4	5.000	0.000	1.176	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-21	4	5.000	0.000	1.176	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-31	4	5.000	0.000	1.176	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-61	4	5.000	0.000	1.176	5.000	5.000	100.000	
Cobalt, Total	ug/L	MW-111	4	0.500	0.000	1.176	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-31	4	0.500	0.000	1.176	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-61	4	0.500	0.000	1.176	0.500	0.500	6.000	
Fluoride	mg/L	MW-111	4	0.415	0.025	1.176	0.385	0.445	4.000	
Fluoride	mg/L	MW-11	4	0.288	0.025	1.176	0.258	0.317	4.000	dec
Fluoride	mg/L	MW-21	4	0.265	0.017	1.176	0.245	0.285	4.000	dec
Fluoride	mg/L	MW-31	4	0.335	0.050	1.176	0.276	0.394	4.000	
Fluoride	mg/L	MW-61	4	0.313	0.029	1.176	0.279	0.346	4.000	

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 LCL = Lower Confidence Limit
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Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Lead, Total	ug/L	MW-111	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-21	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-31	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-61	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-111	4	107.100	10.679	1.176	94.538	119.662	40.000		**
Lithium, Total	ug/L	MW-11	4	88.925	3.853	1.176	84.393	93.457	40.000		**
Lithium, Total	ug/L	MW-21	4	45.125	8.442	1.176	35.195	55.055	40.000	dec	
Lithium, Total	ug/L	MW-31	4	15.600	6.471	1.176	7.988	23.212	40.000	dec	
Lithium, Total	ug/L	MW-61	4	104.125	6.250	1.176	96.773	111.477	40.000	dec	**
Mercury	ug/L	MW-111	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-11	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-21	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-31	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-61	4	1.000	0.000	1.176	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-111	4	131.250	11.471	1.176	117.757	144.743	100.000	dec	**
Molybdenum, Total	ug/L	MW-11	4	88.175	6.111	1.176	80.987	95.363	100.000	dec	
Molybdenum, Total	ug/L	MW-21	4	68.875	7.762	1.176	59.744	78.006	100.000	dec	
Molybdenum, Total	ug/L	MW-31	4	60.075	5.658	1.176	53.420	66.730	100.000		
Molybdenum, Total	ug/L	MW-61	4	183.250	21.360	1.176	158.124	208.376	100.000		**
Selenium, Total	ug/L	MW-111	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-31	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-61	4	0.500	0.000	1.176	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-111	4	1.000	0.000	1.176	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-11	4	1.000	0.000	1.176	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-21	4	1.000	0.000	1.176	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-31	4	1.000	0.000	1.176	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-61	4	1.000	0.000	1.176	1.000	1.000	2.000		
Total Radium	pCi/L	MW-111	4	1.426	0.722	1.176	0.577	2.275	5.000		
Total Radium	pCi/L	MW-11	4	1.580	0.305	1.176	1.221	1.939	5.000		
Total Radium	pCi/L	MW-21	4	1.720	0.450	1.176	1.191	2.249	5.000		
Total Radium	pCi/L	MW-31	4	1.178	0.199	1.176	0.944	1.412	5.000		
Total Radium	pCi/L	MW-61	4	1.650	0.208	1.176	1.405	1.895	5.000		

* - Insufficient Data

** - Significant Exceedance

LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 6 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Antimony, Total	ug/L	MW-11I	6	0.500	0.000	0.822	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-1I	6	0.500	0.000	0.822	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-2I	6	0.500	0.000	0.822	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-3I	6	0.500	0.000	0.822	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-6I	6	0.500	0.000	0.822	0.500	0.500	6.000	
Arsenic, Total	ug/L	MW-11I	6	2.550	1.912	0.822	0.978	4.122	10.000	
Arsenic, Total	ug/L	MW-1I	6	0.500	0.000	0.822	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-2I	6	1.000	1.225	0.822	0.000	2.007	10.000	
Arsenic, Total	ug/L	MW-3I	6	0.500	0.000	0.822	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-6I	6	0.500	0.000	0.822	0.500	0.500	10.000	
Barium, Total	ug/L	MW-11I	6	58.100	8.757	0.822	50.899	65.301	2000.000	dec
Barium, Total	ug/L	MW-1I	6	59.650	11.763	0.822	49.976	69.324	2000.000	
Barium, Total	ug/L	MW-2I	6	83.083	16.101	0.822	69.842	96.324	2000.000	
Barium, Total	ug/L	MW-3I	6	80.050	16.990	0.822	66.078	94.022	2000.000	
Barium, Total	ug/L	MW-6I	6	66.300	8.412	0.822	59.382	73.218	2000.000	
Beryllium, Total	ug/L	MW-11I	6	2.000	0.000	0.822	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-1I	6	2.000	0.000	0.822	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-2I	3							*
Beryllium, Total	ug/L	MW-3I	6	2.000	0.000	0.822	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-6I	6	2.000	0.000	0.822	2.000	2.000	4.000	
Cadmium, Total	ug/L	MW-11I	6	1.000	0.000	0.822	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-1I	6	1.000	0.000	0.822	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-2I	3							*
Cadmium, Total	ug/L	MW-3I	6	1.000	0.000	0.822	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-6I	6	1.000	0.000	0.822	1.000	1.000	5.000	
Chromium, Total	ug/L	MW-11I	6	5.000	0.000	0.822	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-1I	6	5.000	0.000	0.822	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-2I	3							*
Chromium, Total	ug/L	MW-3I	6	5.000	0.000	0.822	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-6I	6	5.000	0.000	0.822	5.000	5.000	100.000	
Cobalt, Total	ug/L	MW-11I	6	0.500	0.000	0.822	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-1I	6	0.500	0.000	0.822	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-2I	5	0.500	0.000	0.953	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-3I	6	0.500	0.000	0.822	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-6I	6	0.500	0.000	0.822	0.500	0.500	6.000	
Fluoride	mg/L	MW-11I	6	0.402	0.033	0.822	0.375	0.428	4.000	
Fluoride	mg/L	MW-1I	6	0.282	0.022	0.822	0.263	0.300	4.000	dec
Fluoride	mg/L	MW-2I	6	0.255	0.040	0.822	0.222	0.288	4.000	
Fluoride	mg/L	MW-3I	6	0.287	0.086	0.822	0.216	0.358	4.000	
Fluoride	mg/L	MW-6I	6	0.303	0.028	0.822	0.280	0.326	4.000	

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Table 1

Confidence Intervals for Comparing the Mean of the Last 6 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Lead, Total	ug/L	MW-111	6	5.000	0.000	0.822	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11	6	5.000	0.000	0.822	5.000	5.000	15.000		
Lead, Total	ug/L	MW-21	3								*
Lead, Total	ug/L	MW-31	6	5.000	0.000	0.822	5.000	5.000	15.000		
Lead, Total	ug/L	MW-61	6	5.000	0.000	0.822	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-111	6	108.900	9.397	0.822	101.172	116.628	40.000		**
Lithium, Total	ug/L	MW-11	6	89.317	3.403	0.822	86.518	92.115	40.000		**
Lithium, Total	ug/L	MW-21	6	48.900	8.835	0.822	41.635	56.165	40.000		**
Lithium, Total	ug/L	MW-31	6	15.500	6.032	0.822	10.539	20.461	40.000	dec	
Lithium, Total	ug/L	MW-61	6	105.583	6.741	0.822	100.040	111.127	40.000	dec	**
Mercury	ug/L	MW-111	6	1.000	0.000	0.822	1.000	1.000	2.000		
Mercury	ug/L	MW-11	6	1.000	0.000	0.822	1.000	1.000	2.000		
Mercury	ug/L	MW-21	3								*
Mercury	ug/L	MW-31	6	1.000	0.000	0.822	1.000	1.000	2.000		
Mercury	ug/L	MW-61	6	1.000	0.000	0.822	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-111	6	137.667	13.367	0.822	126.674	148.659	100.000	dec	**
Molybdenum, Total	ug/L	MW-11	6	92.867	9.179	0.822	85.318	100.416	100.000	dec	
Molybdenum, Total	ug/L	MW-21	6	66.100	7.725	0.822	59.747	72.453	100.000		
Molybdenum, Total	ug/L	MW-31	6	60.133	4.409	0.822	56.508	63.759	100.000		
Molybdenum, Total	ug/L	MW-61	6	197.167	27.440	0.822	174.600	219.733	100.000		**
Selenium, Total	ug/L	MW-111	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-11	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-21	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-31	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-61	6	0.500	0.000	0.822	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-111	6	1.000	0.000	0.822	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-11	6	1.000	0.000	0.822	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-21	3								*
Thallium, Total	ug/L	MW-31	6	1.000	0.000	0.822	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-61	6	1.000	0.000	0.822	1.000	1.000	2.000		
Total Radium	pCi/L	MW-111	6	1.577	0.617	0.822	1.070	2.085	5.000		
Total Radium	pCi/L	MW-11	6	1.510	0.424	0.822	1.161	1.859	5.000		
Total Radium	pCi/L	MW-21	6	1.628	0.387	0.822	1.310	1.947	5.000		
Total Radium	pCi/L	MW-31	6	1.092	0.206	0.822	0.923	1.261	5.000		
Total Radium	pCi/L	MW-61	6	1.775	0.402	0.822	1.445	2.105	5.000		

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 LCL = Lower Confidence Limit
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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Antimony, Total	ug/L	MW-111	8	0.500	0.000	0.670	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-11	8	0.500	0.000	0.670	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-2I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Arsenic, Total	ug/L	MW-111	8	2.188	1.750	0.670	1.015	3.360	10.000	
Arsenic, Total	ug/L	MW-11	8	0.500	0.000	0.670	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-2I	8	0.875	1.061	0.670	0.165	1.585	10.000	
Arsenic, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	10.000	
Barium, Total	ug/L	MW-111	8	55.925	9.094	0.670	49.834	62.016	2000.000	dec
Barium, Total	ug/L	MW-11	8	58.512	10.162	0.670	51.706	65.319	2000.000	
Barium, Total	ug/L	MW-2I	8	78.475	16.245	0.670	67.594	89.356	2000.000	
Barium, Total	ug/L	MW-3I	8	74.625	17.546	0.670	62.872	86.378	2000.000	
Barium, Total	ug/L	MW-6I	8	62.475	10.077	0.670	55.726	69.224	2000.000	
Beryllium, Total	ug/L	MW-111	8	2.000	0.000	0.670	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-11	8	2.000	0.000	0.670	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-2I	4	0.100	0.000	1.176	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-3I	8	2.000	0.000	0.670	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-6I	8	2.000	0.000	0.670	2.000	2.000	4.000	
Cadmium, Total	ug/L	MW-111	8	1.000	0.000	0.670	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-11	8	1.000	0.000	0.670	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-2I	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-3I	8	1.000	0.000	0.670	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-6I	8	1.000	0.000	0.670	1.000	1.000	5.000	
Chromium, Total	ug/L	MW-111	8	5.000	0.000	0.670	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-11	8	5.000	0.000	0.670	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-2I	4	5.000	0.000	1.176	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-3I	8	5.000	0.000	0.670	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-6I	8	5.000	0.000	0.670	5.000	5.000	100.000	
Cobalt, Total	ug/L	MW-111	8	0.500	0.000	0.670	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-11	8	0.500	0.000	0.670	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-2I	7	0.500	0.000	0.734	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Fluoride	mg/L	MW-111	8	0.402	0.028	0.670	0.384	0.421	4.000	
Fluoride	mg/L	MW-11	8	0.294	0.031	0.670	0.273	0.315	4.000	dec
Fluoride	mg/L	MW-2I	8	0.266	0.040	0.670	0.239	0.293	4.000	
Fluoride	mg/L	MW-3I	8	0.291	0.074	0.670	0.242	0.341	4.000	
Fluoride	mg/L	MW-6I	8	0.294	0.032	0.670	0.272	0.316	4.000	

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Lead, Total	ug/L	MW-111	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2I	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-3I	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6I	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-111	8	106.075	9.796	0.670	99.513	112.637	40.000		**
Lithium, Total	ug/L	MW-11	8	91.788	6.513	0.670	87.425	96.150	40.000		**
Lithium, Total	ug/L	MW-2I	8	54.050	12.880	0.670	45.423	62.677	40.000	dec	**
Lithium, Total	ug/L	MW-3I	8	15.538	5.926	0.670	11.568	19.507	40.000	dec	**
Lithium, Total	ug/L	MW-6I	8	108.688	8.371	0.670	103.081	114.294	40.000	dec	**
Mercury	ug/L	MW-111	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-11	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-2I	4	0.100	0.000	1.176	0.100	0.100	2.000		
Mercury	ug/L	MW-3I	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-6I	8	1.000	0.000	0.670	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-111	8	145.000	17.736	0.670	133.120	156.880	100.000	dec	**
Molybdenum, Total	ug/L	MW-11	8	95.763	9.739	0.670	89.239	102.286	100.000	dec	**
Molybdenum, Total	ug/L	MW-2I	8	65.625	6.591	0.670	61.210	70.040	100.000		
Molybdenum, Total	ug/L	MW-3I	8	63.788	8.274	0.670	58.245	69.330	100.000		
Molybdenum, Total	ug/L	MW-6I	8	202.375	25.796	0.670	185.097	219.653	100.000		**
Selenium, Total	ug/L	MW-111	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-11	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-2I	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-111	8	1.000	0.000	0.670	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-11	8	1.000	0.000	0.670	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-2I	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-3I	8	1.000	0.000	0.670	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-6I	8	1.000	0.000	0.670	1.000	1.000	2.000		
Total Radium	pCi/L	MW-111	8	1.489	0.549	0.670	1.122	1.857	5.000		
Total Radium	pCi/L	MW-11	8	1.500	0.359	0.670	1.259	1.741	5.000		
Total Radium	pCi/L	MW-2I	8	1.623	0.479	0.670	1.301	1.944	5.000		
Total Radium	pCi/L	MW-3I	8	1.151	0.264	0.670	0.974	1.328	5.000		
Total Radium	pCi/L	MW-6I	8	1.723	0.435	0.670	1.431	2.014	5.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-11D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-6D	4	0.700	0.400	1.176	0.229	1.171	6.000		
Arsenic, Total	ug/L	MW-11D	4	5.125	0.222	1.176	4.864	5.386	10.000		
Arsenic, Total	ug/L	MW-1D	4	2.650	0.823	1.176	1.682	3.618	10.000		
Arsenic, Total	ug/L	MW-2D	4	4.075	0.450	1.176	3.546	4.604	10.000		
Arsenic, Total	ug/L	MW-6D	4	0.500	0.000	1.176	0.500	0.500	10.000		
Barium, Total	ug/L	MW-11D	4	58.925	5.717	1.176	52.200	65.650	2000.000	dec	
Barium, Total	ug/L	MW-1D	4	60.775	1.700	1.176	58.776	62.774	2000.000		
Barium, Total	ug/L	MW-2D	4	71.125	7.286	1.176	62.554	79.696	2000.000		
Barium, Total	ug/L	MW-6D	4	60.325	2.613	1.176	57.251	63.399	2000.000		
Beryllium, Total	ug/L	MW-11D	4	2.000	0.000	1.176	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-1D	4	2.000	0.000	1.176	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-2D	4	2.000	0.000	1.176	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-6D	4	2.000	0.000	1.176	2.000	2.000	4.000		
Cadmium, Total	ug/L	MW-11D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-2D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Chromium, Total	ug/L	MW-11D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-11D	4	0.725	0.450	1.176	0.196	1.254	6.000		
Cobalt, Total	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Fluoride	mg/L	MW-11D	4	0.285	0.010	1.176	0.273	0.297	4.000		
Fluoride	mg/L	MW-1D	4	0.340	0.028	1.176	0.307	0.373	4.000	dec	
Fluoride	mg/L	MW-2D	4	0.300	0.018	1.176	0.279	0.321	4.000	dec	
Fluoride	mg/L	MW-6D	4	0.193	0.022	1.176	0.166	0.219	4.000		
Lead, Total	ug/L	MW-11D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-11D	4	83.100	3.726	1.176	78.717	87.483	40.000	dec	**
Lithium, Total	ug/L	MW-1D	4	84.400	3.353	1.176	80.456	88.344	40.000		**
Lithium, Total	ug/L	MW-2D	4	45.750	7.491	1.176	36.939	54.561	40.000	dec	
Lithium, Total	ug/L	MW-6D	4	75.750	6.025	1.176	68.663	82.837	40.000	dec	**

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Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-11D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-1D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-2D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-6D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-11D	4	152.500	15.351	1.176	134.442	170.558	100.000	dec	**
Molybdenum, Total	ug/L	MW-1D	4	98.425	5.198	1.176	92.311	104.539	100.000	dec	
Molybdenum, Total	ug/L	MW-2D	4	51.975	5.644	1.176	45.336	58.614	100.000	dec	
Molybdenum, Total	ug/L	MW-6D	4	208.500	3.873	1.176	203.944	213.056	100.000		**
Selenium, Total	ug/L	MW-11D	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-6D	4	0.500	0.000	1.176	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-11D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-1D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-2D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-6D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Total Radium	pCi/L	MW-11D	4	1.194	0.391	1.176	0.733	1.654	5.000		
Total Radium	pCi/L	MW-1D	4	1.245	0.545	1.176	0.604	1.886	5.000		
Total Radium	pCi/L	MW-2D	4	1.130	0.425	1.176	0.630	1.631	5.000		
Total Radium	pCi/L	MW-6D	4	1.150	0.308	1.176	0.787	1.512	5.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 6 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-11D	6	0.500	0.000	0.822	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-1D	6	0.500	0.000	0.822	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-2D	6	0.500	0.000	0.822	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-6D	6	0.633	0.327	0.822	0.365	0.902	6.000		
Arsenic, Total	ug/L	MW-11D	6	5.300	0.473	0.822	4.911	5.689	10.000		
Arsenic, Total	ug/L	MW-1D	6	2.500	0.681	0.822	1.940	3.060	10.000		
Arsenic, Total	ug/L	MW-2D	6	4.300	0.518	0.822	3.874	4.726	10.000		
Arsenic, Total	ug/L	MW-6D	6	0.500	0.000	0.822	0.500	0.500	10.000		
Barium, Total	ug/L	MW-11D	6	57.967	4.717	0.822	54.087	61.846	2000.000	dec	
Barium, Total	ug/L	MW-1D	6	60.133	1.650	0.822	58.776	61.490	2000.000		
Barium, Total	ug/L	MW-2D	6	70.683	6.330	0.822	65.478	75.889	2000.000		
Barium, Total	ug/L	MW-6D	6	58.183	4.172	0.822	54.752	61.615	2000.000		
Beryllium, Total	ug/L	MW-11D	6	2.000	0.000	0.822	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-1D	3								*
Beryllium, Total	ug/L	MW-2D	6	2.000	0.000	0.822	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-6D	6	2.000	0.000	0.822	2.000	2.000	4.000		
Cadmium, Total	ug/L	MW-11D	6	1.000	0.000	0.822	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1D	3								*
Cadmium, Total	ug/L	MW-2D	6	1.000	0.000	0.822	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6D	6	1.000	0.000	0.822	1.000	1.000	5.000		
Chromium, Total	ug/L	MW-11D	6	5.000	0.000	0.822	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1D	3								*
Chromium, Total	ug/L	MW-2D	6	5.000	0.000	0.822	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6D	6	5.000	0.000	0.822	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-11D	6	0.650	0.367	0.822	0.348	0.952	6.000		
Cobalt, Total	ug/L	MW-1D	5	0.500	0.000	0.953	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2D	6	0.500	0.000	0.822	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6D	6	0.500	0.000	0.822	0.500	0.500	6.000		
Fluoride	mg/L	MW-11D	6	0.270	0.025	0.822	0.249	0.291	4.000		
Fluoride	mg/L	MW-1D	6	0.328	0.029	0.822	0.305	0.352	4.000		
Fluoride	mg/L	MW-2D	6	0.277	0.046	0.822	0.239	0.315	4.000	dec	
Fluoride	mg/L	MW-6D	6	0.185	0.022	0.822	0.167	0.203	4.000		
Lead, Total	ug/L	MW-11D	6	5.000	0.000	0.822	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1D	3								*
Lead, Total	ug/L	MW-2D	6	5.000	0.000	0.822	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6D	6	5.000	0.000	0.822	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-11D	6	83.200	2.924	0.822	80.795	85.605	40.000	dec	**
Lithium, Total	ug/L	MW-1D	6	85.633	4.743	0.822	81.733	89.534	40.000		**
Lithium, Total	ug/L	MW-2D	6	47.267	6.276	0.822	42.106	52.428	40.000	dec	**
Lithium, Total	ug/L	MW-6D	6	78.967	6.851	0.822	73.333	84.601	40.000	dec	**

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Table 1

Confidence Intervals for Comparing the Mean of the Last 6 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-11D	6	1.000	0.000	0.822	1.000	1.000	2.000		
Mercury	ug/L	MW-1D	3								*
Mercury	ug/L	MW-2D	6	1.000	0.000	0.822	1.000	1.000	2.000		
Mercury	ug/L	MW-6D	6	1.000	0.000	0.822	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-11D	6	161.000	18.022	0.822	146.179	175.821	100.000	dec	**
Molybdenum, Total	ug/L	MW-1D	6	101.950	7.045	0.822	96.156	107.744	100.000		
Molybdenum, Total	ug/L	MW-2D	6	57.100	9.064	0.822	49.646	64.554	100.000	dec	
Molybdenum, Total	ug/L	MW-6D	6	216.167	14.580	0.822	204.177	228.157	100.000		**
Selenium, Total	ug/L	MW-11D	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-1D	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-2D	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-6D	6	0.500	0.000	0.822	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-11D	6	1.000	0.000	0.822	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-1D	3								*
Thallium, Total	ug/L	MW-2D	6	1.000	0.000	0.822	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-6D	6	1.000	0.000	0.822	1.000	1.000	2.000		
Total Radium	pCi/L	MW-11D	6	2.172	2.438	0.822	0.167	4.177	5.000		
Total Radium	pCi/L	MW-1D	6	1.276	0.575	0.822	0.803	1.748	5.000		
Total Radium	pCi/L	MW-2D	6	1.214	0.427	0.822	0.863	1.566	5.000		
Total Radium	pCi/L	MW-6D	6	1.120	0.256	0.822	0.910	1.331	5.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-11D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-1D	6	0.500	0.000	0.822	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-2D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-6D	8	0.600	0.283	0.670	0.411	0.789	6.000		
Arsenic, Total	ug/L	MW-11D	8	5.250	0.490	0.670	4.922	5.578	10.000		
Arsenic, Total	ug/L	MW-1D	6	2.500	0.681	0.822	1.940	3.060	10.000		
Arsenic, Total	ug/L	MW-2D	8	3.600	1.315	0.670	2.719	4.481	10.000		
Arsenic, Total	ug/L	MW-6D	8	0.500	0.000	0.670	0.500	0.500	10.000		
Barium, Total	ug/L	MW-11D	8	57.938	5.100	0.670	54.521	61.354	2000.000	dec	
Barium, Total	ug/L	MW-1D	6	60.133	1.650	0.822	58.776	61.490	2000.000		
Barium, Total	ug/L	MW-2D	8	67.938	7.530	0.670	62.893	72.982	2000.000		
Barium, Total	ug/L	MW-6D	8	57.038	4.907	0.670	53.751	60.324	2000.000		
Beryllium, Total	ug/L	MW-11D	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-1D	3								*
Beryllium, Total	ug/L	MW-2D	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-6D	8	2.000	0.000	0.670	2.000	2.000	4.000		
Cadmium, Total	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1D	3								*
Cadmium, Total	ug/L	MW-2D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	5.000		
Chromium, Total	ug/L	MW-11D	8	7.413	6.824	0.670	2.842	11.983	100.000		
Chromium, Total	ug/L	MW-1D	3								*
Chromium, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6D	8	5.000	0.000	0.670	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-11D	8	0.613	0.318	0.670	0.399	0.826	6.000		
Cobalt, Total	ug/L	MW-1D	5	0.500	0.000	0.953	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2D	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Fluoride	mg/L	MW-11D	8	0.264	0.024	0.670	0.247	0.280	4.000		
Fluoride	mg/L	MW-1D	6	0.328	0.029	0.822	0.305	0.352	4.000		
Fluoride	mg/L	MW-2D	8	0.294	0.050	0.670	0.260	0.328	4.000		
Fluoride	mg/L	MW-6D	8	0.176	0.027	0.670	0.158	0.194	4.000		
Lead, Total	ug/L	MW-11D	8	8.763	10.642	0.670	1.634	15.891	15.000		
Lead, Total	ug/L	MW-1D	3								*
Lead, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6D	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-11D	8	84.875	4.557	0.670	81.823	87.927	40.000	dec	**
Lithium, Total	ug/L	MW-1D	6	85.633	4.743	0.822	81.733	89.534	40.000		**
Lithium, Total	ug/L	MW-2D	8	51.338	10.890	0.670	44.044	58.631	40.000	dec	**
Lithium, Total	ug/L	MW-6D	8	81.813	9.092	0.670	75.722	87.903	40.000	dec	**

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-1D	3								*
Mercury	ug/L	MW-2D	4	0.100	0.000	1.176	0.100	0.100	2.000		
Mercury	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-11D	8	164.000	16.292	0.670	153.087	174.913	100.000	dec	**
Molybdenum, Total	ug/L	MW-1D	6	101.950	7.045	0.822	96.156	107.744	100.000		
Molybdenum, Total	ug/L	MW-2D	8	63.825	15.233	0.670	53.622	74.028	100.000	dec	
Molybdenum, Total	ug/L	MW-6D	8	211.875	15.797	0.670	201.294	222.456	100.000		**
Selenium, Total	ug/L	MW-11D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-1D	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-2D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-6D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-1D	3								*
Thallium, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Total Radium	pCi/L	MW-11D	8	1.871	2.135	0.670	0.441	3.301	5.000		
Total Radium	pCi/L	MW-1D	6	1.276	0.575	0.822	0.803	1.748	5.000		
Total Radium	pCi/L	MW-2D	8	1.308	0.523	0.670	0.958	1.659	5.000		
Total Radium	pCi/L	MW-6D	8	1.144	0.232	0.670	0.988	1.299	5.000		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

**Table 1: 95% LCL Compared to GWPS
Shallow Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through October 2023)	1	5.8	71.0409	0.2	2	10	5.8	0.1	10	20	2	10	1	1	1.78
MW-1S	September 2018	3	6	70	2	1	5	2.5	0.249	5	89.667	1	28.867	8	1	0.179
	May 2019	2	4	56	2	1	5	2.5	0.114	5	79.165	1	15.347	9	1	0.195
	November 2019	2	4	55	2	1	5	2.5	0.147	5	79.451	1	16.653	6	1	0.195
	May 2020	2	3	53	2	1	5	2.5	0.150	5	80.189	1	16.100	5	1	0.704
	November 2020	2	3	55	2	1	5	2.5	0.148	5	88.264	1	18.852	3	1	0.705
	May 2021	2	4	66	2	1	5	2.5	0.082	5	77.22	1	21.985	2	1	0.800
	November 2021	1.670	3.755 4.746 (N=8)	62.955	2.000	1.000	5.000	0.500	0.054	5.000	74.307	1.000	15.401	5.239	1.000	0.750
	May 2022	1.421	3.228	65.705	2.000	1.000	5.000	0.500	0.043	5.000	74.448	1.000	11.589	8.818	1.000	0.750
	November 2022	1.487	2.768	61.875	2.000	1.000	5.000	0.500	0.053	5.000	71.273	1.000	19.172	19.289	1.000	0.750
	April 2023	1.242	2.279	57.771	2.000	1.000	5.000	0.500	0.112	5.000	67.103	1.000	14.915	19.350	1.000	0.776
October 2023	1.271	2.317	61.080	2.000	1.000	5.000	0.500	0.058	5.000	63.712	1.000	15.291	15.836	1.000	0.815	
MW-2S	September 2018	3	0	159	2	1	5	2.5	0.138	5	82.118	1	10.109	2	1	0.787
	May 2019	3	0	182	2	1	5	2.5	0.121	5	82.220	1	0	0	1	0.915
	November 2019	3	1	133	2	1	5	1.243	0.119	5	80.204	1	9.522	0	1	1.011
	May 2020	3	0	132	2	1	5	1.243	0.116	5	80.032	1	5.47	0	1	0.678
	November 2020	3	7	99	2	1	5	1.243	0.123	5	77.000	1	3.854	0	1	0.284
	May 2021	3	8	89	2	1	5	1.243	0.105	5	47.696	1	3.499	0	1	0.170
	November 2021	0.500	9.413 9.766 (N=7) 8.724 (N=8) 10.853 (N=16)	95.412	2.000	1.000	5.000	2.500	0.107	5.000	43.414	1.000	3.472	0.000	1.000	0.170
	May 2022	0.500	9.504 10.317 (N=8)	107.557	2.000	1.000	5.000	0.500	0.111	5.000	41.555	1.000	5.997	3.834	1.000	0.315
	November 2022	0.500	7.272 9.383 (N=8) 10.817 (N=15)	98.750	2.000	1.000	5.000	0.500	0.111	5.000	41.444	1.000	5.997	2.833	1.000	0.466
	April 2023	0.500	7.393 9.336 (N=8) 11.027 (N=16)	99.202	0.100	1.000	5.000	0.500	0.130	5.000	39.003 48.832 (N=8)	1.000	3.573	10.400	0.500	0.466
October 2023	0.500	4.687 8.732 (N=8) 10.238 (N=16)	87.089	2.000	1.000	5.000	0.500	0.130	5.000	34.639 40.571 (N=7)	1.000	2.160	2.639	1.000	0.710	

**Table 1: 95% LCL Compared to GWPS
Shallow Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through October 2023)	1	5.8	71.0409	0.2	2	10	5.8	0.1	10	20	2	10	1	1	1.78
MW-3S	September 2018	3	5	71	2	1	5	2.5	0.269	5	10.077	1	36.566	0	1	0.578
	May 2019	2	5	71	2	1	5	2.5	0.210	5	9.220	1	35.121	1	1	0.621
	November 2019	2	5	71	2	1	5	2.5	0.193	5	6.662	1	30.294	1	1	0.621
	May 2020	2	5	72	2	1	5	2.5	0.202	5	6.648	1	34.252	4	1	0.785
	November 2020	2	5	67	2	1	5	2.5	0.222	5	6.648	1	41.738	4	1	0.802
	May 2021	3	5	69	2	1	5	2.5	0.300	5	5.165	1	54.17	5	1	0.850
	November 2021	3.000	0.500	78.554	2.000	1.000	5.000	0.500	0.275	5.000	7.202	1.000	45.499	4.696	1.000	0.766
	May 2022	1.408	0.500	76.241	2.000	1.000	5.000	0.500	0.204	5.000	7.183	1.000	42.611	1.023	1.000	0.766
	November 2022	0.297	0.500	77.024	2.000	1.000	5.000	0.500	0.215	5.000	7.183	1.000	47.793	0.000	1.000	0.766
	April 2023	0.297	0.500	77.310	2.000	1.000	5.000	0.500	0.183	5.000	7.183	1.000	25.623	0.157	1.000	0.766
October 2023	0.297	0.500	79.263	2.000	1.000	5.000	0.500	0.181	5.000	5.029	1.000	24.899	0.000	1.000	0.850	
MW-6S	September 2018	1	5	87	2	1	5	2.5	0.167	5	56.080	1	60.220	1	1	0.390
	May 2019	1	5	60	2	1	5	2.5	0.154	5	26.928	1	37.099	1	1	0.397
	November 2019	1	5	67	2	1	5	2.5	0.154	5	29.301	1	41.627	2	1	0.451
	May 2020	1	5	67	2	1	5	2.5	0.160	5	29.814	1	45.727	1	1	0.542
	November 2020	1	5	75	2	1	5	2.5	0.155	5	30.669	1	43.731	5	1	0.697
	May 2021	1	5	93	2	1	5	2.5	0.165	5	74.534	1	97.661	7	1	0.653
	November 2021	1.099	0.500	83.423	2.000	1.000	5.000	0.500	0.165	5.000	80.680	1.000	98.584 90.137 (N=8)	3.386	1.000	0.765
	May 2022	0.764	0.500	80.638	2.000	1.000	5.000	0.500	0.200	5.000	72.068	1.000	91.082 90.410 (N=8) 95.731 (N=16)	3.202	1.000	0.816
	November 2022	DRY WELL; NOT SAMPLED														
	April 2023	0.574	0.5	75.325	2	1	5	0.5	0.2	5	52.553	1	69.279 82.616 (N=8) 94.397 (N=16)	0.728	1	0.816
October 2023	DRY WELL; NOT SAMPLED															

**Table 1: 95% LCL Compared to GWPS
Shallow Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined	
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L	
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5	
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5	
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-	
	Prediction Limit (based on background data through October 2023)	1	5.8	71.0409	0.2	2	10	5.8	0.1	10	20	2	10	1	1	1.78	
MW-7S	September 2018	3	5	103	2	1	5	2.5	0.060	5	108.558	1	132.202	3	1	1.017	
	May 2019	2	5	95	2	1	5	2.5	0.035	5	42.012	1	50.335	3	1	0.847	
	November 2019	2	5	95	2	1	5	2.5	0.035	5	42.012	1	50.335	3	1	0.847	
	May 2020	2	5	68	2	1	5	2.5	0.030	5	13.035	1	12.109	3	1	0.747	
	November 2020	2	2	57	2	1	5	2.332	0.050	5	4.098	1	15.631	6	1	0.299	
	May 2021	2	2	56	2	1	5	2.332	0.050	5	26.464	1	38.333	6	1	0.142	
	November 2021	2.350	1.494	56.195	2.000	1.000	5.000	1.864	0.050	5.000	26.514	1.000	32.098	9.319	1.000	0.209	
	May 2022	2.223	1.494	64.327	2.000	1.000	5.000	1.864	0.050	5.000	26.538	1.000	33.538	11.39	1.000	0.000	
	November 2022	2.079	2.821	80.595	2.000	1.000	5.000	1.864	0.050	5.000	30.856	1.000	32.367	15.115	1.000	0.576	
	April 2023	2.138	0.000	65.384	2.000	1.000	5.000	1.385	0.050	5.000	29.320	1.000	25.177	15.032	1.000	0.538	
October 2023	2.337	0.500	46.610	2.000	1.000	5.000	0.845	0.050	5.000	25.759	1.000	24.898	18.376	1.000	0.544		
MW-10S	September 2018	1	5	65	2	1	5	2.5	0.357	5	76.208	1	170.345	3	1	0.722	
	May 2019	1	5	59	2	1	5	2.5	0.260	5	76.955	1	100.416	1	1	0.779	
	November 2019	1	5	59	2	1	5	2.5	0.260	5	76.955	1	100.416	1	1	0.779	
	May 2020	1	5	61	2	1	5	2.5	0.247	5	75.161	1	76.448	0	1	0.775	
	November 2020	1	5	71	2	1	5	2.5	0.212	5	76.355	1	59.679	0	1	0.875	
	May 2021	2	5	77	2	1	5	2.5	0.205	5	91.428	1	85.547	0	1	0.788	
	November 2021	1.642	5.000	74.818	2.000	1.000	5.000	2.500	0.186	5.000	88.77	1.000	79.201 90.962 (N=8)	0.000	1.000	0.674	
	May 2022	1.678	0.500	72.596	0.100	1.000	5.000	0.500	0.203	5.000	90.725	1.000	62.838 69.064 (N=7)	1.201	0.500	0.767	
	November 2022	DRY WELL; NOT SAMPLED															
	April 2023	1.854	0.5	69.285	0.1	1	5	0.5	0.189	5	86.844	1	51.603	1.216	0.5	0.767	
October 2023	DRY WELL; NOT SAMPLED																

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Shallow Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined		
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L		
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5		
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5		
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-		
	Prediction Limit (based on background data through October 2023)	1	5.8	71.0409	0.2	2	10	5.8	0.1	10	20	2	10	1	1	1.78		
MW-11S	September 2018	2	72	64	2	1	5	2.5	0.272	5	101.369	1	240.525	4	1	0.542		
	May 2019	1	60	61	2	1	5	2.5	0.222	5	102.944	1	163.624	5	1	0.710		
	November 2019	1	60	61	2	1	5	2.5	0.222	5	102.944	1	163.624	5	1	0.710		
	May 2020	2	61	62	2	1	5	2.5	0.212	5	103.225	1	108.327	6	1	0.956		
	November 2020	1	58	57	2	1	5	2.5	0.189	5	101.614	1	61.569	4	1	0.786		
	May 2021	1	80	77	2	1	5	2.5	0.166	5	103.787	1	58.408	4	1	0.658		
	November 2021	1.362	78.834	86.488	2.000	1.000	5.000	2.500	0.144	5.000	107.603	1.000	57.392 98.452 (N=8)	3.606	1.000	0.651		
	May 2022	1.366	77.351	89.461	0.100	1.000	5.000	0.500	0.145	5.000	99.568	1.000	70.119 67.929 (N=7)	3.631	0.500	0.767		
	November 2022	1.304	52.554	85.433	2.000	1.000	5.000	0.500	0.145	5.000	98.178	1.000	58.590	8.410	1.000	0.671		
	April 2023	1.316	44.759	67.048	2.000	1.000	5.000	0.500	0.150	5.000	57.744	1.000	52.767	8.454	1.000	0.671		
October 2023									DRY WELL; NOT SAMPLED									
MW-12S	September 2018	1	1	76	2	1	5	2.5	0.305	5	83.403	1	53.488	2	1	0.378		
	May 2019	1	0	84	2	1	5	2.5	0.262	5	85.346	1	40.399	0	1	0.289		
	November 2019	1	0	84	2	1	5	2.5	0.262	5	85.346	1	40.399	0	1	0.289		
	May 2020	1	1	85	2	1	5	2.5	0.221	5	86.126	1	37.671	0	1	0.257		
	November 2020	1	1	83	2	1	5	2.5	0.219	5	85.287	1	40.495	3	1	0.435		
	May 2021	1	0	100	2	1	5	2.5	0.221	5	99.225	1	41.986	10	1	0.795		
	November 2021	1.198	0.349	100.300	2.000	1.000	5.000	2.500	0.203	5.000	112.428	1.000	35.693	5.598	1.000	0.600		
	May 2022	1.198	0.269	100.764	2.000	1.000	5.000	0.500	0.215	5.000	112.428	1.000	20.149	12.888	1.000	0.523		
	November 2022	1.234	0.314	102.973	2.000	1.000	5.000	0.500	0.212	5.000	110.825	1.000	16.402	8.453	1.000	0.440		
	April 2023	1.416	1.374	119.843	2.000	1.000	5.000	0.500	0.221	5.000	99.932	1.000	23.970	6.055	1.000	0.459		
October 2023	1.346	0.489	117.356	2.000	1.000	5.000	0.500	0.205	5.000	99.932	1.000	14.829	8.026	1.000	0.595			

**Table 1: 95% LCL Compared to GWPS
Shallow Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through October 2023)	1	5.8	71.0409	0.2	2	10	5.8	0.1	10	20	2	10	1	1	1.78

Notes:

MCL - Maximum Contaminant Level based on National Primary Drinking Water Regulations

GWPS - Groundwater Protection Standard

LCL = Lower Confidence Limit

Bold font with gray shading indicates 95% LCL of the mean of the last four measurements that is in exceedance of GWPS.

Bold font with green shading indicates 95% LCL of the mean of the last eight measurements that is in exceedance of GWPS.

Bold font with gold shading indicates 95% LCL of the mean based on a qualitative evaluation of dataset that may or may not have triggered a mean/LCL conflict but visually warranted evaluation of a larger dataset.

ug/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

Std. Units = Standard Units

*USEPA'S *Amendments to the National Minimum Criteria (Phase One, Part One), Disposal of Coal Combustion Residuals from Electric Utilities*; effective August 29, 2018 (page 36444).

Background prediction limits are re-calculated after each sampling event. If a background prediction limit value is utilized as the GWPS, the GWPS for the current summary may be different from previous events.

The 95% LCL statistic is based on the rolling set of the four most recent individual sample results for a parameter.

LCL calculations utilize 1/2 the median non-detect (ND) reporting limit (RL) from the full date range of non-detect sample results. If RL levels changed over time, the current calculated LCL value may be larger than the most recent four ND results.

DUMPStat summary table output limits the number of significant digits reported for a calculated LCL. An exceedingly small calculated LCL value (e.g. 0.00001 mg/L) may simply be reported as 0 in the output summary.

Reporting units of measure for certain constituents in DUMPStat output tables were changed from units of mg/L (ppm) to ug/L (ppb) beginning with November 2021 LCL analysis to allow for reporting of calculated LCLs to more significant digits.

Table updated to include October 2023 assessment sampling results.

**Table 2: 95% LCL Compared to GWPS
Intermediate Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through October 2023)	1	2	49.5105	0.2	2	10	1	0.1	10	20	2	10	1	1	1.9708
MW-11	September 2018	3	5	49	2	1	5	2.5	0.295	5	90.977	1	99.499	5	1	1.468
	May 2019	3	5	54	2	1	5	2.5	0.287	5	95.151	1	99.201	5	1	1.389
	November 2019	3	5	55	2	1	5	2.5	0.297	5	95.543	1	100.675	5	1	1.333
	May 2020	3	5	54	2	1	5	2.5	0.297	5	95.610	1	101.141	5	1	1.421
	November 2020	3	5	54	2	1	5	2.5	0.312	5	91.878	1	101.062	5	1	1.34
	May 2021	3	5	54	2	1	5	2.5	0.267	5	86.999	1	96.761	5	1	1.358
	November 2021	0.500	0.500	51.170	2.000	1.000	5.000	0.500	0.254	5.000	85.368	1.000	96.858 101.612 (N=8)	0.500	1.000	0.906
	May 2022	0.500	0.500	51.044	0.100	1.000	5.000	0.500	0.261	5.000	86.356	1.000	94.541 99.709 (N=7)	0.500	0.500	0.73
	November 2022	0.500	0.500	43.446	0.100	1.000	5.000	0.500	0.258	5.000	86.026	1.000	87.328	0.500	0.500	0.739
	April 2023	0.500	0.500	42.332	0.100	1.000	5.000	0.500	0.270	5.000	85.751	1.000	83.614	0.500	0.500	0.744
October 2023	0.500	0.500	47.205	2.000	1.000	5.000	0.500	0.258	5.000	84.393	1.000	80.987	0.500	1.000	1.221	
MW-21	September 2018	3	5	54	2	1	5	2.5	0.276	5	68.523	1	58.757	5	1	1.822
	May 2019	3	5	51	2	1	5	2.5	0.270	5	68.634	1	56.590	5	1	1.620
	November 2019	3	5	55	2	1	5	2.5	0.268	5	69.665	1	55.609	5	1	1.642
	May 2020	3	5	55	2	1	5	2.5	0.271	5	69.042	1	56.957	5	1	1.988
	November 2020	3	5	59	2	1	5	2.5	0.283	5	63.545	1	62.021	5	1	1.177
	May 2021	3	5	58	2	1	5	2.5	0.198	5	56.314	1	62.455	5	1	0.875
	November 2021	0.500	3.743	59.482	2.000	1.000	5.000	0.500	0.198	5.000	51.013	1.000	58.142	0.500	1.000	0.872
	May 2022	0.500	0	64.2	2.000	1.000	5.000	0.500	0.196	5.000	48.393	1.000	58.127	0.500	1.000	0.839
	November 2022	0.500	0.000	59.712	2.000	1.000	5.000	0.500	0.189	5.000	47.845	1.000	56.972	0.500	1.000	1.166
	April 2023	0.500	0.000	61.626	2.000	1.000	5.000	0.500	0.245	5.000	46.410	1.000	55.265	0.500	1.000	1.206
October 2023	0.500	0.500	64.692	2.000	1.000	5.000	0.500	0.245	5.000	35.195 41.635 (N=6)	1.000	59.744	0.500	1.000	1.191	

**Table 2: 95% LCL Compared to GWPS
Intermediate Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through October 2023)	1	2	49.5105	0.2	2	10	1	0.1	10	20	2	10	1	1	1.9708
MW-3I	September 2018	3	5	55	2	1	5	2.5	0.253	5	36.266	1	54.444	5	1	1.310
	May 2019	3	5	53	2	1	5	2.5	0.255	5	22.662	1	60.185	5	1	1.032
	November 2019	3	5	51	2	1	5	2.5	0.255	5	9.759	1	73.297	5	1	0.919
	May 2020	3	5	52	2	1	5	2.5	0.255	5	11.269	1	73.503	5	1	0.926
	November 2020	3	5	53	2	1	5	2.5	0.283	5	6.642	1	69.134	5	1	0.839
	May 2021	3	5	44	2	1	5	2.5	0.182	5	6.179	1	60.599	5	1	0.734
	November 2021	0.500	0.500	52.140	2.000	1.000	5.000	0.500	0.163	5.000	8.031 13.184 (N=8)	1.000	56.279	0.500	1.000	0.714
	May 2022	0.500	0.500	65.252	0.100	1.000	5.000	0.500	0.163	5.000	8.073	1.000	57.062	0.500	0.500	0.799
	November 2022	0.500	0.500	85.636	2.000	1.000	5.000	0.500	0.163	5.000	11.765	1.000	56.567	0.500	1.000	0.831
	April 2023	0.500	0.500	66.205	2.000	1.000	5.000	0.500	0.228	5.000	11.765	1.000	55.350	0.500	1.000	0.806
October 2023	0.500	0.500	52.626	2.000	1.000	5.000	0.500	0.276	5.000	7.988	1.000	53.420	0.500	1.000	0.944	
MW-6I	September 2018	3	5	39	2	1	5	2.5	0.220	5	87.713	1	173.703	5	1	1.870
	May 2019	3	5	39	2	1	5	2.5	0.207	5	88.502	1	162.008	5	1	0.817
	November 2019	3	5	39	2	1	5	2.5	0.225	5	89.538	1	155.270	5	1	0.893
	May 2020	3	5	44	2	1	5	2.5	0.241	5	89.985	1	169.841	5	1	0.848
	November 2020	3	5	49	2	1	5	2.5	0.235	5	99.601	1	167.176	5	1	0.709
	May 2021	3	5	49	2	1	5	2.5	0.24	5	95.914	1	188.346	5	1	1.066
	November 2021	0.500	0.500	46.877	2.000	1.000	5.000	0.500	0.244	5.000	103.485	1.000	208.561	0.500	1.000	1.066
	May 2022	0.500	0.500	48.578	2.000	1.000	5.000	0.500	0.262	5.000	103.253	1.000	210.081	0.500	1.000	0.9
	November 2022	0.500	0.500	54.518	2.000	1.000	5.000	0.500	0.262	5.000	100.907	1.000	192.596	0.500	1.000	1.161
	April 2023	0.500	0.500	61.461	2.000	1.000	5.000	0.500	0.266	5.000	99.226	1.000	174.124	0.500	1.000	1.358
October 2023	0.500	0.500	62.580	2.000	1.000	5.000	0.500	0.279	5.000	96.773	1.000	158.124	0.500	1.000	1.405	

**Table 2: 95% LCL Compared to GWPS
Intermediate Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through October 2023)	1	2	49.5105	0.2	2	10	1	0.1	10	20	2	10	1	1	1.9708
MW-111	September 2018	3	5	64	2	1	5	2.5	0.303	5	104.856	1	164.551	5	1	1.823
	May 2019	3	5	63	2	1	5	2.5	0.293	5	103.556	1	163.193	5	1	1.727
	November 2019	3	2	62	2	1	5	2.5	0.296	5	101.843	1	157.499	5	1	1.198
	May 2020	3	0	56	2	1	5	2.5	0.29	5	100.971	1	157.499	5	1	1.053
	November 2020	3	0	45	2	1	5	2.5	0.328	5	94.623	1	157.226	5	1	0.886
	May 2021	3	1	44	2	1	5	2.5	0.35	5	94.299	1	151.016	5	1	0.977
	November 2021	0.500	0.000	44.085	2.000	1.000	5.000	0.500	0.358	5.000	92.878	1.000	147.090	0.500	1.000	1.067
	May 2022	0.500	0.519	42.767	2.000	1.000	5.000	0.500	0.356	5.000	92.878	1.000	144.586	0.500	1.000	1.118
	November 2022	0.500	0.802	47.509	2.000	1.000	5.000	0.500	0.357	5.000	101.284	1.000	130.520	0.500	1.000	0.999
	April 2023	0.500	0.673	46.457	2.000	1.000	5.000	0.500	0.361	5.000	95.756	1.000	123.722	0.500	1.000	0.686
October 2023	0.500	0.112	45.811	2.000	1.000	5.000	0.500	0.385	5.000	94.538	1.000	117.757	0.500	1.000	0.577	

Notes:

MCL - Maximum Contaminant Level based on National Primary Drinking Water Regulations

GWPS - Groundwater Protection Standard

LCL = Lower Confidence Limit

Bold font with gray shading indicates 95% LCL of the mean of the last four measurements that is in exceedance of GWPS.

Bold font with green shading indicates 95% LCL of the mean of the last eight measurements that is in exceedance of GWPS.

Bold font with gold shading indicates 95% LCL of the mean based on a qualitative evaluation of dataset that may or may not have triggered a mean/LCL conflict but visually warranted evaluation of a larger dataset.

ug/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

Std. Units = Standard Units

*USEPA'S *Amendments to the National Minimum Criteria (Phase One, Part One), Disposal of Coal Combustion Residuals from Electric Utilities*; effective August 29, 2018 (page 36444).

Background prediction limits are re-calculated after each sampling event. If a background prediction limit value is utilized as the GWPS, the GWPS for the current summary may be different from previous events.

The 95% LCL statistic is based on the rolling set of the four most recent individual sample results for a parameter.

LCL calculations utilize 1/2 the median non-detect (ND) reporting limit (RL) from the full date range of non-detect sample results. If RL levels changed over time, the current calculated LCL value may be larger than the most recent four ND results.

DUMPStat summary table output limits the number of significant digits reported for a calculated LCL. An exceedingly small calculated LCL value (e.g. 0.00001 mg/L) may simply be reported as 0 in the output summary.

Reporting units of measure for certain constituents in DUMPStat output tables were changed from units of mg/L (ppm) to ug/L (ppb) beginning with November 2021 LCL analysis to allow for reporting of calculated LCLs to more significant digits.

Table updated to include October 2023 assessment sampling results.

**Table 3: 95% LCL Compared to GWPS
Deep Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through October 2023)	1	1.3	72.2703	0.2	2	10	1.2	0.12	10	20	2	10	1.3	1	2.3664
MW-1D	September 2018	3	1	68	2	1	5	2.5	0.322	5	88.543	1	107.001	5	1	1.191
	May 2019	3	0	68	2	1	5	2.5	0.313	5	88.724	1	106.551	5	1	1.241
	November 2019	3	1	67	2	1	5	2.5	0.325	5	87.806	1	106.551	5	1	0.852
	May 2020	3	1	65	2	1	5	2.5	0.325	5	87.616	1	112.025	5	1	0.884
	November 2020	3	1	59	2	1	5	2.5	0.353	5	83.667	1	113.599	5	1	0.741
	May 2021	3	2	56	2	1	5	2.5	0.320	5	80.921	1	107.008	5	1	0.897
	November 2021	0.500	1.375	57.460	2.000	1.000	5.000	0.500	0.293	5.000	80.908	1.000	106.239	0.500	1.000	0.832
	May 2022	0.500	1.859	58.295	2.000	1.000	5.000	0.500	0.288	5.000	79.923	1.000	103.545	0.500	1.000	0.425
	November 2022	0.500	1.804	58.039	2.000	1.000	5.000	0.500	0.285	5.000	78.741	1.000	100.285	0.500	1.000	0.366
	April 2023	0.500	1.484	58.522	2.000	1.000	5.000	0.500	0.295	5.000	80.510	1.000	95.767 103.288 (N=8)	0.500	1.000	0.392
October 2023	0.500	1.682	58.776	2.000	1.000	5.000	0.500	0.307	5.000	80.456	1.000	92.311 96.156 (N=6)	0.500	1.000	0.604	
MW-2D	September 2018	3	3	42	2	1	5	2.5	0.290	5	72.668	1	103.757	5	1	1.668
	May 2019	3	3	40	2	1	5	2.5	0.289	5	71.147	1	92.570	5	1	1.351
	November 2019	3	3	42	2	1	5	2.5	0.295	5	69.227	1	85.261	5	1	1.382
	May 2020	3	3	42	2	1	5	2.5	0.293	5	68.124	1	90.588	5	1	1.387
	November 2020	3	3	48	2	1	5	2.5	0.32	5	55.784	1	78.723	5	1	0.953
	May 2021	3	3	50	2	1	5	2.5	0.214	5	47.570	1	67.418	5	1	0.770
	November 2021	0.500	3.491	56.257	2.000	1.000	5.000	0.500	0.200	5.000	43.140	1.000	62.003 76.519 (N=8)	0.500	1.000	0.768
	May 2022	0.500	1.042	61.939	0.100	1.000	5.000	0.500	0.199	5.000	49.633	1.000	59.692	0.500	0.500	0.802
	November 2022	0.500	1.048	65.920	0.100	1.000	5.000	0.500	0.204	5.000	49.076	1.000	53.602	0.500	0.500	0.723
	April 2023	0.500	1.035	65.171	0.100	1.000	5.000	0.500	0.265	5.000	47.875	1.000	46.847	0.500	0.500	0.613
October 2023	0.500	3.546	62.554	0.100	1.000	5.000	0.500	0.279	5.000	36.939 42.106 (N=6)	1.000	45.336	0.500	0.500	0.630	

**Table 3: 95% LCL Compared to GWPS
Deep Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through October 2023)	1	1.3	72.2703	0.2	2	10	1.2	0.12	10	20	2	10	1.3	1	2.3664
MW-6D	September 2018	3	5	48	2	1	5	2.5	0.107	5	90.432	1	192.856	5	1	0.758
	May 2019	3	5	48	2	1	5	2.5	0.107	5	92.149	1	190.163	5	1	1.004
	November 2019	3	5	48	2	1	5	2.5	0.112	5	90.092	1	176.356	5	1	0.968
	May 2020	3	5	51	2	1	5	2.5	0.117	5	88.906	1	176.534	5	1	1.265
	November 2020	3	5	50	2	1	5	2.5	0.129	5	82.687	1	175.267	5	1	1.098
	May 2021	3	5	48	2	1	5	2.5	0.129	5	80.284	1	174.337	5	1	0.994
	November 2021	0.500	0.500	48.419	2.000	1.000	5.000	0.500	0.135	5.000	78.871	1.000	187.994	0.500	1.000	0.931
	May 2022	0.229	0.500	48.469	2.000	1.000	5.000	0.500	0.157	5.000	80.281	1.000	201.327	0.500	1.000	0.924
	November 2022	0.229	0.500	51.647	2.000	1.000	5.000	0.500	0.161	5.000	80.023	1.000	201.327	0.500	1.000	0.827
	April 2023	0.229	0.500	55.453	2.000	1.000	5.000	0.500	0.172	5.000	71.491	1.000	198.895	0.500	1.000	0.818
October 2023	0.229	0.500	57.251	2.000	1.000	5.000	0.500	0.166	5.000	68.663	1.000	203.944	0.500	1.000	0.787	
MW-11D	September 2018	3	0	30	2	1	0	0	0.168	0	75.647	1	160.572	5	1	0.976
	May 2019	3	5	67	2	1	0	2.5	0.173	0	83.997	1	158.480	5	1	0.936
	November 2019	3	5	68	2	1	0	2.5	0.175	0	84.526	1	153.252	5	1	0.901
	May 2020	3	5	64	2	1	5	2.5	0.169	5	84.647	1	155.670	5	1	0.778
	November 2020	3	5	54	2	1	5	2.5	0.192	5	86.900	1	163.226	5	1	0.763
	May 2021	3	5	50	2	1	5	0.5	0.207	5	83.277	1	163.168	5	1	0
	November 2021	0.500	4.569	51.020	2.000	1.000	5.000	0.500	0.231	5.000	80.633	1.000	168.951	0.500	1.000	0
	May 2022	0.500	4.487	50.747	2.000	1.000	5.000	0.500	0.222	5.000	82.424	1.000	166.226	0.500	1.000	0
	November 2022	0.500	4.721	52.039	2.000	1.000	5.000	0.500	0.228	5.000	80.960	1.000	159.316	0.500	1.000	0.000
	April 2023	0.500	4.831	51.412	2.000	1.000	5.000	0.196	0.237	5.000	78.587	1.000	147.927	0.500	1.000	0.877
October 2023	0.500	4.864	52.200	2.000	1.000	5.000	0.196	0.273	5.000	78.717	1.000	134.442	0.500	1.000	0.733	

**Table 3: 95% LCL Compared to GWPS
Deep Zone
Multiunit Ash Pond System
AES Indiana
Eagle Valley Generating Station, Martinsville, Indiana
ATC Project No. 170LF01502**

Sample ID	Through Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
	GWPS (greater of MCL/USEPA Amendment Level, or background PL)	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
	MCL	6	10	2000	4	5	100	-	4	15	-	2	-	50	2	5
	USEPA'S Amendments to the National Minimum Criteria*	-	-	-	-	-	-	6	-	15	40	-	100	-	-	-
	Prediction Limit (based on background data through October 2023)	1	1.3	72.2703	0.2	2	10	1.2	0.12	10	20	2	10	1.3	1	2.3664

Notes:

MCL - Maximum Contaminant Level based on National Primary Drinking Water Regulations

GWPS - Groundwater Protection Standard

LCL = Lower Confidence Limit

Bold font with gray shading indicates 95% LCL of the mean of the last four measurements that is in exceedance of GWPS.

Bold font with green shading indicates 95% LCL of the mean of the last eight measurements that is in exceedance of GWPS.

Bold font with gold shading indicates 95% LCL of the mean based on a qualitative evaluation of dataset that may or may not have triggered a mean/LCL conflict but visually warranted evaluation of a larger dataset.

ug/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

Std. Units = Standard Units

*USEPA'S *Amendments to the National Minimum Criteria (Phase One, Part One), Disposal of Coal Combust*

Background prediction limits are re-calculated after each sampling event. If a background prediction limit value is utilized as the GWPS, the GWPS for the current summary may be different from previous events.

The 95% LCL statistic is based on the rolling set of the four most recent individual sample results for a parameter.

LCL calculations utilize 1/2 the median non-detect (ND) reporting limit (RL) from the full date range of non-detect sample results. If RL levels changed over time, the current calculated LCL value may be larger than the most recent four ND results.

DUMPStat summary table output limits the number of significant digits reported for a calculated LCL. An exceedingly small calculated LCL value (e.g. 0.00001 mg/L) may simply be reported as 0 in the output summary.

Reporting units of measure for certain constituents in DUMPStat output tables were changed from units of mg/L (ppm) to ug/L (ppb) beginning with November 2021 LCL analysis to allow for reporting of calculated LCLs to more significant digits.

Table updated to include October 2023 assessment sampling results.

April 2024

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-10S	4	2.200	0.283	1.176	1.867	2.533	6.000		
Antimony, Total	ug/L	MW-11S	4	1.350	0.058	1.176	1.282	1.418	6.000	dec	
Antimony, Total	ug/L	MW-12S	4	1.700	0.245	1.176	1.412	1.988	6.000		
Antimony, Total	ug/L	MW-1S	4	2.250	0.733	1.176	1.388	3.112	6.000		
Antimony, Total	ug/L	MW-2S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-3S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-6S	4	1.625	0.925	1.176	0.537	2.713	6.000		
Antimony, Total	ug/L	MW-7S	4	2.700	0.245	1.176	2.412	2.988	6.000		
Arsenic, Total	ug/L	MW-10S	4	0.900	0.800	1.176	0.000	1.841	10.000		
Arsenic, Total	ug/L	MW-11S	4	72.125	23.451	1.176	44.540	99.710	10.000	dec	**
Arsenic, Total	ug/L	MW-12S	4	3.325	1.938	1.176	1.045	5.605	10.000		
Arsenic, Total	ug/L	MW-1S	4	4.450	2.583	1.176	1.412	7.488	10.000		
Arsenic, Total	ug/L	MW-2S	4	8.225	3.806	1.176	3.748	12.702	10.000		
Arsenic, Total	ug/L	MW-3S	4	0.500	0.000	1.176	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-6S	4	0.500	0.000	1.176	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-7S	4	0.500	0.000	1.176	0.500	0.500	10.000		
Barium, Total	ug/L	MW-10S	4	82.700	11.602	1.176	69.053	96.347	2000.000		
Barium, Total	ug/L	MW-11S	4	99.325	35.438	1.176	57.640	141.010	2000.000	inc	
Barium, Total	ug/L	MW-12S	4	137.500	24.076	1.176	109.179	165.821	2000.000		
Barium, Total	ug/L	MW-1S	4	80.375	21.863	1.176	54.658	106.092	2000.000		
Barium, Total	ug/L	MW-2S	4	124.850	34.692	1.176	84.042	165.658	2000.000		
Barium, Total	ug/L	MW-3S	4	100.500	14.673	1.176	83.240	117.760	2000.000		
Barium, Total	ug/L	MW-6S	4	87.900	11.245	1.176	74.673	101.127	2000.000		
Barium, Total	ug/L	MW-7S	4	66.400	23.357	1.176	38.925	93.875	2000.000	dec	
Beryllium, Total	ug/L	MW-10S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-11S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-12S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-1S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-2S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-3S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-6S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-7S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Cadmium, Total	ug/L	MW-10S	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-11S	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-12S	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1S	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-2S	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-3S	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6S	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-7S	4	1.000	0.000	1.176	1.000	1.000	5.000		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Chromium, Total	ug/L	MW-10S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-11S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-12S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-3S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-7S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-10S	4	0.775	0.550	1.176	0.128	1.422	6.000		
Cobalt, Total	ug/L	MW-11S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-12S	4	0.800	0.600	1.176	0.094	1.506	6.000		
Cobalt, Total	ug/L	MW-1S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-3S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6S	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-7S	4	1.150	0.443	1.176	0.628	1.672	6.000		
Fluoride	mg/L	MW-10S	4	0.188	0.042	1.176	0.138	0.237	4.000	dec	
Fluoride	mg/L	MW-11S	4	0.190	0.018	1.176	0.169	0.211	4.000	dec	
Fluoride	mg/L	MW-12S	4	0.238	0.029	1.176	0.204	0.271	4.000	dec	
Fluoride	mg/L	MW-1S	4	0.133	0.067	1.176	0.054	0.211	4.000	dec	
Fluoride	mg/L	MW-2S	4	0.168	0.030	1.176	0.132	0.203	4.000		
Fluoride	mg/L	MW-3S	4	0.270	0.057	1.176	0.203	0.337	4.000		
Fluoride	mg/L	MW-6S	4	0.230	0.040	1.176	0.183	0.277	4.000		
Fluoride	mg/L	MW-7S	4	0.050	0.000	1.176	0.050	0.050	4.000		
Lead, Total	ug/L	MW-10S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-12S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-3S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-7S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-10S	4	90.650	14.438	1.176	73.666	107.634	40.000		**
Lithium, Total	ug/L	MW-11S	4	83.875	45.915	1.176	29.866	137.884	40.000		**
Lithium, Total	ug/L	MW-12S	4	125.675	19.126	1.176	103.177	148.173	40.000	inc	**
Lithium, Total	ug/L	MW-1S	4	69.850	13.667	1.176	53.774	85.926	40.000		**
Lithium, Total	ug/L	MW-2S	4	39.525	6.709	1.176	31.633	47.417	40.000	dec	
Lithium, Total	ug/L	MW-3S	4	10.000	0.000	1.176	10.000	10.000	40.000	dec	
Lithium, Total	ug/L	MW-6S	4	79.850	24.264	1.176	51.308	108.392	40.000		**
Lithium, Total	ug/L	MW-7S	4	52.625	25.325	1.176	22.835	82.415	40.000	dec	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Mercury	ug/L	MW-10S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-11S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-12S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-1S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-2S	4	0.100	0.000	1.176	0.100	0.100	2.000	
Mercury	ug/L	MW-3S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-6S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Mercury	ug/L	MW-7S	4	1.000	0.000	1.176	1.000	1.000	2.000	
Molybdenum, Total	ug/L	MW-10S	4	59.600	13.544	1.176	43.668	75.532	100.000	dec
Molybdenum, Total	ug/L	MW-11S	4	64.975	10.234	1.176	52.937	77.013	100.000	dec
Molybdenum, Total	ug/L	MW-12S	4	28.975	9.975	1.176	17.241	40.709	100.000	dec
Molybdenum, Total	ug/L	MW-1S	4	22.525	10.505	1.176	10.168	34.882	100.000	dec
Molybdenum, Total	ug/L	MW-2S	4	7.225	4.450	1.176	1.991	12.459	100.000	
Molybdenum, Total	ug/L	MW-3S	4	40.525	13.724	1.176	24.382	56.668	100.000	
Molybdenum, Total	ug/L	MW-6S	4	104.500	37.928	1.176	59.886	149.114	100.000	
Molybdenum, Total	ug/L	MW-7S	4	30.500	8.470	1.176	20.536	40.464	100.000	dec
Selenium, Total	ug/L	MW-10S	4	10.600	17.134	1.176	0.000	30.755	50.000	
Selenium, Total	ug/L	MW-11S	4	11.550	1.613	1.176	9.652	13.448	50.000	
Selenium, Total	ug/L	MW-12S	4	21.400	9.966	1.176	9.678	33.122	50.000	
Selenium, Total	ug/L	MW-1S	4	22.525	6.485	1.176	14.897	30.153	50.000	
Selenium, Total	ug/L	MW-2S	4	10.250	10.478	1.176	0.000	22.576	50.000	
Selenium, Total	ug/L	MW-3S	4	2.525	3.242	1.176	0.000	6.338	50.000	
Selenium, Total	ug/L	MW-6S	4	21.175	15.022	1.176	3.504	38.846	50.000	
Selenium, Total	ug/L	MW-7S	4	21.950	3.795	1.176	17.486	26.414	50.000	inc
Thallium, Total	ug/L	MW-10S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-11S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-12S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-1S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-2S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-3S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-6S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-7S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Total Radium	pCi/L	MW-10S	4	1.217	0.338	1.176	0.819	1.615	5.000	
Total Radium	pCi/L	MW-11S	4	0.791	0.022	1.176	0.765	0.817	5.000	
Total Radium	pCi/L	MW-12S	4	0.975	0.202	1.176	0.737	1.213	5.000	
Total Radium	pCi/L	MW-1S	4	0.815	0.000	1.176	0.815	0.815	5.000	
Total Radium	pCi/L	MW-2S	4	0.728	0.015	1.176	0.710	0.745	5.000	
Total Radium	pCi/L	MW-3S	4	0.850	0.000	1.176	0.850	0.850	5.000	
Total Radium	pCi/L	MW-6S	4	1.078	0.250	1.176	0.783	1.372	5.000	
Total Radium	pCi/L	MW-7S	4	0.905	0.215	1.176	0.651	1.158	5.000	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-10S	8	2.225	0.450	0.670	1.924	2.526	6.000		
Antimony, Total	ug/L	MW-11S	8	1.413	0.099	0.670	1.346	1.479	6.000		
Antimony, Total	ug/L	MW-12S	8	1.525	0.260	0.670	1.351	1.699	6.000		
Antimony, Total	ug/L	MW-1S	8	2.163	0.609	0.670	1.754	2.571	6.000		
Antimony, Total	ug/L	MW-2S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-3S	8	0.575	0.212	0.670	0.433	0.717	6.000		
Antimony, Total	ug/L	MW-6S	8	1.175	0.320	0.670	0.961	1.389	6.000		
Antimony, Total	ug/L	MW-7S	8	2.838	0.472	0.670	2.521	3.154	6.000		
Arsenic, Total	ug/L	MW-10S	8	0.700	0.566	0.670	0.321	1.079	10.000		
Arsenic, Total	ug/L	MW-11S	8	90.663	30.233	0.670	70.412	110.913	10.000		**
Arsenic, Total	ug/L	MW-12S	8	2.838	1.795	0.670	1.635	4.040	10.000		
Arsenic, Total	ug/L	MW-1S	8	4.613	1.905	0.670	3.336	5.889	10.000	dec	
Arsenic, Total	ug/L	MW-2S	8	10.150	3.534	0.670	7.783	12.517	10.000		
Arsenic, Total	ug/L	MW-3S	8	0.500	0.000	0.670	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-6S	8	0.500	0.000	0.670	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-7S	8	0.888	0.741	0.670	0.391	1.384	10.000		
Barium, Total	ug/L	MW-10S	8	85.513	10.417	0.670	78.535	92.490	2000.000		
Barium, Total	ug/L	MW-11S	8	105.450	27.857	0.670	86.791	124.109	2000.000		
Barium, Total	ug/L	MW-12S	8	126.675	21.280	0.670	112.421	140.929	2000.000	inc	
Barium, Total	ug/L	MW-1S	8	80.338	16.457	0.670	69.314	91.361	2000.000		
Barium, Total	ug/L	MW-2S	8	125.050	24.755	0.670	108.469	141.631	2000.000		
Barium, Total	ug/L	MW-3S	8	103.913	20.121	0.670	90.435	117.390	2000.000		
Barium, Total	ug/L	MW-6S	8	98.538	16.314	0.670	87.610	109.465	2000.000		
Barium, Total	ug/L	MW-7S	8	75.663	21.524	0.670	61.246	90.079	2000.000		
Beryllium, Total	ug/L	MW-10S	8	0.100	0.000	0.670	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-11S	5	0.100	0.000	0.953	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-12S	8	0.100	0.000	0.670	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-1S	8	0.100	0.000	0.670	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-2S	5	0.100	0.000	0.953	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-3S	8	0.100	0.000	0.670	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-6S	5	0.100	0.000	0.953	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-7S	4	0.100	0.000	1.176	0.100	0.100	4.000		
Cadmium, Total	ug/L	MW-10S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-11S	5	1.000	0.000	0.953	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-12S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-2S	5	1.000	0.000	0.953	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-3S	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6S	5	1.000	0.000	0.953	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-7S	4	1.000	0.000	1.176	1.000	1.000	5.000		

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 LCL = Lower Confidence Limit
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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Chromium, Total	ug/L	MW-10S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-11S	5	5.000	0.000	0.953	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-12S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2S	5	5.000	0.000	0.953	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-3S	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6S	5	5.000	0.000	0.953	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-7S	4	5.000	0.000	1.176	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-10S	8	0.638	0.389	0.670	0.377	0.898	6.000		
Cobalt, Total	ug/L	MW-11S	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-12S	8	0.650	0.424	0.670	0.366	0.934	6.000		
Cobalt, Total	ug/L	MW-1S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-3S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6S	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-7S	7	1.643	1.247	0.734	0.727	2.559	6.000		
Fluoride	mg/L	MW-10S	8	0.217	0.048	0.670	0.185	0.250	4.000	dec	
Fluoride	mg/L	MW-11S	8	0.186	0.025	0.670	0.169	0.203	4.000		
Fluoride	mg/L	MW-12S	8	0.245	0.029	0.670	0.225	0.265	4.000	dec	
Fluoride	mg/L	MW-1S	8	0.134	0.067	0.670	0.089	0.179	4.000	dec	
Fluoride	mg/L	MW-2S	8	0.153	0.029	0.670	0.133	0.172	4.000		
Fluoride	mg/L	MW-3S	8	0.283	0.065	0.670	0.239	0.326	4.000		
Fluoride	mg/L	MW-6S	8	0.221	0.038	0.670	0.196	0.247	4.000		
Fluoride	mg/L	MW-7S	8	0.050	0.000	0.670	0.050	0.050	4.000		
Lead, Total	ug/L	MW-10S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11S	5	5.000	0.000	0.953	5.000	5.000	15.000		
Lead, Total	ug/L	MW-12S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2S	5	5.000	0.000	0.953	5.000	5.000	15.000		
Lead, Total	ug/L	MW-3S	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6S	5	5.000	0.000	0.953	5.000	5.000	15.000		
Lead, Total	ug/L	MW-7S	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-10S	8	96.025	12.376	0.670	87.735	104.315	40.000		**
Lithium, Total	ug/L	MW-11S	8	102.313	36.682	0.670	77.743	126.882	40.000		**
Lithium, Total	ug/L	MW-12S	8	123.463	13.656	0.670	114.316	132.609	40.000	inc	**
Lithium, Total	ug/L	MW-1S	8	83.150	20.788	0.670	69.226	97.074	40.000		**
Lithium, Total	ug/L	MW-2S	8	48.800	14.218	0.670	39.277	58.323	40.000	dec	
Lithium, Total	ug/L	MW-3S	8	13.888	7.213	0.670	9.056	18.719	40.000	dec	
Lithium, Total	ug/L	MW-6S	8	83.338	17.692	0.670	71.487	95.188	40.000		**
Lithium, Total	ug/L	MW-7S	8	41.325	20.605	0.670	27.523	55.127	40.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Mercury	ug/L	MW-10S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-11S	5	0.100	0.000	0.953	0.100	0.100	2.000	
Mercury	ug/L	MW-12S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-1S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-2S	5	0.100	0.000	0.953	0.100	0.100	2.000	
Mercury	ug/L	MW-3S	8	1.000	0.000	0.670	1.000	1.000	2.000	
Mercury	ug/L	MW-6S	5	0.100	0.000	0.953	0.100	0.100	2.000	
Mercury	ug/L	MW-7S	4	0.100	0.000	1.176	0.100	0.100	2.000	
Molybdenum, Total	ug/L	MW-10S	8	75.625	19.587	0.670	62.506	88.744	100.000	dec
Molybdenum, Total	ug/L	MW-11S	8	74.550	19.262	0.670	61.648	87.452	100.000	
Molybdenum, Total	ug/L	MW-12S	8	38.113	19.120	0.670	25.306	50.919	100.000	dec
Molybdenum, Total	ug/L	MW-1S	8	26.688	13.491	0.670	17.651	35.724	100.000	dec
Molybdenum, Total	ug/L	MW-2S	8	9.013	4.391	0.670	6.071	11.954	100.000	
Molybdenum, Total	ug/L	MW-3S	8	49.388	15.692	0.670	38.877	59.898	100.000	
Molybdenum, Total	ug/L	MW-6S	8	119.337	35.792	0.670	95.363	143.312	100.000	
Molybdenum, Total	ug/L	MW-7S	8	40.750	15.661	0.670	30.260	51.240	100.000	
Selenium, Total	ug/L	MW-10S	8	7.388	12.282	0.670	0.000	15.614	50.000	
Selenium, Total	ug/L	MW-11S	8	10.038	3.350	0.670	7.793	12.282	50.000	
Selenium, Total	ug/L	MW-12S	8	18.275	7.437	0.670	13.294	23.256	50.000	
Selenium, Total	ug/L	MW-1S	8	20.325	7.098	0.670	15.571	25.079	50.000	
Selenium, Total	ug/L	MW-2S	8	13.563	10.596	0.670	6.465	20.660	50.000	
Selenium, Total	ug/L	MW-3S	8	4.363	6.100	0.670	0.276	8.449	50.000	
Selenium, Total	ug/L	MW-6S	8	16.288	11.406	0.670	8.648	23.927	50.000	
Selenium, Total	ug/L	MW-7S	8	23.613	8.309	0.670	18.047	29.178	50.000	
Thallium, Total	ug/L	MW-10S	8	0.500	0.000	0.670	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-11S	5	0.500	0.000	0.953	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-12S	8	0.500	0.000	0.670	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-1S	8	0.500	0.000	0.670	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-2S	5	0.500	0.000	0.953	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-3S	8	0.500	0.000	0.670	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-6S	5	0.500	0.000	0.953	0.500	0.500	2.000	
Thallium, Total	ug/L	MW-7S	4	0.500	0.000	1.176	0.500	0.500	2.000	
Total Radium	pCi/L	MW-10S	8	1.278	0.384	0.670	1.021	1.535	5.000	
Total Radium	pCi/L	MW-11S	8	0.845	0.050	0.670	0.812	0.878	5.000	
Total Radium	pCi/L	MW-12S	8	0.828	0.224	0.670	0.679	0.978	5.000	
Total Radium	pCi/L	MW-1S	8	0.832	0.047	0.670	0.800	0.863	5.000	
Total Radium	pCi/L	MW-2S	8	1.120	0.857	0.670	0.546	1.694	5.000	
Total Radium	pCi/L	MW-3S	8	0.837	0.035	0.670	0.814	0.861	5.000	
Total Radium	pCi/L	MW-6S	8	1.078	0.288	0.670	0.885	1.271	5.000	
Total Radium	pCi/L	MW-7S	8	1.261	0.863	0.670	0.683	1.839	5.000	

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Table 1

Confidence Intervals for Comparing the Mean of the Last 16 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Antimony, Total	ug/L	MW-10S	16	2.388	0.672	0.438	2.093	2.682	6.000	
Antimony, Total	ug/L	MW-11S	16	2.187	1.288	0.438	1.623	2.752	6.000	dec
Antimony, Total	ug/L	MW-12S	16	1.862	0.706	0.438	1.553	2.172	6.000	
Antimony, Total	ug/L	MW-1S	16	2.675	0.886	0.438	2.287	3.063	6.000	
Antimony, Total	ug/L	MW-2S	16	0.500	0.000	0.438	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-3S	16	0.594	0.262	0.438	0.479	0.709	6.000	
Antimony, Total	ug/L	MW-6S	16	2.038	0.889	0.438	1.648	2.427	6.000	
Antimony, Total	ug/L	MW-7S	16	2.813	0.467	0.438	2.608	3.017	6.000	
Arsenic, Total	ug/L	MW-10S	16	0.600	0.400	0.438	0.425	0.775	10.000	
Arsenic, Total	ug/L	MW-11S	16	90.763	30.574	0.438	77.365	104.160	10.000	**
Arsenic, Total	ug/L	MW-12S	16	3.081	1.760	0.438	2.310	3.853	10.000	
Arsenic, Total	ug/L	MW-1S	16	6.381	3.527	0.438	4.836	7.927	10.000	dec
Arsenic, Total	ug/L	MW-2S	16	12.306	6.502	0.436	9.469	15.144	10.000	
Arsenic, Total	ug/L	MW-3S	16	0.500	0.000	0.438	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-6S	16	0.500	0.000	0.438	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-7S	16	0.694	0.545	0.438	0.455	0.932	10.000	
Barium, Total	ug/L	MW-10S	16	76.913	11.497	0.438	71.875	81.950	2000.000	
Barium, Total	ug/L	MW-11S	16	88.563	26.211	0.438	77.077	100.048	2000.000	
Barium, Total	ug/L	MW-12S	16	112.469	27.286	0.438	100.512	124.425	2000.000	inc
Barium, Total	ug/L	MW-1S	16	78.519	14.612	0.438	72.116	84.922	2000.000	
Barium, Total	ug/L	MW-2S	16	151.838	40.758	0.438	133.978	169.697	2000.000	
Barium, Total	ug/L	MW-3S	16	96.450	20.374	0.438	87.522	105.378	2000.000	
Barium, Total	ug/L	MW-6S	16	108.962	27.893	0.438	96.740	121.185	2000.000	dec
Barium, Total	ug/L	MW-7S	16	93.544	28.974	0.438	80.848	106.240	2000.000	dec
Beryllium, Total	ug/L	MW-10S	15	2.000	0.000	0.455	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-11S	15	2.000	0.000	0.455	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-12S	15	2.000	0.000	0.455	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-1S	15	2.000	0.000	0.455	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-2S	11	0.100	0.000	0.546	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-3S	15	2.000	0.000	0.455	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-6S	15	2.000	0.000	0.455	2.000	2.000	4.000	
Beryllium, Total	ug/L	MW-7S	15	2.000	0.000	0.455	2.000	2.000	4.000	
Cadmium, Total	ug/L	MW-10S	15	1.000	0.000	0.455	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-11S	15	1.000	0.000	0.455	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-12S	15	1.000	0.000	0.455	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-1S	15	1.000	0.000	0.455	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-2S	11	1.000	0.000	0.546	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-3S	15	1.000	0.000	0.455	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-6S	15	1.000	0.000	0.455	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-7S	15	1.000	0.000	0.455	1.000	1.000	5.000	

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Table 1

Confidence Intervals for Comparing the Mean of the Last 16 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Chromium, Total	ug/L	MW-10S	15	5.000	0.000	0.455	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-11S	15	5.000	0.000	0.455	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-12S	15	5.000	0.000	0.455	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1S	15	5.000	0.000	0.455	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2S	11	5.000	0.000	0.546	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-3S	15	5.000	0.000	0.455	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6S	15	5.000	0.000	0.455	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-7S	15	5.000	0.000	0.455	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-10S	16	0.569	0.275	0.438	0.448	0.689	6.000		
Cobalt, Total	ug/L	MW-11S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-12S	16	0.575	0.300	0.438	0.444	0.706	6.000		
Cobalt, Total	ug/L	MW-1S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2S	16	0.531	0.125	0.438	0.476	0.586	6.000		
Cobalt, Total	ug/L	MW-3S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6S	16	0.500	0.000	0.438	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-7S	16	2.375	0.644	0.438	2.093	2.657	6.000		
Fluoride	mg/L	MW-10S	16	0.296	0.089	0.438	0.257	0.334	4.000	dec	
Fluoride	mg/L	MW-11S	16	0.258	0.088	0.438	0.219	0.296	4.000	dec	
Fluoride	mg/L	MW-12S	16	0.313	0.107	0.438	0.265	0.360	4.000	dec	
Fluoride	mg/L	MW-1S	16	0.227	0.138	0.438	0.167	0.287	4.000	dec	
Fluoride	mg/L	MW-2S	16	0.184	0.072	0.438	0.153	0.216	4.000		
Fluoride	mg/L	MW-3S	16	0.287	0.059	0.438	0.261	0.313	4.000		
Fluoride	mg/L	MW-6S	16	0.214	0.035	0.438	0.199	0.230	4.000		
Fluoride	mg/L	MW-7S	16	0.077	0.042	0.438	0.059	0.095	4.000		
Lead, Total	ug/L	MW-10S	15	5.000	0.000	0.455	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11S	15	5.000	0.000	0.455	5.000	5.000	15.000		
Lead, Total	ug/L	MW-12S	15	5.000	0.000	0.455	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1S	15	5.000	0.000	0.455	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2S	11	5.000	0.000	0.546	5.000	5.000	15.000		
Lead, Total	ug/L	MW-3S	15	5.000	0.000	0.455	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6S	15	5.000	0.000	0.455	5.000	5.000	15.000		
Lead, Total	ug/L	MW-7S	15	6.280	2.697	0.455	5.054	7.506	15.000		
Lithium, Total	ug/L	MW-10S	16	96.869	11.241	0.438	91.943	101.794	40.000		**
Lithium, Total	ug/L	MW-11S	16	103.506	25.247	0.438	92.443	114.569	40.000		**
Lithium, Total	ug/L	MW-12S	16	109.363	18.974	0.438	101.048	117.677	40.000	inc	**
Lithium, Total	ug/L	MW-1S	16	94.969	21.587	0.438	85.509	104.428	40.000		**
Lithium, Total	ug/L	MW-2S	16	72.200	26.733	0.438	60.486	83.914	40.000	dec	**
Lithium, Total	ug/L	MW-3S	16	23.638	17.737	0.438	15.866	31.409	40.000	dec	**
Lithium, Total	ug/L	MW-6S	16	74.156	20.390	0.438	65.222	83.091	40.000		**
Lithium, Total	ug/L	MW-7S	16	77.969	55.051	0.438	53.846	102.091	40.000	dec	**

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Table 1

Confidence Intervals for Comparing the Mean of the Last 16 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-10S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Mercury	ug/L	MW-11S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Mercury	ug/L	MW-12S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Mercury	ug/L	MW-1S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Mercury	ug/L	MW-2S	11	1.000	0.000	0.546	1.000	1.000	2.000		
Mercury	ug/L	MW-3S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Mercury	ug/L	MW-6S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Mercury	ug/L	MW-7S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-10S	16	134.688	63.486	0.438	106.869	162.506	100.000	dec	**
Molybdenum, Total	ug/L	MW-11S	16	162.150	98.227	0.438	119.108	205.192	100.000	dec	**
Molybdenum, Total	ug/L	MW-12S	16	60.369	36.465	0.438	44.390	76.347	100.000	dec	
Molybdenum, Total	ug/L	MW-1S	16	34.913	16.893	0.438	27.510	42.315	100.000	dec	
Molybdenum, Total	ug/L	MW-2S	16	19.506	20.213	0.438	10.649	28.363	100.000	dec	
Molybdenum, Total	ug/L	MW-3S	16	48.525	12.824	0.438	42.906	54.144	100.000		
Molybdenum, Total	ug/L	MW-6S	16	108.200	35.185	0.438	92.782	123.618	100.000		
Molybdenum, Total	ug/L	MW-7S	16	92.463	71.719	0.438	61.036	123.889	100.000	dec	
Selenium, Total	ug/L	MW-10S	16	6.056	8.519	0.438	2.323	9.789	50.000		
Selenium, Total	ug/L	MW-11S	16	8.094	3.298	0.438	6.649	9.539	50.000		
Selenium, Total	ug/L	MW-12S	16	15.319	11.781	0.438	10.156	20.481	50.000		
Selenium, Total	ug/L	MW-1S	16	17.338	6.976	0.438	14.281	20.394	50.000		
Selenium, Total	ug/L	MW-2S	16	16.206	23.491	0.438	5.913	26.500	50.000		
Selenium, Total	ug/L	MW-3S	16	4.419	5.632	0.438	1.951	6.887	50.000		
Selenium, Total	ug/L	MW-6S	16	12.875	9.115	0.438	8.881	16.869	50.000		
Selenium, Total	ug/L	MW-7S	16	15.756	10.508	0.438	11.152	20.361	50.000	inc	
Thallium, Total	ug/L	MW-10S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-11S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-12S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-1S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-2S	11	0.500	0.000	0.546	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-3S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-6S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-7S	15	1.000	0.000	0.455	1.000	1.000	2.000		
Total Radium	pCi/L	MW-10S	16	1.127	0.332	0.438	0.981	1.272	5.000		
Total Radium	pCi/L	MW-11S	16	0.886	0.188	0.438	0.803	0.968	5.000		
Total Radium	pCi/L	MW-12S	16	0.930	0.363	0.438	0.771	1.089	5.000		
Total Radium	pCi/L	MW-1S	16	0.868	0.294	0.438	0.740	0.997	5.000		
Total Radium	pCi/L	MW-2S	16	1.113	0.640	0.438	0.833	1.394	5.000		
Total Radium	pCi/L	MW-3S	16	0.835	0.094	0.438	0.793	0.876	5.000		
Total Radium	pCi/L	MW-6S	16	1.062	0.318	0.438	0.923	1.202	5.000		
Total Radium	pCi/L	MW-7S	16	1.226	0.632	0.438	0.950	1.503	5.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Antimony, Total	ug/L	MW-111	4	0.500	0.000	1.176	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-31	4	0.500	0.000	1.176	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-61	4	0.500	0.000	1.176	0.500	0.500	6.000	
Arsenic, Total	ug/L	MW-111	4	2.275	1.839	1.176	0.112	4.438	10.000	
Arsenic, Total	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-31	4	0.500	0.000	1.176	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-61	4	0.500	0.000	1.176	0.500	0.500	10.000	
Barium, Total	ug/L	MW-111	4	60.000	9.411	1.176	48.930	71.070	2000.000	dec
Barium, Total	ug/L	MW-11	4	59.975	17.050	1.176	39.920	80.030	2000.000	
Barium, Total	ug/L	MW-21	4	87.275	18.012	1.176	66.087	108.463	2000.000	
Barium, Total	ug/L	MW-31	4	68.350	12.663	1.176	53.454	83.246	2000.000	
Barium, Total	ug/L	MW-61	4	74.000	5.017	1.176	68.099	79.901	2000.000	
Beryllium, Total	ug/L	MW-111	4	0.100	0.000	1.176	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-11	4	0.100	0.000	1.176	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-21	4	0.100	0.000	1.176	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-31	4	0.100	0.000	1.176	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-61	4	0.100	0.000	1.176	0.100	0.100	4.000	
Cadmium, Total	ug/L	MW-111	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-11	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-21	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-31	4	1.000	0.000	1.176	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-61	4	1.000	0.000	1.176	1.000	1.000	5.000	
Chromium, Total	ug/L	MW-111	4	5.000	0.000	1.176	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-11	4	5.000	0.000	1.176	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-21	4	5.000	0.000	1.176	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-31	4	5.000	0.000	1.176	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-61	4	5.000	0.000	1.176	5.000	5.000	100.000	
Cobalt, Total	ug/L	MW-111	4	0.500	0.000	1.176	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-31	4	0.500	0.000	1.176	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-61	4	0.500	0.000	1.176	0.500	0.500	6.000	
Fluoride	mg/L	MW-111	4	0.420	0.033	1.176	0.382	0.458	4.000	
Fluoride	mg/L	MW-11	4	0.303	0.040	1.176	0.255	0.350	4.000	dec
Fluoride	mg/L	MW-21	4	0.283	0.042	1.176	0.233	0.332	4.000	
Fluoride	mg/L	MW-31	4	0.345	0.050	1.176	0.286	0.404	4.000	
Fluoride	mg/L	MW-61	4	0.298	0.015	1.176	0.280	0.315	4.000	

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Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Lead, Total	ug/L	MW-111	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-21	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-31	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-61	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-111	4	104.375	13.446	1.176	88.558	120.192	40.000	dec	**
Lithium, Total	ug/L	MW-11	4	85.625	8.731	1.176	75.355	95.895	40.000		**
Lithium, Total	ug/L	MW-21	4	41.075	10.598	1.176	28.609	53.541	40.000	dec	
Lithium, Total	ug/L	MW-31	4	12.875	5.750	1.176	6.111	19.639	40.000	dec	
Lithium, Total	ug/L	MW-61	4	102.625	3.544	1.176	98.456	106.794	40.000	dec	**
Mercury	ug/L	MW-111	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-11	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-21	4	0.100	0.000	1.176	0.100	0.100	2.000		
Mercury	ug/L	MW-31	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-61	4	1.000	0.000	1.176	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-111	4	126.000	2.708	1.176	122.815	129.185	100.000	dec	**
Molybdenum, Total	ug/L	MW-11	4	88.000	5.803	1.176	81.174	94.826	100.000	dec	
Molybdenum, Total	ug/L	MW-21	4	74.675	11.877	1.176	60.704	88.646	100.000		
Molybdenum, Total	ug/L	MW-31	4	55.625	10.588	1.176	43.170	68.080	100.000		
Molybdenum, Total	ug/L	MW-61	4	172.250	13.598	1.176	156.254	188.246	100.000		**
Selenium, Total	ug/L	MW-111	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-31	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-61	4	0.500	0.000	1.176	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-111	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-31	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-61	4	0.500	0.000	1.176	0.500	0.500	2.000		
Total Radium	pCi/L	MW-111	4	1.307	0.757	1.176	0.417	2.197	5.000		
Total Radium	pCi/L	MW-11	4	1.580	0.305	1.176	1.221	1.939	5.000		
Total Radium	pCi/L	MW-21	4	1.348	0.318	1.176	0.973	1.722	5.000		
Total Radium	pCi/L	MW-31	4	1.313	0.430	1.176	0.807	1.819	5.000		
Total Radium	pCi/L	MW-61	4	1.815	0.183	1.176	1.600	2.030	5.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-11I	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-1I	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-2I	6	0.500	0.000	0.822	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	6.000		
Arsenic, Total	ug/L	MW-11I	8	2.688	1.925	0.670	1.398	3.977	10.000		
Arsenic, Total	ug/L	MW-1I	8	0.500	0.000	0.670	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-2I	6	1.000	1.225	0.822	0.000	2.007	10.000		
Arsenic, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	10.000		
Arsenic, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	10.000		
Barium, Total	ug/L	MW-11I	8	56.075	9.101	0.670	49.979	62.171	2000.000	dec	
Barium, Total	ug/L	MW-1I	8	56.875	11.742	0.670	49.010	64.740	2000.000		
Barium, Total	ug/L	MW-2I	6	81.050	16.967	0.822	67.097	95.003	2000.000		
Barium, Total	ug/L	MW-3I	8	76.462	16.112	0.670	65.670	87.255	2000.000		
Barium, Total	ug/L	MW-6I	8	65.725	10.650	0.670	58.591	72.859	2000.000		
Beryllium, Total	ug/L	MW-11I	8	0.100	0.000	0.670	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-1I	8	0.100	0.000	0.670	0.100	0.100	4.000		*
Beryllium, Total	ug/L	MW-2I	3								
Beryllium, Total	ug/L	MW-3I	8	0.100	0.000	0.670	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-6I	8	0.100	0.000	0.670	0.100	0.100	4.000		
Cadmium, Total	ug/L	MW-11I	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1I	8	1.000	0.000	0.670	1.000	1.000	5.000		*
Cadmium, Total	ug/L	MW-2I	3								
Cadmium, Total	ug/L	MW-3I	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6I	8	1.000	0.000	0.670	1.000	1.000	5.000		
Chromium, Total	ug/L	MW-11I	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1I	8	5.000	0.000	0.670	5.000	5.000	100.000		*
Chromium, Total	ug/L	MW-2I	3								
Chromium, Total	ug/L	MW-3I	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6I	8	5.000	0.000	0.670	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-11I	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-1I	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2I	5	0.500	0.000	0.953	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	6.000		
Fluoride	mg/L	MW-11I	8	0.410	0.034	0.670	0.387	0.433	4.000		
Fluoride	mg/L	MW-1I	8	0.294	0.031	0.670	0.273	0.315	4.000	dec	
Fluoride	mg/L	MW-2I	6	0.282	0.033	0.822	0.254	0.309	4.000		
Fluoride	mg/L	MW-3I	8	0.296	0.077	0.670	0.244	0.348	4.000		
Fluoride	mg/L	MW-6I	8	0.300	0.024	0.670	0.284	0.316	4.000		

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Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Lead, Total	ug/L	MW-111	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-21	3								*
Lead, Total	ug/L	MW-31	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-61	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-111	8	104.713	11.113	0.670	97.269	112.156	40.000	dec	**
Lithium, Total	ug/L	MW-11	8	87.750	6.455	0.670	83.427	92.073	40.000		**
Lithium, Total	ug/L	MW-21	6	44.417	9.983	0.822	36.207	52.627	40.000		
Lithium, Total	ug/L	MW-31	8	14.125	5.698	0.670	10.308	17.942	40.000	dec	
Lithium, Total	ug/L	MW-61	8	107.813	8.097	0.670	102.389	113.236	40.000	dec	**
Mercury	ug/L	MW-111	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-11	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-21	3								*
Mercury	ug/L	MW-31	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-61	8	1.000	0.000	0.670	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-111	8	139.625	15.445	0.670	129.280	149.970	100.000	dec	**
Molybdenum, Total	ug/L	MW-11	8	94.088	8.162	0.670	88.621	99.554	100.000	dec	
Molybdenum, Total	ug/L	MW-21	6	70.183	11.837	0.822	60.449	79.918	100.000		
Molybdenum, Total	ug/L	MW-31	8	59.025	8.377	0.670	53.414	64.636	100.000		
Molybdenum, Total	ug/L	MW-61	8	197.125	28.817	0.670	177.823	216.427	100.000		**
Selenium, Total	ug/L	MW-111	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-11	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-21	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-31	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-61	8	0.500	0.000	0.670	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-111	8	0.500	0.000	0.670	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-11	8	0.500	0.000	0.670	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-21	3								*
Thallium, Total	ug/L	MW-31	8	0.500	0.000	0.670	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-61	8	0.500	0.000	0.670	0.500	0.500	2.000		
Total Radium	pCi/L	MW-111	8	1.445	0.578	0.670	1.058	1.832	5.000		
Total Radium	pCi/L	MW-11	8	1.461	0.379	0.670	1.207	1.715	5.000		
Total Radium	pCi/L	MW-21	6	1.560	0.481	0.822	1.164	1.956	5.000		
Total Radium	pCi/L	MW-31	8	1.186	0.345	0.670	0.955	1.417	5.000		
Total Radium	pCi/L	MW-61	8	1.723	0.435	0.670	1.431	2.014	5.000		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Antimony, Total	ug/L	MW-11I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-1I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-2I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Antimony, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Arsenic, Total	ug/L	MW-11I	8	2.688	1.925	0.670	1.398	3.977	10.000	
Arsenic, Total	ug/L	MW-1I	8	0.500	0.000	0.670	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-2I	8	0.875	1.061	0.670	0.165	1.585	10.000	
Arsenic, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	10.000	
Arsenic, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	10.000	
Barium, Total	ug/L	MW-11I	8	56.075	9.101	0.670	49.979	62.171	2000.000	dec
Barium, Total	ug/L	MW-1I	8	56.875	11.742	0.670	49.010	64.740	2000.000	
Barium, Total	ug/L	MW-2I	8	79.725	14.963	0.670	69.703	89.747	2000.000	
Barium, Total	ug/L	MW-3I	8	76.462	16.112	0.670	65.670	87.255	2000.000	
Barium, Total	ug/L	MW-6I	8	65.725	10.650	0.670	58.591	72.859	2000.000	
Beryllium, Total	ug/L	MW-11I	8	0.100	0.000	0.670	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-1I	8	0.100	0.000	0.670	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-2I	5	0.100	0.000	0.953	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-3I	8	0.100	0.000	0.670	0.100	0.100	4.000	
Beryllium, Total	ug/L	MW-6I	8	0.100	0.000	0.670	0.100	0.100	4.000	
Cadmium, Total	ug/L	MW-11I	8	1.000	0.000	0.670	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-1I	8	1.000	0.000	0.670	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-2I	5	1.000	0.000	0.953	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-3I	8	1.000	0.000	0.670	1.000	1.000	5.000	
Cadmium, Total	ug/L	MW-6I	8	1.000	0.000	0.670	1.000	1.000	5.000	
Chromium, Total	ug/L	MW-11I	8	5.000	0.000	0.670	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-1I	8	5.000	0.000	0.670	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-2I	5	5.000	0.000	0.953	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-3I	8	5.000	0.000	0.670	5.000	5.000	100.000	
Chromium, Total	ug/L	MW-6I	8	5.000	0.000	0.670	5.000	5.000	100.000	
Cobalt, Total	ug/L	MW-11I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-1I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-2I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-3I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Cobalt, Total	ug/L	MW-6I	8	0.500	0.000	0.670	0.500	0.500	6.000	
Fluoride	mg/L	MW-11I	8	0.410	0.034	0.670	0.387	0.433	4.000	dec
Fluoride	mg/L	MW-1I	8	0.294	0.031	0.670	0.273	0.315	4.000	
Fluoride	mg/L	MW-2I	8	0.270	0.046	0.670	0.239	0.301	4.000	
Fluoride	mg/L	MW-3I	8	0.296	0.077	0.670	0.244	0.348	4.000	
Fluoride	mg/L	MW-6I	8	0.300	0.024	0.670	0.284	0.316	4.000	

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Lead, Total	ug/L	MW-111	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-11	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-21	5	5.000	0.000	0.953	5.000	5.000	15.000		
Lead, Total	ug/L	MW-31	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-61	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-111	8	104.713	11.113	0.670	97.269	112.156	40.000	dec	**
Lithium, Total	ug/L	MW-11	8	87.750	6.455	0.670	83.427	92.073	40.000		**
Lithium, Total	ug/L	MW-21	8	48.237	11.044	0.670	40.840	55.635	40.000	dec	**
Lithium, Total	ug/L	MW-31	8	14.125	5.698	0.670	10.308	17.942	40.000	dec	
Lithium, Total	ug/L	MW-61	8	107.813	8.097	0.670	102.389	113.236	40.000	dec	**
Mercury	ug/L	MW-111	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-11	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-21	5	0.100	0.000	0.953	0.100	0.100	2.000		
Mercury	ug/L	MW-31	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-61	8	1.000	0.000	0.670	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-111	8	139.625	15.445	0.670	129.280	149.970	100.000	dec	**
Molybdenum, Total	ug/L	MW-11	8	94.088	8.162	0.670	88.621	99.554	100.000	dec	
Molybdenum, Total	ug/L	MW-21	8	68.625	10.412	0.670	61.651	75.599	100.000		
Molybdenum, Total	ug/L	MW-31	8	59.025	8.377	0.670	53.414	64.636	100.000		
Molybdenum, Total	ug/L	MW-61	8	197.125	28.817	0.670	177.823	216.427	100.000		**
Selenium, Total	ug/L	MW-111	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-11	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-21	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-31	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-61	8	0.500	0.000	0.670	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-111	8	0.500	0.000	0.670	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-11	8	0.500	0.000	0.670	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-21	5	0.500	0.000	0.953	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-31	8	0.500	0.000	0.670	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-61	8	0.500	0.000	0.670	0.500	0.500	2.000		
Total Radium	pCi/L	MW-111	8	1.445	0.578	0.670	1.058	1.832	5.000		
Total Radium	pCi/L	MW-11	8	1.461	0.379	0.670	1.207	1.715	5.000		
Total Radium	pCi/L	MW-21	8	1.451	0.463	0.670	1.141	1.762	5.000		
Total Radium	pCi/L	MW-31	8	1.186	0.345	0.670	0.955	1.417	5.000		
Total Radium	pCi/L	MW-61	8	1.723	0.435	0.670	1.431	2.014	5.000		

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 LCL = Lower Confidence Limit
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Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-11D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-6D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Arsenic, Total	ug/L	MW-11D	4	4.925	0.411	1.176	4.441	5.409	10.000		
Arsenic, Total	ug/L	MW-1D	4	2.200	0.476	1.176	1.640	2.760	10.000		
Arsenic, Total	ug/L	MW-2D	4	4.300	0.424	1.176	3.801	4.799	10.000		
Arsenic, Total	ug/L	MW-6D	4	0.800	0.600	1.176	0.094	1.506	10.000		
Barium, Total	ug/L	MW-11D	4	61.250	2.876	1.176	57.867	64.633	2000.000	dec	
Barium, Total	ug/L	MW-1D	4	59.950	2.310	1.176	57.233	62.667	2000.000		
Barium, Total	ug/L	MW-2D	4	70.925	7.349	1.176	62.280	79.570	2000.000		
Barium, Total	ug/L	MW-6D	4	61.650	2.588	1.176	58.606	64.694	2000.000		
Beryllium, Total	ug/L	MW-11D	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-1D	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-2D	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-6D	4	0.100	0.000	1.176	0.100	0.100	4.000		
Cadmium, Total	ug/L	MW-11D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-2D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Chromium, Total	ug/L	MW-11D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-11D	4	0.725	0.450	1.176	0.196	1.254	6.000		
Cobalt, Total	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Fluoride	mg/L	MW-11D	4	0.295	0.030	1.176	0.260	0.330	4.000		
Fluoride	mg/L	MW-1D	4	0.365	0.044	1.176	0.313	0.417	4.000		
Fluoride	mg/L	MW-2D	4	0.313	0.025	1.176	0.283	0.342	4.000		
Fluoride	mg/L	MW-6D	4	0.185	0.024	1.176	0.157	0.213	4.000		
Lead, Total	ug/L	MW-11D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-11D	4	81.000	1.878	1.176	78.791	83.209	40.000	dec	**
Lithium, Total	ug/L	MW-1D	4	83.650	3.646	1.176	79.362	87.938	40.000		**
Lithium, Total	ug/L	MW-2D	4	41.575	8.072	1.176	32.080	51.070	40.000	dec	
Lithium, Total	ug/L	MW-6D	4	73.150	5.387	1.176	66.814	79.486	40.000	dec	**

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Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-11D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Mercury	ug/L	MW-1D	4	0.100	0.000	1.176	0.100	0.100	2.000		
Mercury	ug/L	MW-2D	4	0.100	0.000	1.176	0.100	0.100	2.000		
Mercury	ug/L	MW-6D	4	1.000	0.000	1.176	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-11D	4	141.500	15.351	1.176	123.442	159.558	100.000	dec	**
Molybdenum, Total	ug/L	MW-1D	4	96.575	3.634	1.176	92.301	100.849	100.000	dec	
Molybdenum, Total	ug/L	MW-2D	4	47.750	4.165	1.176	42.850	52.650	100.000	dec	
Molybdenum, Total	ug/L	MW-6D	4	205.750	6.449	1.176	198.165	213.335	100.000		**
Selenium, Total	ug/L	MW-11D	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-6D	4	0.500	0.000	1.176	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-11D	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-6D	4	0.500	0.000	1.176	0.500	0.500	2.000		
Total Radium	pCi/L	MW-11D	4	1.269	0.453	1.176	0.736	1.801	5.000		
Total Radium	pCi/L	MW-1D	4	1.419	0.431	1.176	0.912	1.926	5.000		
Total Radium	pCi/L	MW-2D	4	1.173	0.444	1.176	0.650	1.695	5.000		
Total Radium	pCi/L	MW-6D	4	1.102	0.273	1.176	0.781	1.423	5.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-11D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-1D	5	0.500	0.000	0.953	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-2D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-6D	8	0.600	0.283	0.670	0.411	0.789	6.000		
Arsenic, Total	ug/L	MW-11D	8	5.100	0.548	0.670	4.733	5.467	10.000		
Arsenic, Total	ug/L	MW-1D	5	2.500	0.787	0.953	1.749	3.251	10.000		
Arsenic, Total	ug/L	MW-2D	8	3.738	1.360	0.670	2.827	4.648	10.000		
Arsenic, Total	ug/L	MW-6D	8	0.650	0.424	0.670	0.366	0.934	10.000		
Barium, Total	ug/L	MW-11D	8	57.563	4.703	0.670	54.413	60.712	2000.000	dec	
Barium, Total	ug/L	MW-1D	5	60.140	2.045	0.953	58.190	62.090	2000.000		
Barium, Total	ug/L	MW-2D	8	69.438	6.072	0.670	65.371	73.504	2000.000		
Barium, Total	ug/L	MW-6D	8	57.663	5.426	0.670	54.028	61.297	2000.000		
Beryllium, Total	ug/L	MW-11D	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-1D	3								*
Beryllium, Total	ug/L	MW-2D	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-6D	8	2.000	0.000	0.670	2.000	2.000	4.000		
Cadmium, Total	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1D	3								*
Cadmium, Total	ug/L	MW-2D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	5.000		
Chromium, Total	ug/L	MW-11D	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1D	3								*
Chromium, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6D	8	5.000	0.000	0.670	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-11D	8	0.613	0.318	0.670	0.399	0.826	6.000		
Cobalt, Total	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2D	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Fluoride	mg/L	MW-11D	8	0.276	0.034	0.670	0.253	0.299	4.000		
Fluoride	mg/L	MW-1D	5	0.356	0.043	0.953	0.315	0.397	4.000		
Fluoride	mg/L	MW-2D	8	0.293	0.049	0.670	0.260	0.325	4.000		
Fluoride	mg/L	MW-6D	8	0.181	0.020	0.670	0.168	0.194	4.000		
Lead, Total	ug/L	MW-11D	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1D	3								*
Lead, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6D	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-11D	8	83.075	2.955	0.670	81.096	85.054	40.000	dec	**
Lithium, Total	ug/L	MW-1D	5	83.820	3.180	0.953	80.789	86.851	40.000		**
Lithium, Total	ug/L	MW-2D	8	46.350	7.394	0.670	41.397	51.303	40.000	dec	**
Lithium, Total	ug/L	MW-6D	8	78.225	6.685	0.670	73.747	82.703	40.000	dec	**

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 LCL = Lower Confidence Limit
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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-1D	3								*
Mercury	ug/L	MW-2D	4	0.100	0.000	1.176	0.100	0.100	2.000		
Mercury	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-11D	8	157.625	20.389	0.670	143.968	171.282	100.000	dec	**
Molybdenum, Total	ug/L	MW-1D	5	98.060	4.575	0.953	93.699	102.421	100.000		
Molybdenum, Total	ug/L	MW-2D	8	57.663	11.789	0.670	49.766	65.559	100.000	dec	
Molybdenum, Total	ug/L	MW-6D	8	213.125	13.923	0.670	203.799	222.451	100.000		**
Selenium, Total	ug/L	MW-11D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-1D	5	0.500	0.000	0.953	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-2D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-6D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-1D	3								*
Thallium, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Total Radium	pCi/L	MW-11D	8	1.959	2.105	0.670	0.549	3.369	5.000		
Total Radium	pCi/L	MW-1D	5	1.284	0.480	0.953	0.827	1.741	5.000		
Total Radium	pCi/L	MW-2D	8	1.203	0.379	0.670	0.950	1.457	5.000		
Total Radium	pCi/L	MW-6D	8	1.124	0.218	0.670	0.978	1.270	5.000		

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 LCL = Lower Confidence Limit
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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-11D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-1D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-2D	6	0.500	0.000	0.822	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-6D	8	0.600	0.283	0.670	0.411	0.789	6.000		
Arsenic, Total	ug/L	MW-11D	8	5.100	0.548	0.670	4.733	5.467	10.000		
Arsenic, Total	ug/L	MW-1D	8	2.637	0.880	0.670	2.048	3.227	10.000		
Arsenic, Total	ug/L	MW-2D	6	3.567	1.556	0.822	2.287	4.847	10.000		
Arsenic, Total	ug/L	MW-6D	8	0.650	0.424	0.670	0.366	0.934	10.000		
Barium, Total	ug/L	MW-11D	8	57.563	4.703	0.670	54.413	60.712	2000.000	dec	
Barium, Total	ug/L	MW-1D	8	59.700	1.665	0.670	58.585	60.815	2000.000	dec	
Barium, Total	ug/L	MW-2D	6	69.800	6.107	0.822	64.778	74.822	2000.000		
Barium, Total	ug/L	MW-6D	8	57.663	5.426	0.670	54.028	61.297	2000.000		
Beryllium, Total	ug/L	MW-11D	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-1D	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-2D	3								*
Beryllium, Total	ug/L	MW-6D	8	2.000	0.000	0.670	2.000	2.000	4.000		
Cadmium, Total	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1D	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-2D	3								*
Cadmium, Total	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	5.000		
Chromium, Total	ug/L	MW-11D	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1D	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-2D	3								*
Chromium, Total	ug/L	MW-6D	8	5.000	0.000	0.670	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-11D	8	0.613	0.318	0.670	0.399	0.826	6.000		
Cobalt, Total	ug/L	MW-1D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2D	5	0.500	0.000	0.953	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Fluoride	mg/L	MW-11D	8	0.276	0.034	0.670	0.253	0.299	4.000		
Fluoride	mg/L	MW-1D	8	0.345	0.041	0.670	0.317	0.373	4.000	dec	
Fluoride	mg/L	MW-2D	6	0.302	0.026	0.822	0.280	0.323	4.000		
Fluoride	mg/L	MW-6D	8	0.181	0.020	0.670	0.168	0.194	4.000		
Lead, Total	ug/L	MW-11D	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1D	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-2D	3								*
Lead, Total	ug/L	MW-6D	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-11D	8	83.075	2.955	0.670	81.096	85.054	40.000	dec	**
Lithium, Total	ug/L	MW-1D	8	84.812	4.311	0.670	81.925	87.700	40.000	dec	**
Lithium, Total	ug/L	MW-2D	6	44.517	7.754	0.822	38.140	50.893	40.000		
Lithium, Total	ug/L	MW-6D	8	78.225	6.685	0.670	73.747	82.703	40.000	dec	**

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-1D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-2D	3								*
Mercury	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-11D	8	157.625	20.389	0.670	143.968	171.282	100.000	dec	**
Molybdenum, Total	ug/L	MW-1D	8	102.663	7.510	0.670	97.632	107.693	100.000	dec	
Molybdenum, Total	ug/L	MW-2D	6	52.967	9.028	0.822	45.542	60.391	100.000	dec	
Molybdenum, Total	ug/L	MW-6D	8	213.125	13.923	0.670	203.799	222.451	100.000		**
Selenium, Total	ug/L	MW-11D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-1D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-2D	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-6D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-1D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-2D	3								*
Thallium, Total	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Total Radium	pCi/L	MW-11D	8	1.959	2.105	0.670	0.549	3.369	5.000		
Total Radium	pCi/L	MW-1D	8	1.454	0.657	0.670	1.014	1.894	5.000		
Total Radium	pCi/L	MW-2D	6	1.277	0.418	0.822	0.933	1.620	5.000		
Total Radium	pCi/L	MW-6D	8	1.124	0.218	0.670	0.978	1.270	5.000		

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony, Total	ug/L	MW-11D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-1D	6	0.500	0.000	0.822	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-2D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Antimony, Total	ug/L	MW-6D	8	0.600	0.283	0.670	0.411	0.789	6.000		
Arsenic, Total	ug/L	MW-11D	8	5.100	0.548	0.670	4.733	5.467	10.000		
Arsenic, Total	ug/L	MW-1D	6	2.433	0.723	0.822	1.839	3.028	10.000		
Arsenic, Total	ug/L	MW-2D	8	3.738	1.360	0.670	2.827	4.648	10.000		
Arsenic, Total	ug/L	MW-6D	8	0.650	0.424	0.670	0.366	0.934	10.000		
Barium, Total	ug/L	MW-11D	8	57.563	4.703	0.670	54.413	60.712	2000.000	dec	
Barium, Total	ug/L	MW-1D	6	59.917	1.909	0.822	58.346	61.487	2000.000		
Barium, Total	ug/L	MW-2D	8	69.438	6.072	0.670	65.371	73.504	2000.000		
Barium, Total	ug/L	MW-6D	8	57.663	5.426	0.670	54.028	61.297	2000.000		
Beryllium, Total	ug/L	MW-11D	8	2.000	0.000	0.670	2.000	2.000	4.000		
Beryllium, Total	ug/L	MW-1D	3								*
Beryllium, Total	ug/L	MW-2D	4	0.100	0.000	1.176	0.100	0.100	4.000		
Beryllium, Total	ug/L	MW-6D	8	2.000	0.000	0.670	2.000	2.000	4.000		
Cadmium, Total	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-1D	3								*
Cadmium, Total	ug/L	MW-2D	4	1.000	0.000	1.176	1.000	1.000	5.000		
Cadmium, Total	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	5.000		
Chromium, Total	ug/L	MW-11D	8	5.000	0.000	0.670	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-1D	3								*
Chromium, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	100.000		
Chromium, Total	ug/L	MW-6D	8	5.000	0.000	0.670	5.000	5.000	100.000		
Cobalt, Total	ug/L	MW-11D	8	0.613	0.318	0.670	0.399	0.826	6.000		
Cobalt, Total	ug/L	MW-1D	5	0.500	0.000	0.953	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-2D	7	0.500	0.000	0.734	0.500	0.500	6.000		
Cobalt, Total	ug/L	MW-6D	8	0.500	0.000	0.670	0.500	0.500	6.000		
Fluoride	mg/L	MW-11D	8	0.276	0.034	0.670	0.253	0.299	4.000		
Fluoride	mg/L	MW-1D	6	0.347	0.045	0.822	0.310	0.384	4.000		
Fluoride	mg/L	MW-2D	8	0.293	0.049	0.670	0.260	0.325	4.000		
Fluoride	mg/L	MW-6D	8	0.181	0.020	0.670	0.168	0.194	4.000		
Lead, Total	ug/L	MW-11D	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lead, Total	ug/L	MW-1D	3								*
Lead, Total	ug/L	MW-2D	4	5.000	0.000	1.176	5.000	5.000	15.000		
Lead, Total	ug/L	MW-6D	8	5.000	0.000	0.670	5.000	5.000	15.000		
Lithium, Total	ug/L	MW-11D	8	83.075	2.955	0.670	81.096	85.054	40.000	dec	**
Lithium, Total	ug/L	MW-1D	6	85.450	4.902	0.822	81.419	89.481	40.000		**
Lithium, Total	ug/L	MW-2D	8	46.350	7.394	0.670	41.397	51.303	40.000	dec	**
Lithium, Total	ug/L	MW-6D	8	78.225	6.685	0.670	73.747	82.703	40.000	dec	**

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Table 1

Confidence Intervals for Comparing the Mean of the Last 8 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Mercury	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Mercury	ug/L	MW-1D	3								*
Mercury	ug/L	MW-2D	4	0.100	0.000	1.176	0.100	0.100	2.000		
Mercury	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Molybdenum, Total	ug/L	MW-11D	8	157.625	20.389	0.670	143.968	171.282	100.000	dec	**
Molybdenum, Total	ug/L	MW-1D	6	100.383	7.009	0.822	94.619	106.148	100.000		
Molybdenum, Total	ug/L	MW-2D	8	57.663	11.789	0.670	49.766	65.559	100.000	dec	
Molybdenum, Total	ug/L	MW-6D	8	213.125	13.923	0.670	203.799	222.451	100.000		**
Selenium, Total	ug/L	MW-11D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-1D	6	0.500	0.000	0.822	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-2D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Selenium, Total	ug/L	MW-6D	8	0.500	0.000	0.670	0.500	0.500	50.000		
Thallium, Total	ug/L	MW-11D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Thallium, Total	ug/L	MW-1D	3								*
Thallium, Total	ug/L	MW-2D	4	0.500	0.000	1.176	0.500	0.500	2.000		
Thallium, Total	ug/L	MW-6D	8	1.000	0.000	0.670	1.000	1.000	2.000		
Total Radium	pCi/L	MW-11D	8	1.959	2.105	0.670	0.549	3.369	5.000		
Total Radium	pCi/L	MW-1D	6	1.191	0.486	0.822	0.791	1.590	5.000		
Total Radium	pCi/L	MW-2D	8	1.203	0.379	0.670	0.950	1.457	5.000		
Total Radium	pCi/L	MW-6D	8	1.124	0.218	0.670	0.978	1.270	5.000		

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