



REPORT

**2023 Annual Groundwater Monitoring and Corrective
Action Report - Secondary 1**
NIPSCO LLC Bailly Generating Station

Submitted to:

Northern Indiana Public Service Company LLC

Bailly Generating Station
Chesterton, Indiana

Submitted by:

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1.0 INTRODUCTION

On behalf of Northern Indiana Public Service Company LLC (NIPSCO), WSP USA Inc. (WSP), prepared this 2023 Annual Groundwater Monitoring and Corrective Action Report (2023 Annual Report) for the Bailly Generating Station (BGS, Bailly) coal combustion residuals (CCR) surface impoundment Secondary 1 (the CCR Unit) located at 246 Bailly Station Road in Chesterton, Porter County, Indiana (Latitude 41° 38' 40" N and Longitude 87° 05' 20" W, see Figure 1). Secondary 1 is an approximately three-acre, incised surface impoundment that is lined with a chlorosulfonated polyethylene "Hypalon" membrane (see Figure 2). WSP prepared the 2023 Annual Report in accordance with 40 Code of Federal Regulations (CFR) Parts 257 and 261, "Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals From Electric Utilities; Final Rule" (CCR Rule), as amended, and corresponding regulations under 329 Indiana Administrative Code (IAC) 10-9-1.

The CCR Unit is currently in Assessment Monitoring pursuant to 40 CFR §257.95. Routine monitoring activities performed during the reporting period include inspection of wells for integrity and security, measurement of groundwater levels prior to sample collection to assess groundwater flow direction, and collection of samples for laboratory analysis.

In conformance with the applicable requirements of 40 CFR §257.90(e)(1) through (5) and corresponding State of Indiana requirements, the 2023 Annual Report:

- Documents the status of the groundwater monitoring and corrective action program
- Provides figures showing the CCR Unit, monitoring well locations, and groundwater flow direction(s)
- Summarizes key CCR Rule groundwater activities completed during calendar year 2023
- Includes CCR Rule groundwater monitoring data obtained in calendar year 2023
- Describes any problems encountered during the monitoring activities
- Discusses actions taken to resolve the problems, if applicable
- Provides key activities for the upcoming year.

2.0 GROUNDWATER MONITORING AND CORRECTIVE ACTION PROGRAM OVERVIEW OF CURRENT STATUS

Starting in 2016 following the installation of a 40 CFR §257.91-compliant groundwater monitoring system (Table 1) and throughout calendar year 2017, WSP collected background groundwater samples and performed Detection Monitoring at the CCR Unit pursuant to the requirements of 40 CFR §257.93-94. Due to the identification of statistically significant increases (SSIs), NIPSCO established an Assessment Monitoring program in April 2018 pursuant to the requirements of 40 CFR §257.95. In 2018, WSP performed the first and second Assessment Monitoring events. Following the first Assessment Monitoring event, including verification sampling, NIPSCO posted a notification in the publicly accessible website of detections of 40 CFR Part 257 Appendix IV parameters downgradient of Secondary 1 above groundwater protection standards (GWPS). Consequently, NIPSCO initiated the assessment of corrective measures (ACM) process in December 2018. WSP performed subsequent monitoring events including:

- Third and fourth Assessment Monitoring events in 2019

- Fifth and sixth Assessment Monitoring events in 2020
- Seventh and eighth Assessment Monitoring events in 2021
- Ninth and tenth Assessment Monitoring events in 2022
- Eleventh and twelfth Assessment Monitoring events in 2023

The eleventh and twelfth Assessment Monitoring events were completed in May/June and November 2023. The groundwater elevations recorded during the May/June and November events are provided in Table 2, and the groundwater elevation contours are presented in Figures 3 and 4, respectively. The sampling dates, number of groundwater samples collected from each background and downgradient well, and the purpose of sampling associated with the eleventh and twelfth Assessment Monitoring events are provided in Table 3. The 2023 analytical results are presented in Table 4. Secondary 1 began and ended the current annual reporting period in Assessment Monitoring pursuant to §257.95. No statistically significant levels (SSLs) of Appendix IV constituents were identified in 2023.

On behalf of NIPSCO, WSP completed the assessment of corrective measures and prepared the ACM Report in May 2019. In addition, NIPSCO/WSP are working with Indiana Department of Environmental Management (IDEM) to develop and refine a closure design for all the BGS CCR Rule regulated impoundments. Concurrent with the closure design activities, WSP is continuing to evaluate the feasibility and design of potential groundwater remedial alternatives in accordance with the provisions of 40 CFR §259.97(a). Reflecting the work with IDEM and evolution of a final closure design, on behalf of NIPSCO, WSP prepared the ACM Addendum #1 Report in June 2022. A remedy has not yet been selected pending additional feedback from IDEM, finalization of the closure design, the collection and evaluation of additional information relative to remedy alternatives, and discussions with and preliminary input from an adjacent property manager; therefore, no remediation activities were performed in 2023. At least 30 days prior to the selection of remedy, NIPSCO will schedule a public meeting to present the proposed remedial approach for public comment.

2.1 Key Actions Completed - 2023

NIPSCO completed the following key actions relative to CCR Rule groundwater monitoring at Secondary 1 during calendar year 2023:

- Preparation of the 2022 Groundwater Monitoring and Corrective Action Annual Report in January 2023 (2022 Annual Report, WSP 2023) (40 CFR §257.90(e))
- Evaluation of the results of the tenth Assessment Monitoring event in March 2023 (40 CFR §257.95)
- Preparation of the eighth semi-annual Selection of Remedy Progress Report in April 2023 (40 CFR §257.97)
- Performance of the eleventh Assessment Monitoring event in May/June 2023 (40 CFR §257.95)
- Preparation of the ninth semi-annual Selection of Remedy Progress Report in October 2023 (40 CFR §257.97)
- Evaluation of the results of the eleventh Assessment Monitoring event in October 2023 (40 CFR §257.95)
- Performance of the twelfth Assessment Monitoring event in November 2023 (40 CFR §257.95)

2.2 Monitoring System Modifications

The groundwater monitoring system did not require any modification in 2023 (see Figure 2). Attached Table 1 provides a summary of the well rationale/purpose and date of installation. An overview of the groundwater monitoring network is provided in the embedded table below.

Background Monitoring Wells	Downgradient Monitoring Wells
GAMW-01, GAMW-01B	GAMW-02, GAMW-03, GAMW-04

2.3 Background Monitoring (2016 to 2017)

Per the requirements of 40 CFR §257.93-94, WSP collected eight independent background groundwater samples from each background and downgradient well between July 2016 and August 2017. WSP used the results of the background monitoring phase to develop appropriate, statistically valid background values for each constituent/monitoring well. WSP submitted the samples to a contract laboratory, in accordance with chain of custody and quality assurance/quality control procedures, for analysis of 40 CFR Part 257 Appendix III and Appendix IV constituents. In addition, WSP personnel measured field water quality parameters including specific conductance, temperature, dissolved oxygen, turbidity, oxidation-reduction potential, and pH. The background data set is included in the 2017 CCR Annual Groundwater Monitoring and Corrective Action Report, dated January 31, 2018 (2017 Annual Report, Golder 2018).

WSP performed a periodic update of background datasets, which includes incorporation of additional background data, to improve statistical power and accuracy by providing a more conservative estimate of the true background populations. The CCR Rule Groundwater Monitoring Program Implementation Manual (GMPIM, Golder 2017) allows for the statistical limits to be updated after four to eight new measurements are available (i.e., every two to four years of semi-annual monitoring). WSP incorporated new data into the background dataset, updating the GWPS, in February 2020 and February 2022.

2.4 Detection Monitoring

WSP performed the first Detection Monitoring event in October 2017, followed by a statistical evaluation and data analysis in January 2018. WSP collected groundwater samples from Secondary 1 background and downgradient monitoring wells for analysis of Appendix III constituents per 40 CFR §257.94 and included the results in the 2017 Annual Report. Following receipt and validation of laboratory results, WSP evaluated the results of the first Detection Monitoring event to compare the concentration of Appendix III constituents relative to facility background concentrations. Using Sanitas™ software, WSP pooled the background data to calculate prediction limits and compared the October 2017 results to the calculated prediction limits to determine SSIs. Due to the identification of SSIs, NIPSCO established an Assessment Monitoring program in April 2018.

2.5 Assessment Monitoring

WSP performed the first Assessment Monitoring event (i.e., Assessment and Verification sampling) in March and April 2018, followed by a statistical evaluation and data analysis in August 2018. In March 2018, WSP collected groundwater samples from each background and downgradient monitoring well for analysis of Appendix IV constituents per 40 CFR §257.95. In April 2018, groundwater samples were collected at the downgradient monitoring well locations and analyzed for Appendix III and detected Appendix IV constituents per 40 CFR §257.95. In September 2018, WSP developed GWPS against which to compare the Assessment Monitoring

results. Following receipt and validation of laboratory results, WSP evaluated the Appendix IV constituent results relative to CCR Unit-specific GWPS (Table 5). At the time of the statistical evaluation the GWPS was the higher value of either the Maximum Contaminant Level (MCL) or the CCR Unit-specific background concentration for each analyte calculated using a tolerance/prediction limit procedure in accordance with 40 CFR §257.95(h)(2). Results from the downgradient monitoring wells were evaluated by comparing the lower confidence limit (LCL) to the CCR Unit-specific GWPS for each Appendix IV analyte at each well. If the LCL exceeds the GWPS, there is statistical evidence of an SSL. WSP identified SSLs for thallium at well GAMW-03 and cadmium at GAMW-04 in September 2018 and initiated the assessment of corrective measures in December 2018.

WSP performed additional Assessment Monitoring events at Secondary 1 by collecting groundwater samples from each background and downgradient monitoring well per 40 CFR §257.95 including:

- Second Assessment Monitoring Event – October 2018: WSP performed the second Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and detected Appendix IV constituents. WSP performed the statistical evaluation of the analytical results of the second Assessment Monitoring event in January 2019. The results confirmed the SSLs for thallium at well GAMW-03 and cadmium at well GAMW-04. The results from the first and second Assessment Monitoring events are included in the 2018 Annual Groundwater Monitoring and Corrective Action Report, dated January 31, 2019 (2018 Annual Report, Golder 2019).
- Third Assessment Monitoring Event – April 2019: WSP performed the third Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and Appendix IV constituents. WSP performed the statistical evaluation of the analytical results of the third Assessment Monitoring event in August 2019. The results confirmed the SSLs for thallium at well GAMW-03 and cadmium at well GAMW-04.
- Fourth Assessment Monitoring Event – October 2019: WSP performed the fourth Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and detected Appendix IV constituents. WSP performed the statistical evaluation of the analytical results of the fourth Assessment Monitoring event in February 2020. The results confirmed the SSLs for thallium at well GAMW-03 and cadmium at well GAMW-04. The results from the third and fourth Assessment Monitoring events are included in the 2019 Annual Groundwater Monitoring and Corrective Action Report, dated January 31, 2020 (2019 Annual Report, Golder 2020).
- Fifth Assessment Monitoring Event – April 2020: WSP performed the fifth Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and Appendix IV constituents. WSP performed the statistical evaluation of the analytical results of the fifth Assessment Monitoring event in August 2020. The results confirmed the SSLs for thallium at well GAMW-03 and cadmium at well GAMW-04.
- Sixth Assessment Monitoring Event – November 2020: WSP performed the sixth Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and detected Appendix IV constituents. WSP performed the statistical evaluation of the analytical results of the sixth Assessment Monitoring event in February 2021. The results confirmed the SSLs for thallium at well GAMW-03 and cadmium at well GAMW-04. The results from the fifth and sixth Assessment Monitoring events are included in the 2020 Groundwater Monitoring and Corrective Action Report, dated January 31, 2021 (Golder 2021).
- Seventh Assessment Monitoring Event – May 2021: WSP performed the seventh Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and Appendix IV constituents. WSP

performed the statistical evaluation of the analytical results of the seventh Assessment Monitoring event in September 2021. The results confirmed the SSLs for thallium at well GAMW-03 and cadmium at well GAMW-04.

- Eighth Assessment Monitoring Event – October 2021: WSP performed the eighth Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and detected Appendix IV constituents. WSP performed the statistical evaluation of the analytical results of the eighth Assessment Monitoring event in February 2022. The results confirmed the SSL for cadmium at well GAMW-03; however, thallium at well GAMW-04 was no longer identified as an SSL. Further evaluation identified a statistically significant decreasing trend for thallium in this well with the upper confidence band below the GWPS. The results of the seventh and eighth Assessment Monitoring events are included in the 2021 Groundwater Monitoring and Corrective Action Report, dated January 31, 2022 (Golder 2022).
- Ninth Assessment Monitoring Event – May-June 2022: WSP performed the ninth Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and Appendix IV constituents. WSP performed the statistical evaluation of the analytical results of the ninth Assessment Monitoring event in October 2022. The results confirmed the SSL for cadmium at well GAMW-03.
- Tenth Assessment Monitoring Event – October-November 2022: WSP performed the tenth Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and Appendix IV constituents. WSP performed the statistical evaluation of the analytical results of the tenth Assessment Monitoring event in March 2023. No SSLs were identified. The results of the ninth and tenth Assessment Monitoring events are included in the 2022 Groundwater Monitoring and Corrective Action Report, dated January 31, 2023 (WSP 2023).
- Eleventh Assessment Monitoring Event – May-June 2023: WSP performed the eleventh Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and Appendix IV constituents. WSP performed the statistical evaluation of the analytical results from the eleventh Assessment Monitoring event in October 2023. No SSLs were identified.
- Twelfth Assessment Monitoring Event – November 2023: WSP performed the twelfth Assessment Monitoring event by collecting groundwater samples for analysis of Appendix III and Appendix IV constituents. WSP will perform the statistical evaluation of the analytical results from the twelfth Assessment Monitoring event in March 2024.

The 2023 analytical laboratory reports are provided in Appendix A and Appendix B for the May/June and November 2023 results, respectively. The data usability assessment report is provided in Appendix C and the results from the statistical evaluations completed in February and October 2023 are attached in Appendix D.

2.6 Corrective Action

NIPSCO is evaluating the feasibility and design of the potential groundwater remedial alternatives presented in the ACM report (Golder 2019) and ACM Addendum #1 (Golder 2022). As discussed in the ACM and Addendum, NIPSCO plans to close these CCR Units by completing source removal and capping in accordance with 40 CFR §257.102. NIPSCO is currently working with IDEM to finalize the Closure Application.

In 2019, WSP identified changes in the groundwater flow direction because of the shutdown of coal-fired generating activities and consequent modification in operation of the impoundments. As a result, WSP updated

the groundwater monitoring network to adequately monitor groundwater quality at Secondary 1 and to allow for the collection and evaluation of additional information essential to the evaluation of the potential Corrective Measures alternatives.

In 2020 and 2021, WSP continued to sample and evaluate data from the updated monitoring well network consistent with 40 CFR §257.95. The additional data were presented in an addendum to the ACM (ACM Addendum #1, Golder 2022). Additionally, the ACM Addendum #1 1) provided further details of WSP's evaluation of the potential corrective measures for the CCR Units, 2) incorporated changes resulting from an enhanced final cover system design, and 3) reevaluated the potential Corrective Measures identified in the ACM based on their compatibility with the final closure design.

NIPSCO attended an in-person meeting with IDEM in mid-April 2022 to discuss aspects of the closure approach. Issues of review/discussion included CCR delineation and removal from certain CCR Units, excavation, and removal of source material and the underlying Hypalon and clay liner systems, the final cover system, and conceptual design, future operation, and maintenance of a post-closure stormwater collection and infiltration gallery. Based upon IDEM feedback, NIPSCO continues to refine the Closure Application. Additional feedback from IDEM may require modifications or refinement to the closure approach, post-closure water management plans, and the Closure Application, which will in turn potentially impact the ACM and selection of a groundwater Corrective Measure(s).

In addition to IDEM, another significant stakeholder in the groundwater ACM process is the National Park Service (NPS), the U.S. governmental organization responsible for the adjacent Indiana Dunes National Park (IDNP). In late November 2022, consistent with the desire to move the ACM process forward while soliciting feedback from key stakeholders, representatives of NIPSCO held a virtual meeting with representatives of NPS to provide a background on the Site, discuss historical and current groundwater conditions, outline the CCR Rule requirements for Corrective Action, and present an overview of alternatives under consideration along with potential off-Site impacts to IDNP. At NPS' request, information related to the ACM and Addendum was provided for technical review, and a follow up meeting was held at the site in March 2023.

In 2023, WSP will continue to collect and evaluate additional information relative to the potential Corrective Measures in the ACM, placing emphases on identifying critical data gaps, understanding and responding to newly gathered information on previous assumptions and/or conclusions, identifying and researching applicability of emerging technologies, and monitoring changing conditions and future plans for the Site and their impacts on the remedy process.

2.7 Statistical Evaluation

Methods used during this statistical evaluation are described in the GMPIM (Golder 2017), were certified by a qualified engineer in October 2017, and are summarized in this section. WSP utilized the Sanitas™ statistical analysis software package to complete this statistical evaluation.

2.7.1 Data Evaluation

After each monitoring event, WSP assessed the analytical data for outliers, anomalies, and trends that may be an indication of a sampling or analytical error. Outliers and anomalies are generally defined as inconsistently large or small values that can occur because of sampling, laboratory, transportation, or transcription errors, or even by chance alone. Significant trends may indicate natural geochemical variability, a source of systematic error, influence of an upgradient/off-site source, or an actual occurrence of CCR Unit influence upon groundwater

quality. Appropriate statistical methods are used to remove outliers from the database and manage trends with detrending routines, prior to the calculation of statistical limits. To assess the data for outliers, anomalies, and trends, WSP assessed the data using time vs. concentration graphs, and statistical routines included in the Sanitas™ statistical analysis software package. No new outliers were identified or removed from the data set since the 2022 Annual Report.

WSP evaluated the background data set for trends using Sanitas™ software (Appendix D). WSP will continue to monitor trends and apply detrending routines, if applicable, before using these data to calculate GWPS. WSP identified the following 40 CFR Part 257 Appendix IV parameter trends in background monitoring wells:

- Arsenic concentrations detected in groundwater samples collected from GAMW-01 show a decreasing trend; all background results are below the MCL, therefore, the GWPS is equal to the MCL. No detrending routines are required.
- Beryllium concentrations detected in groundwater samples collected from GAMW-01 show a decreasing trend; all background results are below the MCL, therefore, the GWPS is equal to the MCL. No detrending routines are required.
- Fluoride concentrations detected in groundwater samples collected from GAMW-01 and GAMW-01B show decreasing trends; all background results are below the MCL, therefore, the GWPS is equal to the MCL. No detrending routines are required.
- Lead concentrations detected in groundwater samples collected from GAMW-01 show an increasing trend; all background results are below the health-based standard, therefore, the GWPS is equal to the health-based standard. No detrending routines are required.
- Combined radium concentrations detected in groundwater samples collected from GAMW-01 show an increasing trend; all background results are below the MCL, therefore, the GWPS is equal to the MCL. No detrending routines are required.

2.7.2 Development of Groundwater Protection Standards

Pursuant to CFR §257.95(h), GWPS were developed for each of the Appendix IV analytes. The GWPS is set equal to the MCL or health-based standard or a limit based on background data, whichever is greater, as described in 40 CFR §257.95(h)(2). The CCR Rule and *Unified Guidance* provide two acceptable approaches for establishing a background-based GWPS (unless all values are non-detect, in which the background-based GWPS is set equal to the laboratory reporting limit (RL)); tolerance interval approach or prediction interval approach.

If the background dataset is normally or transformed normally distributed, the GMPIM states that the tolerance interval approach is used. The background-based GWPS will be based on a 95 percent coverage/95 percent confidence tolerance interval. If the background data are non-normal (even after transformation) than a non-parametric prediction interval approach is used.

As described in Section 2.3, WSP performed a periodic update of background datasets, which includes incorporation of additional background data, to improve statistical power and accuracy by providing a more conservative estimate of the true background populations. The GMPIM allows for the statistical limits to be updated after four to eight new measurements are available (i.e., every two to four years of semi-annual monitoring). WSP incorporated new data into the background dataset, updating the groundwater protection standards (GWPS), in February 2020 and February 2022. A summary of the GWPS is provided in Table 5.

2.7.3 Results of Appendix IV Downgradient Statistical Comparisons

An interwell statistical evaluation was used to identify SSLs. An interwell evaluation compares the most recent values from downgradient compliance wells to a background dataset composed of upgradient well data. Because the CCR Unit is in Assessment Monitoring, no statistical evaluations were conducted on Appendix III (Detection Monitoring) constituents.

For Assessment Monitoring the Unified Guidance recommends the confidence interval method to evaluate for potential exceedances or SSLs. Using confidence intervals, SSLs are identified by comparing the calculated confidence interval against the GWPS. A confidence interval statistically defines the upper and lower bounds of a specified population within a stipulated level of confidence. If the lower confidence limit exceeds the GWPS, there is statistical evidence that an SSL has been triggered.

Based on the comparisons outlined above, the results of the statistical analysis completed in March and October 2023 did not identify SSLs. The calculated confidence intervals are provided in Appendix D.

2.8 Problems Encountered and Follow-Up Corrective Actions

No problems were encountered in 2023.

3.0 KEY ACTIVITIES PROJECTED FOR 2024

During calendar year 2024, NIPSCO anticipates conducting the following key CCR Rule groundwater monitoring activities for Secondary 1:

- Prepare and submit the appropriate notifications according to the CCR Rule
- Continue semi-annual Assessment Monitoring groundwater sampling per CCR Rule requirements
- Continue to evaluate potential remedial alternatives, assess the impact(s) of IDEM feedback on impoundment closure design and associated groundwater remedy options, and prepare semi-annual reports describing the progress in selecting and designing the remedy
- Inspect and maintain the monitoring system including wells, pumps, and equipment.

4.0 REFERENCES

Golder Associates, "2017 Annual Groundwater Monitoring and Corrective Action Report- Secondary 1 NIPSCO Bailly Generating Station", January 31, 2018.

Golder Associates, "2018 Annual Groundwater Monitoring and Corrective Action Report- Secondary 1 NIPSCO Bailly Generating Station", January 31, 2019.

Golder Associates, "2019 Annual Groundwater Monitoring and Corrective Action Report- Secondary 1 NIPSCO LLC Bailly Generating Station", January 31, 2020.

Golder Associates, "2020 Annual Groundwater Monitoring and Corrective Action Report- Secondary 1 NIPSCO LLC Bailly Generating Station", January 31, 2021.

Golder Associates, "2021 Annual Groundwater Monitoring and Corrective Action Report- Secondary 1 NIPSCO LLC Bailly Generating Station", January 31, 2022.

Golder Associates, "CCR Assessment of Corrective Measures," May 1, 2019.

- Golder Associates, "CCR Groundwater Program Implementation Manual," October 2017.
- Golder Associates, "NIPSCO Bailly Generating Station, CCR Units Primary 1, Primary 2, and Secondary 1 Corrective Measures Selection of Remedy, Semi-Annual Progress Report #19-01" October 28, 2019.
- Golder Associates, "NIPSCO Bailly Generating Station, CCR Units Primary 1, Primary 2, and Secondary 1 Corrective Measures Selection of Remedy, Semi-Annual Progress Report #20-01" April 24, 2020.
- Golder Associates, "NIPSCO Bailly Generating Station, CCR Units Primary 1, Primary 2, and Secondary 1 Corrective Measures Selection of Remedy, Semi-Annual Progress Report #20-02" October 21, 2020.
- Golder Associates, "NIPSCO Bailly Generating Station, CCR Units Primary 1, Primary 2, and Secondary 1 Corrective Measures Selection of Remedy, Semi-Annual Progress Report #21-01" April 20, 2021.
- Golder Associates, "NIPSCO Bailly Generating Station, CCR Units Primary 1, Primary 2, and Secondary 1 Corrective Measures Selection of Remedy, Semi-Annual Progress Report #21-02" October 20, 2021.
- Golder Associates, "NIPSCO Bailly Generating Station, CCR Units Primary 1, Primary 2, and Secondary 1 Corrective Measures Selection of Remedy, Semi-Annual Progress Report #22-01" April 20, 2022.
- Golder Associates, "NIPSCO Bailly Generating Station, CCR Units Primary 1, Primary 2, and Secondary 1 Corrective Measures Selection of Remedy, Semi-Annual Progress Report #22-02" October 20, 2022.
- Golder Associates, "Groundwater Flow Model Technical Memorandum Bailly Generating Station" October 2021.
- Golder Associates, "Monitored Natural Attenuation Evaluation Bailly Generating Station" October 2021.
- WSP USA, "2022 Annual Groundwater Monitoring and Corrective Action Report- Secondary 1 NIPSCO LLC Bailly Generating Station", January 31, 2023.
- WSP USA, "NIPSCO Bailly Generating Station, CCR Units Primary 1, Primary 2, and Secondary 1 Corrective Measures Selection of Remedy, Semi-Annual Progress Report #23-01" April 19, 2023.
- WSP USA, "NIPSCO Bailly Generating Station, CCR Units Primary 1, Primary 2, and Secondary 1 Corrective Measures Selection of Remedy, Semi-Annual Progress Report #23-02" October 20, 2023.

TABLES

**Table 1: Monitoring Well Network
CCR Unit Bailly Secondary 1
NIPSCO LLC Bailly Generating Station
Chesterton, Indiana**

CCR Unit	Well Purpose	Monitoring Well ID	Installation Date (If Applicable)	Decommission Date (If Applicable)	Basis For Action
Secondary 1	Background Monitoring Well	GAMW-01	6/6/2016	-	Installed for Groundwater Quality Monitoring ⁽¹⁾
		GAMW-01B	9/14/2019	-	Installed to provide additional groundwater quality data
		GAMW-08	6/16/2016	-	Installed for Groundwater Quality Monitoring, removed from the monitoring well network in September 2019 ^(1,2) .
		GAMW-11	6/7/2016	-	
	Downgradient Monitoring Well	GAMW-02	6/6/2016	-	Installed for Groundwater Quality Monitoring ⁽¹⁾
		GAMW-03	6/6/2016	-	
		GAMW-04	6/6/2016	-	

Notes:

- 1) Per 40 CFR §257.93, WSP collected eight rounds of background data prior to October 17, 2017.
- 2) Prior to September 2019, monitoring wells GAMW-08 and GAMW-11 were considered part of the background monitoring well network. Due to changes in groundwater flow direction, these monitoring wells have been removed from the monitoring well network for Secondary 1.

Prepared by: GRD
 Checked by: DFSC
 Reviewed by: MAH

**Table 2: 2023 Groundwater Elevations
CCR Unit Bailly Boiler Slag Pond
NIPSCO LLC Bailly Generating Station
Chesterton, Indiana**

Monitoring Well Location	Northing (ft)	Easting (ft)	Top of Casing Elevation (ft-NAVD88)	Screen Interval		Well Diameter (in)	Stickup (ft)	5/15/2023		11/6/2023	
				Top (ft-bgs)	Bottom (ft-bgs)			Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)
GAMW-01	2327313.72	2945093.54	624.53	13	23	2	3.27	18.82	605.71	19.58	604.95
GAMW-01B	2327312.63	2945073.32	623.76	27	32	2	2.68	18.14	605.62	18.85	604.91
GAMW-02	2327610.23	2945017.00	624.20	13	23	2	2.93	18.29	605.91	19.13	605.07
GAMW-03	2327603.70	2944754.25	624.35	13	23	2	3.40	18.85	605.50	19.58	604.77
GAMW-04	2327464.58	2944724.47	624.12	13	23	2	3.24	18.80	605.32	19.50	604.62
GAMW-05	2327551.49	2944261.74	627.70	17	27	2	3.06	22.75	604.95	23.42	604.28
GAMW-06	2327775.28	2944256.52	626.68	17	27	2	2.52	21.72	604.96	22.60	604.08
GAMW-07	2327813.59	2943926.62	629.02	19	29	2	3.05	22.84	606.18	23.42	605.60
GAMW-08	2327355.09	2943752.82	624.35	15	25	2	3.18	20.08	604.27	20.70	603.65
GAMW-08B	2327355.26	2943762.74	623.73	30	40	2	3.18	19.50	604.23	20.10	603.63
GAMW-10	2327809.74	2943347.68	631.94	21	31	2	2.60	27.90	604.04	29.06	602.88
GAMW-11	2327370.90	2942800.52	625.04	14	24	2	3.05	21.14	603.90	21.80	603.24
GAMW-11B	2327371.10	2942805.15	624.89	70	75	2	2.82	22.95	601.94	22.90	601.99
GAMW-11C	2327371.11	2942790.30	625.16	29	34	2	3.33	21.25	603.91	21.95	603.21
GAMW-12R	2327594.53	2942593.36	625.91	17	27	2	2.97	22.00	604.15	22.76	603.39
GAMW-13	2327843.76	2942379.22	625.34	13	23	2	3.20	19.70	605.64	20.32	605.02
GAMW-14	2327774.97	2942206.64	624.32	13	23	2	2.70	18.68	605.64	DRY	
GAMW-16	2327808.88	2943739.26	629.92	20	30	2	2.72	25.68	604.24	DRY	
GAMW-17	2327377.94	2943124.86	623.96	14.5	15.5	2	3.29	20.00	603.96	20.72	603.24
GAMW-17B	2327377.87	2943120.35	624.12	28.5	33.5	2	3.38	20.15	603.97	20.90	603.22
GAMW-18	2327353.43	2943408.30	626.87	20	30	2	3.19	22.83	604.04	23.50	603.37
GAMW-19	2328098.91	2943003.93	622.18	9	19	2	2.75	21.33	600.85	19.70	602.48
GAMW-20	2328145.24	2943455.85	615.64	8	18	2	3.25	15.20	600.44	13.25	602.39
GAMW-21	2328125.66	2943873.09	611.25	4	14	2	3.36	13.34	597.91	11.10	600.15
GAMW-22	2327275.55	2943764.42	621.78	13	23	2	-0.32	17.62	604.16	18.13	603.65
GAMW-22B	2327275.61	2943761.23	621.82	28	38	2	-0.29	17.65	604.17	18.18	603.64
GAMW-23	2327272.68	2943122.47	620.45	13	23	2	-0.30	16.80	603.65	17.20	603.25
GAMW-23B	2327272.77	2943119.35	620.49	29	39	2	-0.27	17.56	602.93	17.25	603.24
MW-102	2327235.25	2945770.59	619.23	5	15	2	2.77	12.10	607.13	NA ¹	
MW-103	2327230.11	2944860.36	622.97	9	19	2	3.02	17.72	605.25	NA ¹	
MW-104	2327225.88	2943801.42	622.13	9	19	2	3.08	17.82	604.31	NA ¹	
MW-105	2327401.59	2942433.78	622.05	8	18	2	2.88	16.05	606.00	16.46	605.59
MW-106	2327406.16	2941537.18	621.89	10	20	2	2.78	18.15	603.74	18.68	603.21
MW-112	2327800.22	2942981.22	628.07	17	27	2	3.27	24.06	604.01	25.20	602.87
MW-113	2327808.80	2943727.69	630.07	14	24	2	2.84	25.80	604.27	26.85	603.22
MW-114	2327814.66	2944515.30	625.74	14	24	2	3.12	20.46	605.28	21.34	604.40
MW-115	2327801.82	2944994.74	623.41	11	21	2	2.68	17.45	605.96	18.42	604.99
MW-116	2327769.27	2945668.03	624.18	10	20	2	2.84	17.25	606.93	18.26	605.92

Notes:

Locations surveyed in US State Plane Indiana West Zone North American Datum of 1983 and North American Vertical Datum of 1988 (ft)

ft-bgs = feet below ground surface

ft-btoc = feet below top of casing

ft-NAVD88 = feet relative to NAVD88

NA = not available

in = inch

1) The well was inaccessible during the gauging event.

Prepared by: GRD
Checked by: DFSC
Reviewed by: MAH



Table 3: Summary of Sampling Events
CCR Unit Bailly Secondary 1
NIPSCO LLC Bailly Generating Station
Chesterton, Indiana

Well Purpose	Monitoring Well ID	Sample Event #20	Sample Event #21	Total Number of Samples
Purpose of Sample		Annual Assessment Monitoring	Semi-Annual Assessment Monitoring	
Sample Parameters		Appendix III and Appendix IV	Appendix III and Detected Appendix IV	
Background Monitoring Well	GAMW-01	5/17/2023	11/14/2023	2
	GAMW-01B	5/17/2023	11/14/2023	2
Downgradient Monitoring Well	GAMW-02	5/17/2023	11/15/2023	2
	GAMW-03	5/17/2023	11/15/2023	2
	GAMW-04	5/17/2023	11/15/2023	2
Total Number of Samples		5	5	10

Notes:

Sample counts do not include QA/QC samples.

(1) Sample events #1-19 were completed prior to 2023. The purpose, sample parameters, and sample dates are included in the 2017, 2018, 2019, 2020, 2021, and 2022 Annual Reports.

(2) Sample events #20 and #21 correspond to the ninth and tenth Assessment Monitoring events, respectively.

Prepared by: GRD
 Checked by: CCC
 Reviewed by: MAH

Table 4: 2023 Analytical Data
CCR Unit Bailly Secondary 1
NIPSCO LLC Bailly Generating Station
Chesterton, Indiana

Sample Location		GAMW-01		GAMW-01B		GAMW-02		GAMW-03		GAMW-04	
Sample Date		2023-05-17	2023-11-14	2023-05-17	2023-11-14	2023-05-17	2023-11-15	2023-05-17	2023-11-15	2023-05-17	2023-11-15
Sample Type		N	N	N	N	N	N	N	N	N	N
Chemical	Unit										
CCR Appendix III											
Boron	mg/L	0.12	0.12	0.35	0.28	0.18	0.19	0.19	0.22	0.36	0.43
Calcium	mg/L	71.6	70.4	94.8	112	82.7	90	87.3	91.1	102	109
Chloride	mg/L	3.3	3.2	12.7	5.5	1.5	1.6	1.9	4.6	2.6	3
Fluoride	mg/L	0.17	0.11	1.7	1.6	2.8	2.4	1.9	2	0.18	0.15
pH	SU	6.65	6.52	7.18	6.91	7.33	7.31	7.1	7.25	6.18	6.56
Sulfate	mg/L	47.2	45.9	53.3	86.6	63	89.8	67.3	80.2	219	234
Total Dissolved Solids	mg/L	302	286	353	402	321	305	316	331	443	484
CCR Appendix IV											
Antimony	mg/L	0.00072 J	0.00078 J	0.0007 J	0.00063 J	0.00049 J	0.00048 J	0.00041 J	0.0004 J	0.001 U	8.4E-05 J
Arsenic	mg/L	0.00052 J	0.00048 J	0.00098 J	0.00091 J	0.00085 J	0.0007 J	0.00028 J	0.00045 J	0.0037	0.0035
Barium	mg/L	0.029	0.031	0.023	0.025	0.021	0.02	0.013	0.014	0.022	0.029
Beryllium	mg/L	5.8E-05 J	3.9E-05 J	3.2E-05 J	0.0002 U	2.7E-05 J	2.9E-05 J	3.5E-05 J	3.3E-05 J	6E-05 J	7.6E-05 J
Cadmium	mg/L	0.00064	0.00052	0.00062	0.00071	0.0015	0.0014	0.00078	0.00088	0.00029	0.00033
Chromium	mg/L	0.00076 J	0.00072 J	0.00051 J	0.00046 J	0.0008 J	0.00082 J	0.00035 J	0.0007 J	0.0011 J	0.0012 J
Cobalt	mg/L	0.00027 J	0.00023 J	0.00054 J	0.0006 J	0.00017 J	0.00014 J	0.00017 J	0.00017 J	0.00026 J	0.00026 J
Fluoride	mg/L	0.17	0.11	1.7	1.6	2.8	2.4	1.9	2	0.18	0.15
Lead	mg/L	0.001 U	4.5E-05 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00011 J	0.0001 J
Lithium	mg/L	0.008 U	0.02 U	0.008 U	0.02 U	0.021	0.023	0.008 U	0.008 J	0.008 U	0.02 U
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum	mg/L	0.031	0.033	0.023	0.026	0.018	0.015	0.013	0.017	0.037	0.051
Radium 226 + 228	pci/l	2.07 U	1.44 U	1.98 U	1.78 U	1.59 U	1.64 U	2.03 U	1.89 U	1.93 U	1.73 U
Selenium	mg/L	0.02	0.015	0.015	0.013	0.014	0.014	0.013	0.021	0.00071 J	0.00028 J
Thallium	mg/L	0.0024	0.003	0.003	0.0032	0.0027	0.003	0.003	0.0035	0.001 U	0.001 U
Sample Parameters											
Dissolved Oxygen	mg/L	4.26	2.34	0.26	0	7.03	5.75	6.99	5.66	0.19	0.15
Oxidation-Reduction Potential	millivolts	72.3	201	55.3	120	89.3	174	99.3	153	39.8	-67
pH	SU	6.65	6.52	7.18	6.91	7.33	7.31	7.1	7.25	6.18	6.56
Specific Conductance	mS/cm	0.314	0.343	0.359	0.467	0.304	0.381	0.296	0.36	0.392	0.511
Temperature	deg C	11.2	16.31	12.1	14.93	11.3	16.77	11.8	18.3	11.8	17.01
Turbidity	NTU	1.58	0.1	0.76	0	1.12	0	0.54	0	2.08	1

Notes:

mg/L = milligrams per liter
 mS/cm = milli Siemens per centimeter
 deg C = degrees Celsius
 NTU = Nephelometric Turbidity Units
 SU = Standard Units
 pCi/L = picocuries per liter
 N = normal sample
 "U" = Indicates the result was not detected above the method detection limit (MDL) for the sample; the quantitation limit (RL) is provided.
 "J" = Indicates the result was estimated

Prepared by: GRD
 Checked by: CCC
 Reviewed by: MAH



**Table 5: Groundwater Protection Standards
CCR Unit Bailly Secondary 1
NIPSCO LLC Bailly Generating Station
Chesterton, Indiana**

Analyte	MCL (mg/L)	GWPS (mg/L) ⁽²⁾	GWPS (mg/L) ⁽³⁾	GWPS (mg/L) ⁽⁴⁾
Antimony	0.006	0.006	0.006	0.006
Arsenic	0.01	0.01	0.01	0.01
Barium	2	2	2	2
Beryllium	0.004	0.004	0.004	0.004
Cadmium	0.005	0.005	0.005	0.005
Chromium	0.1	0.1	0.1	0.1
Cobalt ⁽¹⁾	0.006	0.006	0.006	0.006
Fluoride	4	4	4	4
Lead ⁽¹⁾	0.015	0.015	0.015	0.015
Lithium ⁽¹⁾	0.04	0.04	0.04	0.04
Mercury	0.002	0.002	0.002	0.002
Molybdenum ⁽¹⁾	0.1	0.1	0.1	0.1
Radium 226+228	5	5	5	5
Selenium	0.05	0.05	0.05	0.05
Thallium	0.002	0.0039	0.0043	0.0040

Notes:

MCL= Environmental Protection Agency Maximum Contaminant Level

GWPS= Groundwater Protection Standard

mg/L= milligrams per liter

1) As of August 29, 2018, these four constituents have health-based standards that can be used when calculating the GWPS, these health-based standards are not MCLs but are provided in the MCL column.

2) GWPS calculated in September 2018.

3) GWPS calculated in February 2020.

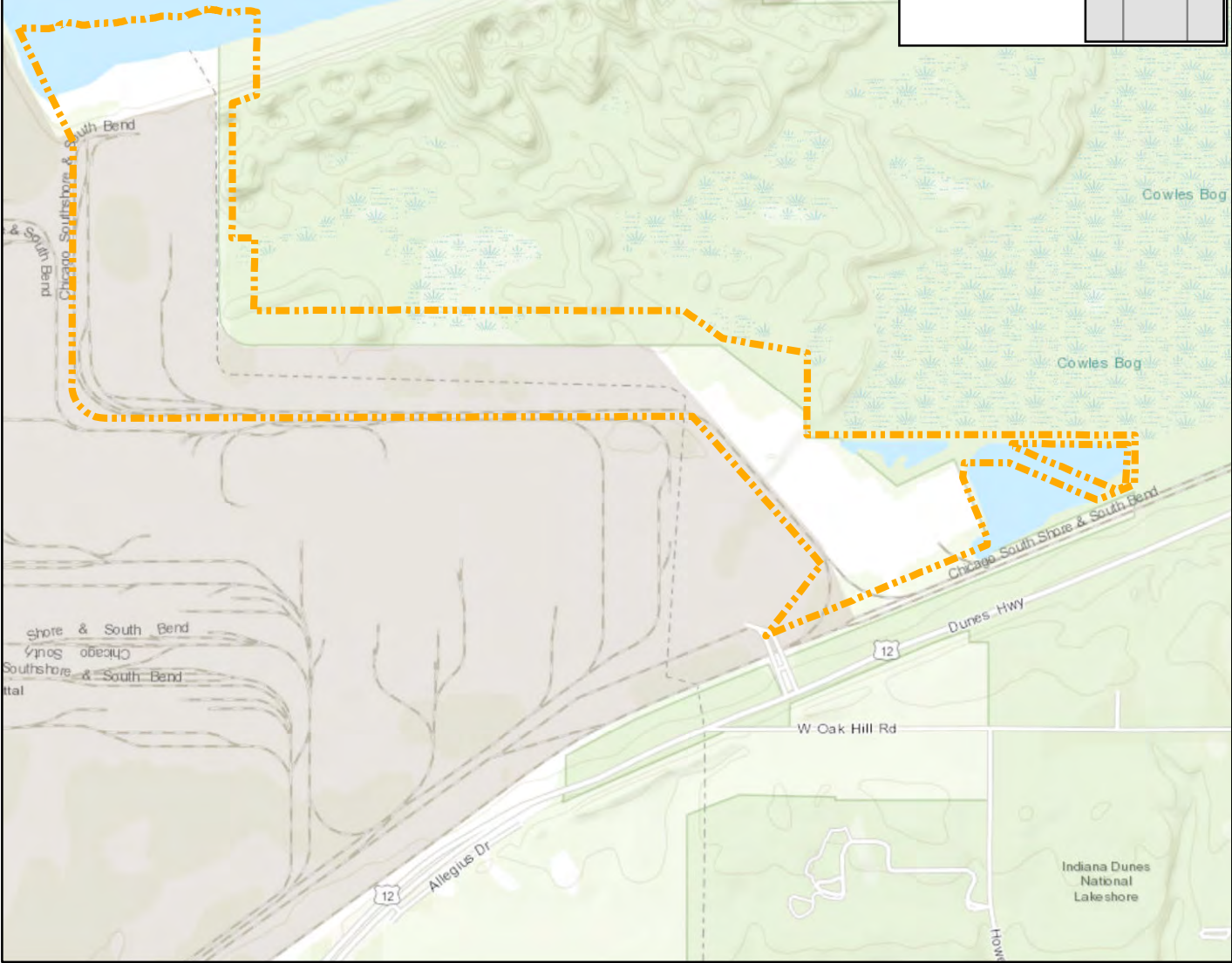
4) GWPS calculated February 2022.

Prepared by: GRD
Checked by: DFSC
Reviewed by: MAH


FIGURES



Lake Michigan



LEGEND

 Approximate Property Line



REFERENCE(S)

SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP, GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

CLIENT

NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

PROJECT

BAILLY GENERATING STATION
CHESTERTON, INDIANA

TITLE

SITE LOCATION MAP

CONSULTANT



YYYY-MM-DD	1/4/2021
DESIGNED	DFSC
PREPARED	SHL
REVIEWED	DFSC
APPROVED	MAH






PROJECT NO.	CONTROL	REV.	FIGURE
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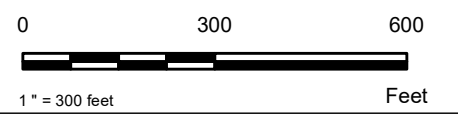
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1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSIA



LEGEND

-  Background Well Location
-  Downgradient Well Location
-  CCR Unit
-  Approximate Property Line
-  Generalized Flow Direction



NOTE(S)

REFERENCE(S)

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CLIENT

NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

PROJECT

BAILLY GENERATING STATION
CHESTERTON, INDIANA

TITLE

WELL LOCATION MAP
SECONDARY 1

CONSULTANT

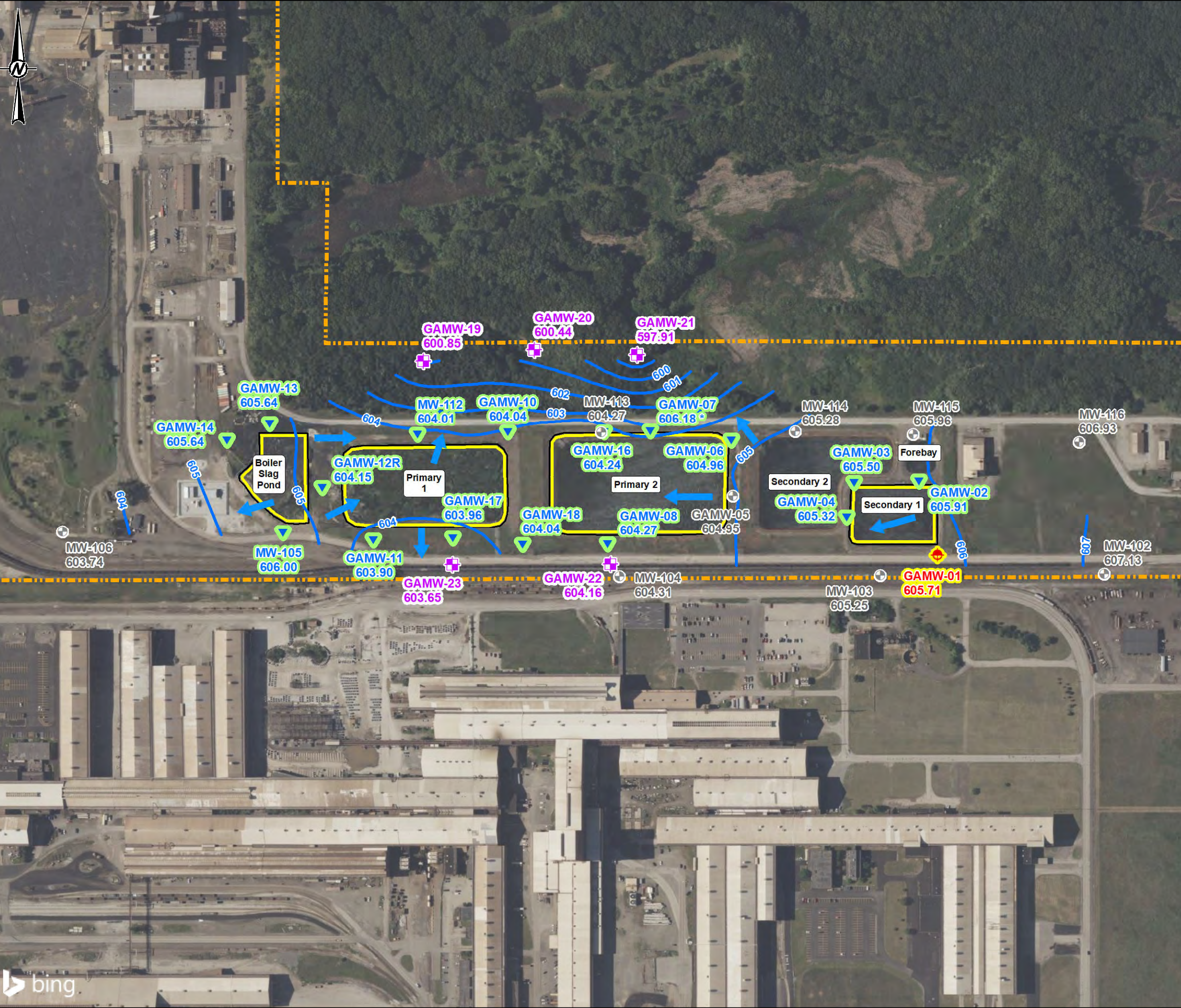
YYYY-MM-DD	1/24/2024
DESIGNED	JSP
PREPARED	EMM
REVIEWED	TDH
APPROVED	MAH



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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Assessment Monitoring Well
 - ◆ Background Monitoring Well
 - ▼ Downgradient Monitoring Well
 - Non-CCR Well Location
 - Generalized Flow Direction
 - May 2023 Groundwater Elevation Contour (1 ft interval)
 - CCR Unit
 - Approximate Property Line

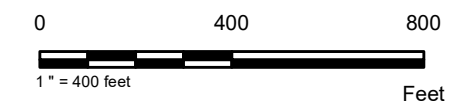


FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION WITHIN THE UPPER PORTION OF THE SURFICIAL AQUIFER, AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY WSP IN MAY 2023.

THE DIRECTION OF HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

WSP INFERRED THE ELEVATION CONTOURS BASED ON THE DATA ILLUSTRATED. THE ACTUAL ELEVATION OF THE POTENTIOMETRIC SURFACE IS LIKELY MORE HETEROGENEOUS THAN SHOWN AND ACTUAL CONDITIONS WILL VARY. OTHER INTERPRETATIONS ARE POSSIBLE. THE DEPTH TO GROUNDWATER IS KNOWN TO VARY WITH TIME.

THIS FIGURE ALSO SHOWS THE APPROXIMATE LOCATIONS OF THE NEW CCR COMPLIANT MONITORING WELL LOCATIONS BASED ON WSP'S KNOWLEDGE OF THE SITE AND EXISTING DATA.

* = NOT USED TO GENERATE CONTOURS

REFERENCE(S)
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CLIENT
 NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

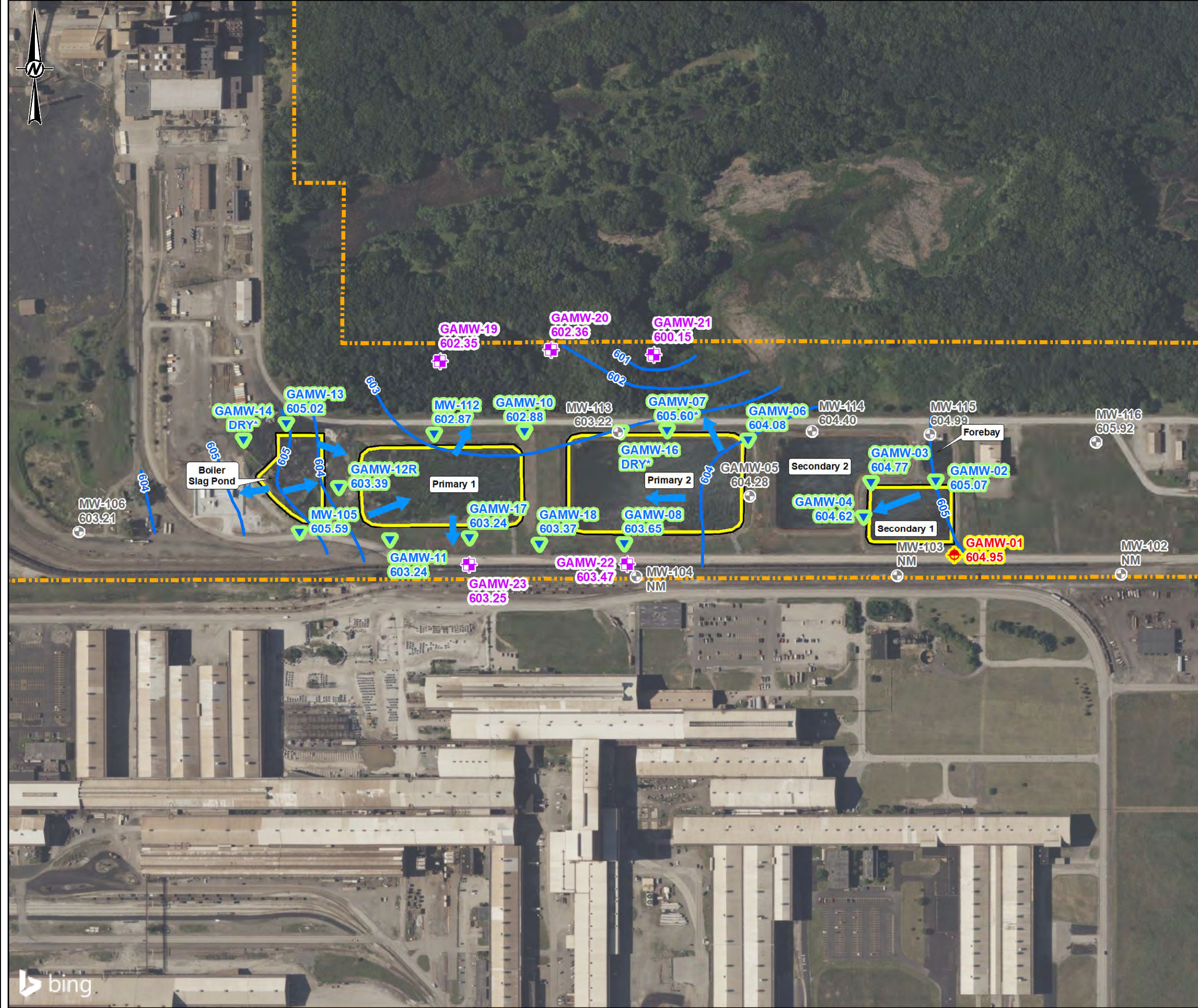
PROJECT
 BAILLY GENERATING STATION
 CHESTERTON, INDIANA

TITLE
MAY 2023 GROUNDWATER ELEVATION CONTOURS

CONSULTANT	WSP	YYYY-MM-DD	1/25/2024
DESIGNED		TDH	
PREPARED		EMM	
REVIEWED		DFSC	
APPROVED		MAH	

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Assessment Monitoring Well
 - ◆ Background Monitoring Well
 - ▼ Downgradient Monitoring Well
 - Non-CCR Well Location
 - November 2023 Groundwater Elevation Contour (1 ft Interval)
 - Generalized Flow Direction
 - CCR Unit
 - Approximate Property Line

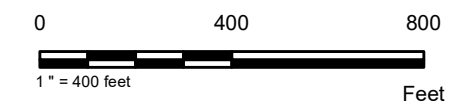


FIGURE NARRATIVE
 THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION WITHIN THE UPPER PORTION OF THE SURFICIAL AQUIFER, AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY WSP IN NOVEMBER 06, 2023.

THE DIRECTION OF HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS.

WSP INFERRED THE ELEVATION CONTOURS BASED ON THE DATA ILLUSTRATED. THE ACTUAL ELEVATION OF THE POTENTIOMETRIC SURFACE IS LIKELY MORE HETEROGENEOUS THAN SHOWN AND ACTUAL CONDITIONS WILL VARY. OTHER INTERPRETATIONS ARE POSSIBLE. THE DEPTH TO GROUNDWATER IS KNOWN TO VARY WITH TIME.

THIS FIGURE ALSO SHOWS THE APPROXIMATE LOCATIONS OF THE NEW CCR COMPLIANT MONITORING WELL LOCATIONS BASED ON WSP'S KNOWLEDGE OF THE SITE AND EXISTING DATA.

* = NOT USED TO GENERATE CONTOURS
 NM = INDICATES WELL NOT MEASURABLE

REFERENCE(S)
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CLIENT
 NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

PROJECT
 BAILLY GENERATING STATION
 CHESTERTON, INDIANA

TITLE
 NOVEMBER 2023 GROUNDWATER ELEVATION CONTOURS

CONSULTANT	WSP	YYYY-MM-DD	1/25/2024
DESIGNED		TDH	
PREPARED		EMM	
REVIEWED		DFSC	
APPROVED		MAH	

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 IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



APPENDIX A

**May/June 2023 Analytical
Laboratory Reports**

June 19, 2023

Mr. Tom Haskins
WSP Golder
10 Al Paul Lane
Suite 103
Merrimack, NH 03054

RE: Project: Bailly Assessment
Pace Project No.: 50345179

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between May 18, 2023 and June 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

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Gabe Dixon, WSP
Ms. Sarah Gilles, WSP Golder
Ms. Danielle Sylvia, WSP Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Bailly Assessment

Pace Project No.: 50345179

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

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: Bailly Assessment
Pace Project No.: 50345179

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50345179001	GAMW-01-051723	Water	05/17/23 09:00	05/18/23 09:25
50345179002	GAMW-01B-051723	Water	05/17/23 10:30	05/18/23 09:25
50345179003	GAMW-02-051723	Water	05/17/23 11:35	05/18/23 09:25
50345179004	GAMW-03-051723	Water	05/17/23 13:05	05/18/23 09:25
50345179005	GAMW-04-051723	Water	05/17/23 14:35	05/18/23 09:25
50345352001	GAMW-06-051823	Water	05/18/23 10:50	05/19/23 09:35
50345352002	GAMW-07-051823	Water	05/18/23 12:50	05/19/23 09:35
50345352003	GAMW-08-051823	Water	05/18/23 14:20	05/19/23 09:35
50345352004	FB-01-051823	Water	05/18/23 15:00	05/19/23 09:35
50345453001	GAMW-08B-051923	Water	05/19/23 10:20	05/20/23 09:05
50345453002	GAMW-10-051923	Water	05/19/23 13:20	05/20/23 09:05
50345623001	GAMW-11-052223	Water	05/22/23 08:55	05/23/23 09:20
50345623002	GAMW-11B-052223	Water	05/22/23 11:10	05/23/23 09:20
50345623003	GAMW-11C-052223	Water	05/22/23 12:35	05/23/23 09:20
50345623004	FD-01-052223	Water	05/22/23 12:00	05/23/23 09:20
50345662001	GAMW-12R-052323	Water	05/23/23 09:20	05/24/23 09:35
50345662002	GAMW-13-052323	Water	05/23/23 10:50	05/24/23 09:35
50345662003	GAMW-14-052323	Water	05/23/23 12:15	05/24/23 09:35
50345662004	GAMW-16-052323	Water	05/23/23 13:35	05/24/23 09:35
50345662005	FD-02	Water	05/23/23 12:00	05/24/23 09:35
50345792001	MW-105-052423	Water	05/24/23 09:40	05/25/23 09:30
50345792002	MW-112-052423	Water	05/24/23 11:15	05/25/23 09:30
50345792003	GAMW-17-052423	Water	05/24/23 12:50	05/25/23 09:30
50345792004	GAMW-17B-052423	Water	05/24/23 14:30	05/25/23 09:30
50345792005	FB-02-052423	Water	05/24/23 14:45	05/25/23 09:30
50345924001	GAMW-18-052523	Water	05/25/23 11:35	05/26/23 09:15
50346175001	GAMW-19-053123	Water	05/31/23 12:35	06/01/23 09:05
50346175002	GAMW-20-053123	Water	05/31/23 14:40	06/01/23 09:05
50346175003	FD-05-053123	Water	05/31/23 12:00	06/01/23 09:05
50346299001	GAMW-21-060123	Water	06/01/23 11:50	06/02/23 09:00
50346299002	GAMW-22-060123	Water	06/01/23 14:05	06/02/23 09:00
50346299003	GAMW-22B-060123	Water	06/01/23 15:20	06/02/23 09:00
50346392001	GAMW-23-060223	Water	06/02/23 10:25	06/03/23 08:55
50346392002	GAMW-23B-060223	Water	06/02/23 11:40	06/03/23 08:55
50346392003	FB-05-060223	Water	06/02/23 11:55	06/03/23 08:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50345179

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50345179001	GAMW-01-051723	EPA 9056	RID	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50345179002	GAMW-01B-051723	EPA 9056	RID	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50345179003	GAMW-02-051723	EPA 9056	RID	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50345179004	GAMW-03-051723	EPA 9056	RID	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50345179005	GAMW-04-051723	EPA 9056	RID	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50345352001	GAMW-06-051823	EPA 9056	RID	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50345352002	GAMW-07-051823	EPA 9056	RID	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50345179

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50345352003	GAMW-08-051823	EPA 6010	JPK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
50345352004	FB-01-051823	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	MGM	11	PASI-I
50345453001	GAMW-08B-051923	EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
		EPA 9056	RID	3	PASI-I
50345453002	GAMW-10-051923	EPA 6010	DJS	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
50345623001	GAMW-11-052223	SM 4500-H+B	BMS	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	MGM	11	PASI-I
50345623002	GAMW-11B-052223	EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
		EPA 9056	RID	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50345179

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
50345623003	GAMW-11C-052223	EPA 6020	MGM	11	PASI-I		
		EPA 7470	EAE	1	PASI-I		
		SM 2540C	AEL	1	PASI-I		
		SM 4500-H+B	BMS	1	PASI-I		
		EPA 9056	RID	3	PASI-I		
		EPA 6010	DJS	3	PASI-I		
		EPA 6020	MGM	11	PASI-I		
		EPA 7470	EAE	1	PASI-I		
		SM 2540C	AEL	1	PASI-I		
50345623004	FD-01-052223	SM 4500-H+B	BMS	1	PASI-I		
		EPA 9056	RID	3	PASI-I		
		EPA 6010	DJS	3	PASI-I		
		EPA 6020	MGM	11	PASI-I		
		EPA 7470	EAE	1	PASI-I		
		SM 2540C	AEL	1	PASI-I		
		SM 4500-H+B	BMS	1	PASI-I		
		50345662001	GAMW-12R-052323	EPA 9056	ADM	3	PASI-I
				EPA 6010	DJS	3	PASI-I
EPA 6020	MGM			11	PASI-I		
EPA 7470	EAE			1	PASI-I		
SM 2540C	AEL			1	PASI-I		
SM 4500-H+B	LHZ			1	PASI-I		
50345662002	GAMW-13-052323			EPA 9056	ADM	3	PASI-I
				EPA 6010	DJS	3	PASI-I
				EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I		
		SM 2540C	AEL	1	PASI-I		
		SM 4500-H+B	LHZ	1	PASI-I		
		50345662003	GAMW-14-052323	EPA 9056	ADM	3	PASI-I
				EPA 6010	DJS	3	PASI-I
				EPA 6020	MGM	11	PASI-I
EPA 7470	EAE			1	PASI-I		
SM 2540C	AEL			1	PASI-I		
SM 4500-H+B	LHZ			1	PASI-I		
50345662004	GAMW-16-052323			EPA 9056	ADM	3	PASI-I
				EPA 6010	DJS	3	PASI-I
				EPA 6020	MGM	11	PASI-I

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SAMPLE ANALYTE COUNT

Project: Baily Assessment

Pace Project No.: 50345179

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50345662005	FD-02	EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
50345792001	MW-105-052423	SM 4500-H+B	BMS	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
50345792002	MW-112-052423	EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50345792003	GAMW-17-052423	EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
50345792004	GAMW-17B-052423	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
50345792005	FB-02-052423	EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I

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SAMPLE ANALYTE COUNT

Project: Baily Assessment

Pace Project No.: 50345179

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50345924001	GAMW-18-052523	SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
50346175001	GAMW-19-053123	SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
50346175002	GAMW-20-053123	SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
50346175003	FD-05-053123	SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
50346299001	GAMW-21-060123	SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
50346299002	GAMW-22-060123	SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50345179

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50346299003	GAMW-22B-060123	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
50346392001	GAMW-23-060223	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM, RID	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
50346392002	GAMW-23B-060223	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM, RID	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
50346392003	FB-05-060223	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345179001	GAMW-01-051723					
EPA 9056	Chloride	3.3	mg/L	0.25	06/01/23 00:20	
EPA 9056	Fluoride	0.17	mg/L	0.050	06/01/23 00:20	
EPA 9056	Sulfate	47.2	mg/L	0.25	06/01/23 00:20	
EPA 6010	Boron	0.12	mg/L	0.10	05/30/23 22:43	
EPA 6010	Calcium	71.6	mg/L	1.0	05/30/23 22:43	
EPA 6020	Antimony	0.00072J	mg/L	0.0010	06/01/23 06:10	
EPA 6020	Arsenic	0.00052J	mg/L	0.0010	06/01/23 06:10	
EPA 6020	Barium	0.029	mg/L	0.0010	06/01/23 06:10	
EPA 6020	Beryllium	0.000058J	mg/L	0.00020	06/01/23 06:10	
EPA 6020	Cadmium	0.00064	mg/L	0.00020	06/01/23 06:10	
EPA 6020	Chromium	0.00076J	mg/L	0.0020	06/01/23 06:10	
EPA 6020	Cobalt	0.00027J	mg/L	0.0010	06/01/23 06:10	
EPA 6020	Molybdenum	0.031	mg/L	0.0010	06/01/23 06:10	
EPA 6020	Selenium	0.020	mg/L	0.0010	06/01/23 06:10	
EPA 6020	Thallium	0.0024	mg/L	0.0010	06/01/23 06:10	
SM 2540C	Total Dissolved Solids	302	mg/L	10.0	05/24/23 08:09	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	06/02/23 13:15	H3
50345179002	GAMW-01B-051723					
EPA 9056	Chloride	12.7	mg/L	2.5	06/01/23 01:14	
EPA 9056	Fluoride	1.7	mg/L	0.050	06/01/23 00:56	
EPA 9056	Sulfate	53.3	mg/L	2.5	06/01/23 01:14	
EPA 6010	Boron	0.35	mg/L	0.10	05/30/23 22:45	
EPA 6010	Calcium	94.8	mg/L	1.0	05/30/23 22:45	
EPA 6020	Antimony	0.00070J	mg/L	0.0010	06/01/23 06:14	
EPA 6020	Arsenic	0.00098J	mg/L	0.0010	06/01/23 06:14	
EPA 6020	Barium	0.023	mg/L	0.0010	06/01/23 06:14	
EPA 6020	Beryllium	0.000032J	mg/L	0.00020	06/01/23 06:14	
EPA 6020	Cadmium	0.00062	mg/L	0.00020	06/01/23 06:14	
EPA 6020	Chromium	0.00051J	mg/L	0.0020	06/01/23 06:14	
EPA 6020	Cobalt	0.00054J	mg/L	0.0010	06/01/23 06:14	
EPA 6020	Molybdenum	0.023	mg/L	0.0010	06/01/23 06:14	
EPA 6020	Selenium	0.015	mg/L	0.0010	06/01/23 06:14	
EPA 6020	Thallium	0.0030	mg/L	0.0010	06/01/23 06:14	
SM 2540C	Total Dissolved Solids	353	mg/L	10.0	05/24/23 08:10	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	06/02/23 13:17	H3
50345179003	GAMW-02-051723					
EPA 9056	Chloride	1.5	mg/L	0.25	06/01/23 01:33	
EPA 9056	Fluoride	2.8	mg/L	0.050	06/01/23 01:33	
EPA 9056	Sulfate	63.0	mg/L	2.5	06/01/23 01:51	
EPA 6010	Boron	0.18	mg/L	0.10	05/30/23 22:47	
EPA 6010	Calcium	82.7	mg/L	1.0	05/30/23 22:47	
EPA 6010	Lithium	0.021	mg/L	0.0080	05/30/23 22:47	
EPA 6020	Antimony	0.00049J	mg/L	0.0010	06/01/23 06:18	
EPA 6020	Arsenic	0.00085J	mg/L	0.0010	06/01/23 06:18	
EPA 6020	Barium	0.021	mg/L	0.0010	06/01/23 06:18	
EPA 6020	Beryllium	0.000027J	mg/L	0.00020	06/01/23 06:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345179003	GAMW-02-051723					
EPA 6020	Cadmium	0.0015	mg/L	0.00020	06/01/23 06:18	
EPA 6020	Chromium	0.00080J	mg/L	0.0020	06/01/23 06:18	
EPA 6020	Cobalt	0.00017J	mg/L	0.0010	06/01/23 06:18	
EPA 6020	Molybdenum	0.018	mg/L	0.0010	06/01/23 06:18	
EPA 6020	Selenium	0.014	mg/L	0.0010	06/01/23 06:18	
EPA 6020	Thallium	0.0027	mg/L	0.0010	06/01/23 06:18	
SM 2540C	Total Dissolved Solids	321	mg/L	10.0	05/24/23 08:10	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	06/02/23 13:18	H3
50345179004	GAMW-03-051723					
EPA 9056	Chloride	1.9	mg/L	0.25	06/01/23 02:09	
EPA 9056	Fluoride	1.9	mg/L	0.050	06/01/23 02:09	
EPA 9056	Sulfate	67.3	mg/L	2.5	06/01/23 02:27	
EPA 6010	Boron	0.19	mg/L	0.10	05/30/23 22:49	
EPA 6010	Calcium	87.3	mg/L	1.0	05/30/23 22:49	
EPA 6020	Antimony	0.00041J	mg/L	0.0010	06/01/23 06:22	
EPA 6020	Arsenic	0.00028J	mg/L	0.0010	06/01/23 06:22	
EPA 6020	Barium	0.013	mg/L	0.0010	06/01/23 06:22	
EPA 6020	Beryllium	0.000035J	mg/L	0.00020	06/01/23 06:22	
EPA 6020	Cadmium	0.00078	mg/L	0.00020	06/01/23 06:22	
EPA 6020	Chromium	0.00035J	mg/L	0.0020	06/01/23 06:22	
EPA 6020	Cobalt	0.00017J	mg/L	0.0010	06/01/23 06:22	
EPA 6020	Molybdenum	0.013	mg/L	0.0010	06/01/23 06:22	
EPA 6020	Selenium	0.013	mg/L	0.0010	06/01/23 06:22	
EPA 6020	Thallium	0.0030	mg/L	0.0010	06/01/23 06:22	
SM 2540C	Total Dissolved Solids	316	mg/L	10.0	05/24/23 08:10	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	06/02/23 13:33	H3
50345179005	GAMW-04-051723					
EPA 9056	Chloride	2.6	mg/L	0.25	06/01/23 02:45	
EPA 9056	Fluoride	0.18	mg/L	0.050	06/01/23 02:45	
EPA 9056	Sulfate	219	mg/L	2.5	06/01/23 03:03	
EPA 6010	Boron	0.36	mg/L	0.10	05/30/23 22:52	
EPA 6010	Calcium	102	mg/L	1.0	05/30/23 22:52	
EPA 6020	Arsenic	0.0037	mg/L	0.0010	06/01/23 06:25	
EPA 6020	Barium	0.022	mg/L	0.0010	06/01/23 06:25	
EPA 6020	Beryllium	0.000060J	mg/L	0.00020	06/01/23 06:25	
EPA 6020	Cadmium	0.00029	mg/L	0.00020	06/01/23 06:25	
EPA 6020	Chromium	0.0011J	mg/L	0.0020	06/01/23 06:25	
EPA 6020	Cobalt	0.00026J	mg/L	0.0010	06/01/23 06:25	
EPA 6020	Lead	0.00011J	mg/L	0.0010	06/01/23 06:25	
EPA 6020	Molybdenum	0.037	mg/L	0.0010	06/01/23 06:25	
EPA 6020	Selenium	0.00071J	mg/L	0.0010	06/01/23 06:25	
SM 2540C	Total Dissolved Solids	443	mg/L	10.0	05/24/23 08:21	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	06/02/23 13:36	H3
50345352001	GAMW-06-051823					
EPA 9056	Chloride	1.9	mg/L	0.25	06/02/23 05:58	
EPA 9056	Fluoride	1.0	mg/L	0.050	06/02/23 05:58	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345352001	GAMW-06-051823					
EPA 9056	Sulfate	35.2	mg/L	0.25	06/02/23 05:58	
EPA 6010	Boron	0.10	mg/L	0.10	05/30/23 23:33	
EPA 6010	Calcium	79.8	mg/L	1.0	05/30/23 23:33	
EPA 6020	Antimony	0.0011	mg/L	0.0010	06/01/23 06:41	
EPA 6020	Arsenic	0.0016	mg/L	0.0010	06/01/23 06:41	
EPA 6020	Barium	0.013	mg/L	0.0010	06/01/23 06:41	
EPA 6020	Beryllium	0.000031J	mg/L	0.00020	06/01/23 06:41	
EPA 6020	Cadmium	0.00023	mg/L	0.00020	06/01/23 06:41	
EPA 6020	Chromium	0.00031J	mg/L	0.0020	06/01/23 06:41	
EPA 6020	Cobalt	0.00031J	mg/L	0.0010	06/01/23 06:41	
EPA 6020	Molybdenum	0.029	mg/L	0.0010	06/01/23 06:41	
EPA 6020	Selenium	0.012	mg/L	0.0010	06/01/23 06:41	
EPA 6020	Thallium	0.0022	mg/L	0.0010	06/01/23 06:41	
SM 2540C	Total Dissolved Solids	261	mg/L	10.0	05/25/23 15:00	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	05/31/23 15:03	H3
50345352002	GAMW-07-051823					
EPA 9056	Chloride	8.4	mg/L	0.25	06/02/23 06:34	
EPA 9056	Fluoride	1.9	mg/L	0.050	06/02/23 06:34	
EPA 9056	Sulfate	15.6	mg/L	0.25	06/02/23 06:34	
EPA 6010	Boron	0.10	mg/L	0.10	05/30/23 23:35	
EPA 6010	Calcium	67.3	mg/L	1.0	05/30/23 23:35	
EPA 6010	Lithium	0.024	mg/L	0.0080	05/30/23 23:35	
EPA 6020	Antimony	0.00047J	mg/L	0.0010	06/01/23 06:45	
EPA 6020	Arsenic	0.0029	mg/L	0.0010	06/01/23 06:45	
EPA 6020	Barium	0.011	mg/L	0.0010	06/01/23 06:45	
EPA 6020	Cadmium	0.00050	mg/L	0.00020	06/01/23 06:45	
EPA 6020	Chromium	0.00050J	mg/L	0.0020	06/01/23 06:45	
EPA 6020	Cobalt	0.00077J	mg/L	0.0010	06/01/23 06:45	
EPA 6020	Molybdenum	0.017	mg/L	0.0010	06/01/23 06:45	
EPA 6020	Selenium	0.0017	mg/L	0.0010	06/01/23 06:45	
EPA 6020	Thallium	0.0091	mg/L	0.0010	06/01/23 06:45	
SM 2540C	Total Dissolved Solids	233	mg/L	10.0	05/25/23 15:00	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/31/23 15:07	H3
50345352003	GAMW-08-051823					
EPA 9056	Chloride	2.5	mg/L	0.25	06/02/23 07:10	
EPA 9056	Fluoride	1.1	mg/L	0.050	06/02/23 07:10	
EPA 9056	Sulfate	20.1	mg/L	0.25	06/02/23 07:10	
EPA 6010	Boron	0.20	mg/L	0.10	05/30/23 23:37	
EPA 6010	Calcium	68.0	mg/L	1.0	05/30/23 23:37	
EPA 6020	Antimony	0.0012	mg/L	0.0010	06/01/23 06:49	
EPA 6020	Arsenic	0.0038	mg/L	0.0010	06/01/23 06:49	
EPA 6020	Barium	0.019	mg/L	0.0010	06/01/23 06:49	
EPA 6020	Cadmium	0.0011	mg/L	0.00020	06/01/23 06:49	
EPA 6020	Chromium	0.0023	mg/L	0.0020	06/01/23 06:49	
EPA 6020	Cobalt	0.00011J	mg/L	0.0010	06/01/23 06:49	
EPA 6020	Molybdenum	0.021	mg/L	0.0010	06/01/23 06:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345352003	GAMW-08-051823					
EPA 6020	Selenium	0.015	mg/L	0.0010	06/01/23 06:49	
EPA 6020	Thallium	0.0017	mg/L	0.0010	06/01/23 06:49	
SM 2540C	Total Dissolved Solids	218	mg/L	10.0	05/25/23 15:01	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/31/23 15:08	H3
50345352004	FB-01-051823					
EPA 9056	Chloride	0.15J	mg/L	0.25	06/02/23 07:46	
EPA 6020	Barium	0.0026	mg/L	0.0010	06/01/23 06:53	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	05/31/23 15:08	H3
50345453001	GAMW-08B-051923					
EPA 9056	Chloride	8.4	mg/L	0.25	06/03/23 17:25	
EPA 9056	Fluoride	0.67	mg/L	0.050	06/03/23 17:25	
EPA 9056	Sulfate	24.5	mg/L	0.25	06/03/23 17:25	
EPA 6010	Boron	0.25	mg/L	0.10	06/05/23 09:40	
EPA 6010	Calcium	93.8	mg/L	1.0	06/05/23 09:40	
EPA 6010	Lithium	0.016J	mg/L	0.0080	06/05/23 09:40	
EPA 6020	Antimony	0.00025J	mg/L	0.0010	06/01/23 06:57	
EPA 6020	Arsenic	0.0027	mg/L	0.0010	06/01/23 06:57	
EPA 6020	Barium	0.020	mg/L	0.0010	06/01/23 06:57	
EPA 6020	Beryllium	0.000082J	mg/L	0.00020	06/01/23 06:57	
EPA 6020	Cadmium	0.0060	mg/L	0.00020	06/01/23 06:57	
EPA 6020	Chromium	0.0017J	mg/L	0.0020	06/01/23 06:57	
EPA 6020	Cobalt	0.0037	mg/L	0.0010	06/01/23 06:57	
EPA 6020	Molybdenum	0.028	mg/L	0.0010	06/01/23 06:57	
EPA 6020	Selenium	0.0048	mg/L	0.0010	06/01/23 06:57	
EPA 6020	Thallium	0.010	mg/L	0.0010	06/01/23 06:57	
SM 2540C	Total Dissolved Solids	355	mg/L	10.0	05/26/23 08:34	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	06/05/23 11:27	H3
50345453002	GAMW-10-051923					
EPA 9056	Chloride	2.0	mg/L	0.25	06/02/23 23:16	
EPA 9056	Fluoride	3.7	mg/L	0.050	06/02/23 23:16	
EPA 9056	Sulfate	56.2	mg/L	2.5	06/02/23 23:34	
EPA 6010	Boron	0.18	mg/L	0.10	06/05/23 09:42	
EPA 6010	Calcium	59.9	mg/L	1.0	06/05/23 09:42	
EPA 6020	Antimony	0.00051J	mg/L	0.0010	06/01/23 07:13	
EPA 6020	Arsenic	0.00059J	mg/L	0.0010	06/01/23 07:13	
EPA 6020	Barium	0.015	mg/L	0.0010	06/01/23 07:13	
EPA 6020	Beryllium	0.000030J	mg/L	0.00020	06/01/23 07:13	
EPA 6020	Cadmium	0.00022	mg/L	0.00020	06/01/23 07:13	
EPA 6020	Chromium	0.00084J	mg/L	0.0020	06/01/23 07:13	
EPA 6020	Cobalt	0.00012J	mg/L	0.0010	06/01/23 07:13	
EPA 6020	Molybdenum	0.019	mg/L	0.0010	06/01/23 07:13	
EPA 6020	Selenium	0.0074	mg/L	0.0010	06/01/23 07:13	
EPA 6020	Thallium	0.0027	mg/L	0.0010	06/01/23 07:13	
SM 2540C	Total Dissolved Solids	243	mg/L	10.0	05/26/23 08:34	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	06/03/23 16:41	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345623001	GAMW-11-052223					
EPA 9056	Chloride	6.2	mg/L	0.25	06/06/23 05:55	
EPA 9056	Fluoride	1.9	mg/L	0.050	06/06/23 05:55	
EPA 9056	Sulfate	42.8	mg/L	0.25	06/06/23 05:55	
EPA 6010	Boron	0.19	mg/L	0.10	06/05/23 09:59	
EPA 6010	Calcium	58.9	mg/L	1.0	06/05/23 09:59	
EPA 6020	Antimony	0.00054J	mg/L	0.0010	06/01/23 07:45	
EPA 6020	Arsenic	0.0014	mg/L	0.0010	06/01/23 07:45	
EPA 6020	Barium	0.023	mg/L	0.0010	06/01/23 07:45	
EPA 6020	Chromium	0.0020	mg/L	0.0020	06/01/23 07:45	
EPA 6020	Cobalt	0.00016J	mg/L	0.0010	06/01/23 07:45	
EPA 6020	Molybdenum	0.097	mg/L	0.0010	06/01/23 07:45	
EPA 6020	Selenium	0.10	mg/L	0.0010	06/01/23 07:45	
EPA 6020	Thallium	0.000073J	mg/L	0.0010	06/01/23 07:45	
SM 2540C	Total Dissolved Solids	268	mg/L	10.0	05/26/23 12:30	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	06/05/23 11:48	H3
50345623002	GAMW-11B-052223					
EPA 9056	Chloride	743	mg/L	25.0	06/06/23 09:08	
EPA 9056	Sulfate	840	mg/L	25.0	06/06/23 09:08	
EPA 6010	Boron	0.42	mg/L	0.10	06/05/23 10:01	
EPA 6010	Calcium	142	mg/L	1.0	06/05/23 10:01	
EPA 6020	Arsenic	0.00065J	mg/L	0.0010	06/01/23 07:49	
EPA 6020	Barium	0.21	mg/L	0.0020	06/01/23 18:12	
EPA 6020	Chromium	0.00050J	mg/L	0.0020	06/01/23 07:49	
EPA 6020	Cobalt	0.00030J	mg/L	0.0010	06/01/23 07:49	
EPA 6020	Molybdenum	0.0087	mg/L	0.0010	06/01/23 07:49	
EPA 6020	Selenium	0.00060J	mg/L	0.0010	06/01/23 07:49	
SM 2540C	Total Dissolved Solids	595	mg/L	10.0	05/27/23 08:22	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	06/05/23 11:49	H3
50345623003	GAMW-11C-052223					
EPA 9056	Chloride	5.0	mg/L	0.25	06/06/23 09:26	
EPA 9056	Fluoride	0.62	mg/L	0.050	06/06/23 09:26	
EPA 9056	Sulfate	75.9	mg/L	2.5	06/06/23 09:43	
EPA 6010	Boron	0.28	mg/L	0.10	06/05/23 10:04	
EPA 6010	Calcium	82.4	mg/L	1.0	06/05/23 10:04	
EPA 6020	Antimony	0.00022J	mg/L	0.0010	06/01/23 07:53	
EPA 6020	Arsenic	0.0025	mg/L	0.0010	06/01/23 07:53	
EPA 6020	Barium	0.033	mg/L	0.0010	06/01/23 07:53	
EPA 6020	Cadmium	0.000061J	mg/L	0.00020	06/01/23 07:53	
EPA 6020	Chromium	0.00035J	mg/L	0.0020	06/01/23 07:53	
EPA 6020	Cobalt	0.00015J	mg/L	0.0010	06/01/23 07:53	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	06/01/23 07:53	
EPA 6020	Selenium	0.23	mg/L	0.0010	06/01/23 07:53	
SM 2540C	Total Dissolved Solids	335	mg/L	10.0	05/27/23 08:22	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	06/05/23 11:51	H3
50345623004	FD-01-052223					
EPA 9056	Chloride	75.1	mg/L	2.5	06/06/23 11:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345623004	FD-01-052223					
EPA 9056	Sulfate	83.8	mg/L	2.5	06/06/23 11:48	
EPA 6010	Boron	0.43	mg/L	0.10	06/05/23 10:06	
EPA 6010	Calcium	147	mg/L	1.0	06/05/23 10:06	
EPA 6020	Arsenic	0.00064J	mg/L	0.0010	06/01/23 07:57	
EPA 6020	Barium	0.21	mg/L	0.0020	06/01/23 18:16	
EPA 6020	Chromium	0.00046J	mg/L	0.0020	06/01/23 07:57	
EPA 6020	Cobalt	0.00030J	mg/L	0.0010	06/01/23 07:57	
EPA 6020	Molybdenum	0.0080	mg/L	0.0010	06/01/23 07:57	
SM 2540C	Total Dissolved Solids	590	mg/L	10.0	05/27/23 08:23	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	06/05/23 11:53	H3
50345662001	GAMW-12R-052323					
EPA 9056	Chloride	15.9	mg/L	2.5	06/05/23 23:03	
EPA 9056	Fluoride	0.22	mg/L	0.050	06/05/23 22:45	
EPA 9056	Sulfate	477	mg/L	2.5	06/05/23 23:03	
EPA 6010	Boron	1.4	mg/L	0.10	06/05/23 10:09	
EPA 6010	Calcium	214	mg/L	2.0	06/05/23 11:04	
EPA 6010	Lithium	0.023	mg/L	0.0080	06/05/23 10:09	
EPA 6020	Antimony	0.0011	mg/L	0.0010	06/01/23 08:12	
EPA 6020	Arsenic	0.0019	mg/L	0.0010	06/01/23 08:12	
EPA 6020	Barium	0.078	mg/L	0.0010	06/01/23 08:12	
EPA 6020	Cadmium	0.000090J	mg/L	0.00020	06/01/23 08:12	
EPA 6020	Chromium	0.00030J	mg/L	0.0020	06/01/23 08:12	
EPA 6020	Cobalt	0.00042J	mg/L	0.0010	06/01/23 08:12	
EPA 6020	Molybdenum	0.068	mg/L	0.0010	06/01/23 08:12	
EPA 6020	Selenium	0.041	mg/L	0.0010	06/01/23 08:12	
EPA 6020	Thallium	0.00024J	mg/L	0.0010	06/01/23 08:12	
SM 2540C	Total Dissolved Solids	1090	mg/L	20.0	05/29/23 08:40	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	06/05/23 15:38	H3
50345662002	GAMW-13-052323					
EPA 9056	Chloride	8.2	mg/L	0.25	06/06/23 00:32	
EPA 9056	Fluoride	0.14	mg/L	0.050	06/06/23 00:32	
EPA 9056	Sulfate	122	mg/L	2.5	06/06/23 00:50	
EPA 6010	Boron	0.56	mg/L	0.10	06/05/23 10:11	
EPA 6010	Calcium	167	mg/L	1.0	06/05/23 10:11	
EPA 6020	Antimony	0.00051J	mg/L	0.0010	06/01/23 08:16	
EPA 6020	Arsenic	0.0010	mg/L	0.0010	06/01/23 08:16	
EPA 6020	Barium	0.053	mg/L	0.0010	06/01/23 08:16	
EPA 6020	Cobalt	0.00072J	mg/L	0.0010	06/01/23 08:16	
EPA 6020	Molybdenum	0.0091	mg/L	0.0010	06/01/23 08:16	
EPA 6020	Selenium	0.017	mg/L	0.0010	06/01/23 08:16	
EPA 6020	Thallium	0.00041J	mg/L	0.0010	06/01/23 08:16	
SM 2540C	Total Dissolved Solids	627	mg/L	10.0	05/29/23 08:41	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	06/05/23 15:42	H3
50345662003	GAMW-14-052323					
EPA 9056	Chloride	4.7	mg/L	0.25	06/06/23 01:44	
EPA 9056	Fluoride	0.24	mg/L	0.050	06/06/23 01:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345662003	GAMW-14-052323					
EPA 9056	Sulfate	108	mg/L	2.5	06/06/23 02:02	
EPA 6010	Boron	0.30	mg/L	0.10	06/05/23 10:14	
EPA 6010	Calcium	88.9	mg/L	1.0	06/05/23 10:14	
EPA 6010	Lithium	0.010J	mg/L	0.0080	06/05/23 10:14	
EPA 6020	Antimony	0.00056J	mg/L	0.0010	06/01/23 08:21	
EPA 6020	Arsenic	0.0023	mg/L	0.0010	06/01/23 08:21	
EPA 6020	Barium	0.031	mg/L	0.0010	06/01/23 08:21	
EPA 6020	Cadmium	0.00030	mg/L	0.00020	06/01/23 08:21	
EPA 6020	Chromium	0.00033J	mg/L	0.0020	06/01/23 08:21	
EPA 6020	Cobalt	0.00082J	mg/L	0.0010	06/01/23 08:21	
EPA 6020	Molybdenum	0.014	mg/L	0.0010	06/01/23 08:21	
EPA 6020	Selenium	0.020	mg/L	0.0010	06/01/23 08:21	
EPA 6020	Thallium	0.00075J	mg/L	0.0010	06/01/23 08:21	
SM 2540C	Total Dissolved Solids	368	mg/L	10.0	05/29/23 08:41	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	06/05/23 15:43	H3
50345662004	GAMW-16-052323					
EPA 9056	Chloride	3.5	mg/L	0.25	06/06/23 12:12	
EPA 9056	Fluoride	1.2	mg/L	0.050	06/06/23 12:12	
EPA 9056	Sulfate	87.5	mg/L	2.5	06/06/23 12:29	
EPA 6010	Boron	0.64	mg/L	0.10	06/05/23 10:16	
EPA 6010	Calcium	91.4	mg/L	1.0	06/05/23 10:16	
EPA 6010	Lithium	0.082	mg/L	0.0080	06/05/23 10:16	
EPA 6020	Antimony	0.0010	mg/L	0.0010	06/01/23 08:24	
EPA 6020	Arsenic	0.024	mg/L	0.0010	06/01/23 08:24	
EPA 6020	Barium	0.013	mg/L	0.0010	06/01/23 08:24	
EPA 6020	Cadmium	0.0015	mg/L	0.00020	06/01/23 08:24	
EPA 6020	Chromium	0.0013J	mg/L	0.0020	06/01/23 08:24	
EPA 6020	Cobalt	0.00047J	mg/L	0.0010	06/01/23 08:24	
EPA 6020	Molybdenum	0.067	mg/L	0.0010	06/01/23 08:24	
EPA 6020	Selenium	0.015	mg/L	0.0010	06/01/23 08:24	
EPA 6020	Thallium	0.0028	mg/L	0.0010	06/01/23 08:24	
SM 2540C	Total Dissolved Solids	378	mg/L	10.0	05/29/23 08:41	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	06/06/23 11:12	H3
50345662005	FD-02					
EPA 9056	Chloride	16.0	mg/L	2.5	06/06/23 04:25	
EPA 9056	Fluoride	0.22	mg/L	0.050	06/06/23 04:07	
EPA 9056	Sulfate	480	mg/L	2.5	06/06/23 04:25	
EPA 6010	Boron	1.4	mg/L	0.10	06/05/23 10:29	
EPA 6010	Calcium	211	mg/L	2.0	06/05/23 11:06	
EPA 6010	Lithium	0.020J	mg/L	0.0080	06/05/23 10:29	
EPA 6020	Antimony	0.0011	mg/L	0.0010	06/01/23 08:28	
EPA 6020	Arsenic	0.0019	mg/L	0.0010	06/01/23 08:28	
EPA 6020	Barium	0.077	mg/L	0.0010	06/01/23 08:28	
EPA 6020	Cadmium	0.00080J	mg/L	0.00020	06/01/23 08:28	
EPA 6020	Chromium	0.00045J	mg/L	0.0020	06/01/23 08:28	
EPA 6020	Cobalt	0.00043J	mg/L	0.0010	06/01/23 08:28	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345662005	FD-02					
EPA 6020	Molybdenum	0.068	mg/L	0.0010	06/01/23 08:28	
EPA 6020	Selenium	0.042	mg/L	0.0010	06/01/23 08:28	
EPA 6020	Thallium	0.00023J	mg/L	0.0010	06/01/23 08:28	
SM 2540C	Total Dissolved Solids	1070	mg/L	20.0	05/29/23 08:42	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	06/06/23 11:16	H3
50345792001	MW-105-052423					
EPA 9056	Chloride	17.3	mg/L	2.5	06/06/23 15:58	
EPA 9056	Fluoride	0.79	mg/L	0.050	06/06/23 15:40	
EPA 9056	Sulfate	83.3	mg/L	2.5	06/06/23 15:58	
EPA 6010	Boron	0.15	mg/L	0.10	06/05/23 10:31	
EPA 6010	Calcium	77.6	mg/L	1.0	06/05/23 10:31	
EPA 6010	Lithium	0.0097J	mg/L	0.0080	06/05/23 10:31	
EPA 6020	Antimony	0.00091J	mg/L	0.0010	06/07/23 11:50	
EPA 6020	Arsenic	0.0055	mg/L	0.0010	06/07/23 11:50	
EPA 6020	Barium	0.029	mg/L	0.0010	06/07/23 11:50	
EPA 6020	Cadmium	0.000039J	mg/L	0.00020	06/07/23 11:50	
EPA 6020	Chromium	0.00054J	mg/L	0.0020	06/07/23 11:50	
EPA 6020	Cobalt	0.0042	mg/L	0.0010	06/07/23 11:50	
EPA 6020	Lead	0.00035J	mg/L	0.0010	06/07/23 11:50	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	06/07/23 11:50	
EPA 6020	Selenium	0.020	mg/L	0.0010	06/07/23 11:50	
EPA 6020	Thallium	0.0029	mg/L	0.0010	06/07/23 11:50	
SM 2540C	Total Dissolved Solids	370	mg/L	20.0	05/31/23 08:14	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	06/07/23 15:40	H3
50345792002	MW-112-052423					
EPA 9056	Chloride	5.8	mg/L	0.25	06/06/23 16:16	
EPA 9056	Fluoride	0.91	mg/L	0.050	06/06/23 16:16	
EPA 9056	Sulfate	38.6	mg/L	0.25	06/06/23 16:16	
EPA 6010	Boron	0.097J	mg/L	0.10	06/05/23 10:34	
EPA 6010	Calcium	95.4	mg/L	1.0	06/05/23 10:34	
EPA 6010	Lithium	0.0082J	mg/L	0.0080	06/05/23 10:34	
EPA 6020	Antimony	0.00053J	mg/L	0.0010	06/07/23 11:54	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	06/07/23 11:54	
EPA 6020	Barium	0.031	mg/L	0.0010	06/07/23 11:54	
EPA 6020	Cadmium	0.000019J	mg/L	0.00020	06/07/23 11:54	
EPA 6020	Chromium	0.00038J	mg/L	0.0020	06/07/23 11:54	
EPA 6020	Cobalt	0.00026J	mg/L	0.0010	06/07/23 11:54	
EPA 6020	Molybdenum	0.067	mg/L	0.0010	06/07/23 11:54	
EPA 6020	Selenium	0.022	mg/L	0.0010	06/07/23 11:54	
SM 2540C	Total Dissolved Solids	336	mg/L	10.0	05/31/23 08:15	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	06/07/23 15:41	H3
50345792003	GAMW-17-052423					
EPA 9056	Chloride	4.8	mg/L	0.25	06/06/23 16:52	
EPA 9056	Fluoride	2.4	mg/L	0.050	06/06/23 16:52	
EPA 9056	Sulfate	130	mg/L	2.5	06/06/23 17:10	
EPA 6010	Boron	0.43	mg/L	0.10	06/05/23 10:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345792003	GAMW-17-052423					
EPA 6010	Calcium	139	mg/L	1.0	06/05/23 10:36	
EPA 6010	Lithium	0.010J	mg/L	0.0080	06/05/23 10:36	
EPA 6020	Antimony	0.0012	mg/L	0.0010	06/07/23 12:07	
EPA 6020	Arsenic	0.037	mg/L	0.0010	06/07/23 12:07	
EPA 6020	Barium	0.046	mg/L	0.0010	06/07/23 12:07	
EPA 6020	Cadmium	0.000089J	mg/L	0.00020	06/07/23 12:07	
EPA 6020	Chromium	0.00024J	mg/L	0.0020	06/07/23 12:07	
EPA 6020	Cobalt	0.00061J	mg/L	0.0010	06/07/23 12:07	
EPA 6020	Lead	0.000055J	mg/L	0.0010	06/07/23 12:07	
EPA 6020	Molybdenum	0.34	mg/L	0.0030	06/08/23 06:22	
EPA 6020	Selenium	0.049	mg/L	0.0010	06/07/23 12:07	
EPA 6020	Thallium	0.0019	mg/L	0.0010	06/07/23 12:07	
SM 2540C	Total Dissolved Solids	512	mg/L	10.0	05/31/23 08:15	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	06/07/23 15:41	H3
50345792004	GAMW-17B-052423					
EPA 9056	Chloride	6.1	mg/L	0.25	06/06/23 17:28	
EPA 9056	Fluoride	1.6	mg/L	0.050	06/06/23 17:28	
EPA 9056	Sulfate	107	mg/L	2.5	06/06/23 17:46	
EPA 6010	Boron	0.56	mg/L	0.10	06/05/23 10:39	
EPA 6010	Calcium	115	mg/L	1.0	06/05/23 10:39	
EPA 6010	Lithium	0.021	mg/L	0.0080	06/05/23 10:39	
EPA 6020	Antimony	0.000061J	mg/L	0.0010	06/07/23 12:10	
EPA 6020	Arsenic	0.0034	mg/L	0.0010	06/07/23 12:10	
EPA 6020	Barium	0.035	mg/L	0.0010	06/07/23 12:10	
EPA 6020	Cadmium	0.000023J	mg/L	0.00020	06/07/23 12:10	
EPA 6020	Chromium	0.00025J	mg/L	0.0020	06/07/23 12:10	
EPA 6020	Cobalt	0.00019J	mg/L	0.0010	06/07/23 12:10	
EPA 6020	Lead	0.000043J	mg/L	0.0010	06/07/23 12:10	
EPA 6020	Molybdenum	0.14	mg/L	0.0010	06/07/23 12:10	
EPA 6020	Selenium	0.00026J	mg/L	0.0010	06/07/23 12:10	
SM 2540C	Total Dissolved Solids	446	mg/L	10.0	05/31/23 08:15	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	06/07/23 15:43	H3
50345792005	FB-02-052423					
EPA 9056	Chloride	0.11J	mg/L	0.25	06/06/23 18:41	
EPA 6010	Calcium	0.16J	mg/L	1.0	06/05/23 10:41	
EPA 6020	Barium	0.00088J	mg/L	0.0010	06/07/23 12:13	
EPA 6020	Cadmium	0.000015J	mg/L	0.00020	06/07/23 12:13	
EPA 6020	Chromium	0.00025J	mg/L	0.0020	06/07/23 12:13	
EPA 6020	Lead	0.000052J	mg/L	0.0010	06/07/23 12:13	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	06/07/23 15:43	H3
50345924001	GAMW-18-052523					
EPA 9056	Chloride	3.5	mg/L	0.25	06/08/23 08:08	
EPA 9056	Fluoride	1.7	mg/L	0.050	06/08/23 08:08	
EPA 9056	Sulfate	35.2	mg/L	0.25	06/08/23 08:08	
EPA 6010	Boron	0.14	mg/L	0.10	06/05/23 10:43	
EPA 6010	Calcium	83.6	mg/L	1.0	06/05/23 10:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50345924001	GAMW-18-052523					
EPA 6020	Antimony	0.0013	mg/L	0.0010	06/07/23 12:17	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	06/07/23 12:17	
EPA 6020	Barium	0.027	mg/L	0.0010	06/07/23 12:17	
EPA 6020	Cadmium	0.000084J	mg/L	0.00020	06/07/23 12:17	
EPA 6020	Chromium	0.00049J	mg/L	0.0020	06/07/23 12:17	
EPA 6020	Cobalt	0.00019J	mg/L	0.0010	06/07/23 12:17	
EPA 6020	Lead	0.000036J	mg/L	0.0010	06/07/23 12:17	
EPA 6020	Molybdenum	0.027	mg/L	0.0010	06/07/23 12:17	
EPA 6020	Selenium	0.010	mg/L	0.0010	06/07/23 12:17	
EPA 6020	Thallium	0.0027	mg/L	0.0010	06/07/23 12:17	
SM 2540C	Total Dissolved Solids	309	mg/L	10.0	06/01/23 08:28	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	06/12/23 06:49	H3
50346175001	GAMW-19-053123					
EPA 9056	Chloride	13.0	mg/L	0.25	06/13/23 17:58	
EPA 9056	Fluoride	0.53	mg/L	0.050	06/13/23 17:58	
EPA 9056	Sulfate	46.5	mg/L	0.25	06/13/23 17:58	
EPA 6010	Calcium	60.4	mg/L	1.0	06/12/23 14:53	
EPA 6020	Antimony	0.00037J	mg/L	0.0010	06/07/23 12:30	
EPA 6020	Arsenic	0.00062J	mg/L	0.0010	06/07/23 12:30	
EPA 6020	Barium	0.025	mg/L	0.0010	06/07/23 12:30	
EPA 6020	Cadmium	0.000020J	mg/L	0.00020	06/07/23 12:30	
EPA 6020	Chromium	0.00043J	mg/L	0.0020	06/07/23 12:30	
EPA 6020	Cobalt	0.00023J	mg/L	0.0010	06/07/23 12:30	
EPA 6020	Lead	0.000052J	mg/L	0.0010	06/07/23 12:30	
EPA 6020	Molybdenum	0.039	mg/L	0.0010	06/07/23 12:30	
EPA 6020	Selenium	0.00035J	mg/L	0.0010	06/07/23 12:30	
SM 2540C	Total Dissolved Solids	240	mg/L	10.0	06/05/23 16:04	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	06/11/23 22:28	H3
50346175002	GAMW-20-053123					
EPA 9056	Chloride	5.2	mg/L	0.25	06/13/23 19:25	
EPA 9056	Fluoride	0.056J	mg/L	0.050	06/13/23 19:25	
EPA 9056	Sulfate	51.1	mg/L	2.5	06/13/23 18:33	
EPA 6010	Calcium	19.4	mg/L	1.0	06/12/23 14:55	
EPA 6020	Antimony	0.00019J	mg/L	0.0010	06/07/23 12:34	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	06/07/23 12:34	
EPA 6020	Barium	0.0052	mg/L	0.0010	06/07/23 12:34	
EPA 6020	Cadmium	0.000043J	mg/L	0.00020	06/07/23 12:34	
EPA 6020	Chromium	0.0017J	mg/L	0.0020	06/07/23 12:34	
EPA 6020	Cobalt	0.00026J	mg/L	0.0010	06/07/23 12:34	
EPA 6020	Lead	0.00033J	mg/L	0.0010	06/07/23 12:34	
EPA 6020	Molybdenum	0.027	mg/L	0.0010	06/07/23 12:34	
EPA 6020	Selenium	0.00033J	mg/L	0.0010	06/07/23 12:34	
SM 2540C	Total Dissolved Solids	133	mg/L	10.0	06/05/23 16:04	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	06/11/23 22:29	H3
50346175003	FD-05-053123					
EPA 9056	Chloride	5.2	mg/L	0.25	06/13/23 21:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50346175003	FD-05-053123					
EPA 9056	Fluoride	0.057J	mg/L	0.050	06/13/23 21:43	
EPA 9056	Sulfate	51.4	mg/L	2.5	06/13/23 22:01	
EPA 6010	Calcium	19.8	mg/L	1.0	06/12/23 14:57	
EPA 6020	Antimony	0.00021J	mg/L	0.0010	06/07/23 12:37	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	06/07/23 12:37	
EPA 6020	Barium	0.0052	mg/L	0.0010	06/07/23 12:37	
EPA 6020	Cadmium	0.000053J	mg/L	0.00020	06/07/23 12:37	
EPA 6020	Chromium	0.0018J	mg/L	0.0020	06/07/23 12:37	
EPA 6020	Cobalt	0.00027J	mg/L	0.0010	06/07/23 12:37	
EPA 6020	Lead	0.00037J	mg/L	0.0010	06/07/23 12:37	
EPA 6020	Molybdenum	0.027	mg/L	0.0010	06/07/23 12:37	
EPA 6020	Selenium	0.00034J	mg/L	0.0010	06/07/23 12:37	
SM 2540C	Total Dissolved Solids	138	mg/L	10.0	06/05/23 16:05	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	06/11/23 22:27	H3
50346299001	GAMW-21-060123					
EPA 9056	Chloride	19.8	mg/L	2.5	06/14/23 00:32	
EPA 9056	Fluoride	0.44	mg/L	0.050	06/14/23 00:14	
EPA 9056	Sulfate	46.0	mg/L	2.5	06/14/23 00:32	
EPA 6010	Boron	0.084J	mg/L	0.10	06/15/23 15:27	
EPA 6010	Calcium	31.6	mg/L	1.0	06/15/23 15:27	
EPA 6020	Antimony	0.00036J	mg/L	0.0010	06/07/23 12:40	
EPA 6020	Arsenic	0.0064	mg/L	0.0010	06/07/23 12:40	
EPA 6020	Barium	0.014	mg/L	0.0010	06/07/23 12:40	
EPA 6020	Beryllium	0.000047J	mg/L	0.00020	06/07/23 12:40	
EPA 6020	Cadmium	0.00038	mg/L	0.00020	06/07/23 12:40	
EPA 6020	Chromium	0.0030	mg/L	0.0020	06/07/23 12:40	
EPA 6020	Cobalt	0.00069J	mg/L	0.0010	06/07/23 12:40	
EPA 6020	Lead	0.00040J	mg/L	0.0010	06/07/23 12:40	
EPA 6020	Molybdenum	3.3	mg/L	0.025	06/08/23 06:25	
EPA 6020	Selenium	0.00083J	mg/L	0.0010	06/07/23 12:40	
EPA 6020	Thallium	0.000044J	mg/L	0.0010	06/07/23 12:40	
SM 2540C	Total Dissolved Solids	230	mg/L	10.0	06/06/23 09:21	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	06/14/23 15:08	H3
50346299002	GAMW-22-060123					
EPA 9056	Chloride	22.4	mg/L	2.5	06/13/23 11:41	
EPA 9056	Fluoride	0.89	mg/L	0.050	06/13/23 11:23	
EPA 9056	Sulfate	36.7	mg/L	0.25	06/13/23 11:23	
EPA 6010	Boron	0.095J	mg/L	0.10	06/15/23 15:29	
EPA 6010	Calcium	37.4	mg/L	1.0	06/15/23 15:29	
EPA 6020	Antimony	0.00046J	mg/L	0.0010	06/07/23 12:54	
EPA 6020	Arsenic	0.0046	mg/L	0.0010	06/07/23 12:54	
EPA 6020	Barium	0.0077	mg/L	0.0010	06/07/23 12:54	
EPA 6020	Cadmium	0.00028	mg/L	0.00020	06/07/23 12:54	
EPA 6020	Chromium	0.0065	mg/L	0.0020	06/07/23 12:54	
EPA 6020	Cobalt	0.000089J	mg/L	0.0010	06/07/23 12:54	
EPA 6020	Lead	0.00016J	mg/L	0.0010	06/07/23 12:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50346299002	GAMW-22-060123					
EPA 6020	Molybdenum	0.0055	mg/L	0.0010	06/07/23 12:54	
EPA 6020	Selenium	0.0029	mg/L	0.0010	06/07/23 12:54	
EPA 6020	Thallium	0.0038	mg/L	0.0010	06/07/23 12:54	
SM 2540C	Total Dissolved Solids	197	mg/L	10.0	06/06/23 09:22	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	06/14/23 15:09	H3
50346299003	GAMW-22B-060123					
EPA 9056	Chloride	114	mg/L	2.5	06/13/23 12:17	
EPA 9056	Fluoride	1.2	mg/L	0.050	06/13/23 11:59	
EPA 9056	Sulfate	54.7	mg/L	2.5	06/13/23 12:17	
EPA 6010	Boron	0.19	mg/L	0.10	06/15/23 15:32	
EPA 6010	Calcium	94.7	mg/L	1.0	06/15/23 15:32	
EPA 6010	Lithium	0.011J	mg/L	0.0080	06/15/23 15:32	
EPA 6020	Antimony	0.0011	mg/L	0.0010	06/07/23 12:57	
EPA 6020	Arsenic	0.00039J	mg/L	0.0010	06/07/23 12:57	
EPA 6020	Barium	0.037	mg/L	0.0010	06/07/23 12:57	
EPA 6020	Cadmium	0.013	mg/L	0.00020	06/07/23 12:57	
EPA 6020	Chromium	0.0024	mg/L	0.0020	06/07/23 12:57	
EPA 6020	Cobalt	0.0016	mg/L	0.0010	06/07/23 12:57	
EPA 6020	Lead	0.000051J	mg/L	0.0010	06/07/23 12:57	
EPA 6020	Molybdenum	0.029	mg/L	0.0010	06/07/23 12:57	
EPA 6020	Selenium	0.0048	mg/L	0.0010	06/07/23 12:57	
EPA 6020	Thallium	0.015	mg/L	0.0010	06/07/23 12:57	
SM 2540C	Total Dissolved Solids	487	mg/L	10.0	06/07/23 08:30	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	06/14/23 15:11	H3
50346392001	GAMW-23-060223					
EPA 9056	Chloride	21.7	mg/L	2.5	06/16/23 16:33	
EPA 9056	Fluoride	1.8	mg/L	0.050	06/15/23 03:52	
EPA 9056	Sulfate	53.5	mg/L	2.5	06/16/23 16:33	
EPA 6010	Boron	0.23	mg/L	0.10	06/15/23 15:47	
EPA 6010	Calcium	14.4	mg/L	1.0	06/15/23 15:47	
EPA 6020	Antimony	0.0013	mg/L	0.0010	06/13/23 10:25	
EPA 6020	Arsenic	0.0033	mg/L	0.0010	06/13/23 10:25	
EPA 6020	Barium	0.013	mg/L	0.0010	06/13/23 10:25	
EPA 6020	Cadmium	0.00010J	mg/L	0.00020	06/13/23 10:25	
EPA 6020	Chromium	0.0088	mg/L	0.0020	06/13/23 10:25	
EPA 6020	Cobalt	0.00053J	mg/L	0.0010	06/13/23 10:25	
EPA 6020	Lead	0.00016J	mg/L	0.0010	06/13/23 10:25	
EPA 6020	Molybdenum	0.045	mg/L	0.0010	06/13/23 10:25	
EPA 6020	Selenium	0.011	mg/L	0.0010	06/13/23 10:25	
EPA 6020	Thallium	0.0033	mg/L	0.0010	06/13/23 10:25	
SM 2540C	Total Dissolved Solids	346	mg/L	10.0	06/07/23 08:33	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	06/15/23 16:08	H3
50346392002	GAMW-23B-060223					
EPA 9056	Chloride	23.4	mg/L	2.5	06/16/23 16:50	
EPA 9056	Fluoride	1.4	mg/L	0.050	06/15/23 04:28	
EPA 9056	Sulfate	79.3	mg/L	2.5	06/16/23 16:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345179

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50346392002	GAMW-23B-060223					
EPA 6010	Boron	0.45	mg/L	0.10	06/15/23 15:49	
EPA 6010	Calcium	84.6	mg/L	1.0	06/15/23 15:49	
EPA 6010	Lithium	0.011J	mg/L	0.0080	06/15/23 15:49	
EPA 6020	Antimony	0.00052J	mg/L	0.0010	06/13/23 12:40	
EPA 6020	Arsenic	0.0079	mg/L	0.0010	06/13/23 12:40	
EPA 6020	Barium	0.044	mg/L	0.0010	06/13/23 12:40	
EPA 6020	Cadmium	0.000034J	mg/L	0.00020	06/13/23 12:40	
EPA 6020	Chromium	0.00035J	mg/L	0.0020	06/13/23 12:40	
EPA 6020	Cobalt	0.00016J	mg/L	0.0010	06/13/23 12:40	
EPA 6020	Lead	0.00040J	mg/L	0.0010	06/13/23 12:40	
EPA 6020	Molybdenum	0.13	mg/L	0.0010	06/13/23 12:40	
EPA 6020	Selenium	0.0012	mg/L	0.0010	06/13/23 12:40	
EPA 6020	Thallium	0.00011J	mg/L	0.0010	06/13/23 12:40	
SM 2540C	Total Dissolved Solids	397	mg/L	10.0	06/07/23 08:33	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	06/15/23 16:09	H3
50346392003	FB-05-060223					
EPA 9056	Chloride	0.16J	mg/L	0.25	06/16/23 17:07	
EPA 6020	Barium	0.0022	mg/L	0.0010	06/13/23 12:44	C0
EPA 6020	Chromium	0.00031J	mg/L	0.0020	06/13/23 12:44	
EPA 6020	Lead	0.000076J	mg/L	0.0010	06/13/23 12:44	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	06/15/23 16:11	H3

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345179

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_WSP Golder

Date: June 19, 2023

General Information:

35 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 736752

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50345528002

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

- MS (Lab ID: 3380285)
 - Chloride
 - Sulfate
- MSD (Lab ID: 3380286)
 - Chloride
 - Sulfate

QC Batch: 736756

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50345662001

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

- MS (Lab ID: 3380301)
 - Sulfate
- MSD (Lab ID: 3380302)
 - Sulfate

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345179

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_WSP Golder

Date: June 19, 2023

QC Batch: 737324

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50345780001

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

- MSD (Lab ID: 3382917)
 - Chloride

QC Batch: 738291

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50346151001

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

- MSD (Lab ID: 3386874)
 - Chloride

QC Batch: 739167

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50346458001

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

- MS (Lab ID: 3390841)
 - Chloride
- MSD (Lab ID: 3390842)
 - Chloride

Additional Comments:

Analyte Comments:

QC Batch: 736752

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3380285)
 - Sulfate
- MSD (Lab ID: 3380286)
 - Sulfate

QC Batch: 736756

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3380301)
 - Sulfate
- MSD (Lab ID: 3380302)
 - Sulfate

QC Batch: 737759

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3384522)
 - Chloride
- MS (Lab ID: 3384524)
 - Chloride
- MSD (Lab ID: 3384523)
 - Chloride

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345179

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_WSP Golder

Date: June 19, 2023

Analyte Comments:

QC Batch: 737759

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 3384525)
- Chloride

QC Batch: 738291

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3386873)
- Chloride
- MSD (Lab ID: 3386874)
- Chloride

QC Batch: 738542

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3388293)
- Chloride
- MSD (Lab ID: 3388294)
- Chloride

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345179

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_WSP Golder

Date: June 19, 2023

General Information:

35 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 735690

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50345183003

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 3375776)
 - Calcium
- MSD (Lab ID: 3375777)
 - Calcium

QC Batch: 736789

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50345453002

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MSD (Lab ID: 3380390)
 - Calcium

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345179

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_WSP Golder

Date: June 19, 2023

QC Batch: 738597

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50346288001,50346299003

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

- MS (Lab ID: 3388828)
 - Calcium

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 3388830)
 - Calcium
- MSD (Lab ID: 3388831)
 - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345179

Method: EPA 6020

Description: 6020 MET ICPMS

Client: NiSource_WSP Golder

Date: June 19, 2023

General Information:

35 samples were analyzed for EPA 6020 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 738629

C0: Result confirmed by second analysis.

- FB-05-060223 (Lab ID: 50346392003)
 - Barium

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345179

Method: EPA 7470

Description: 7470 Mercury

Client: NiSource_WSP Golder

Date: June 19, 2023

General Information:

35 samples were analyzed for EPA 7470 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345179

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_WSP Golder

Date: June 19, 2023

General Information:

35 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 737709

R1: RPD value was outside control limits.

- DUP (Lab ID: 3384353)
- Total Dissolved Solids

Additional Comments:

Analyte Comments:

QC Batch: 735791

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-01-051823 (Lab ID: 50345352004)
- Total Dissolved Solids

QC Batch: 736530

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-02-052423 (Lab ID: 50345792005)
- Total Dissolved Solids

QC Batch: 737921

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-05-060223 (Lab ID: 50346392003)
- Total Dissolved Solids

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345179

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_WSP Golder

Date: June 19, 2023

General Information:

35 samples were analyzed for SM 4500-H+B by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

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

- FB-01-051823 (Lab ID: 50345352004)
- FB-02-052423 (Lab ID: 50345792005)
- FB-05-060223 (Lab ID: 50346392003)
- FD-01-052223 (Lab ID: 50345623004)
- FD-02 (Lab ID: 50345662005)
- FD-05-053123 (Lab ID: 50346175003)
- GAMW-01-051723 (Lab ID: 50345179001)
- GAMW-01B-051723 (Lab ID: 50345179002)
- GAMW-02-051723 (Lab ID: 50345179003)
- GAMW-03-051723 (Lab ID: 50345179004)
- GAMW-04-051723 (Lab ID: 50345179005)
- GAMW-06-051823 (Lab ID: 50345352001)
- GAMW-07-051823 (Lab ID: 50345352002)
- GAMW-08-051823 (Lab ID: 50345352003)
- GAMW-08B-051923 (Lab ID: 50345453001)
- GAMW-10-051923 (Lab ID: 50345453002)
- GAMW-11-052223 (Lab ID: 50345623001)
- GAMW-11B-052223 (Lab ID: 50345623002)
- GAMW-11C-052223 (Lab ID: 50345623003)
- GAMW-12R-052323 (Lab ID: 50345662001)
- GAMW-13-052323 (Lab ID: 50345662002)
- GAMW-14-052323 (Lab ID: 50345662003)
- GAMW-16-052323 (Lab ID: 50345662004)
- GAMW-17-052423 (Lab ID: 50345792003)
- GAMW-17B-052423 (Lab ID: 50345792004)
- GAMW-18-052523 (Lab ID: 50345924001)
- GAMW-19-053123 (Lab ID: 50346175001)
- GAMW-20-053123 (Lab ID: 50346175002)
- GAMW-21-060123 (Lab ID: 50346299001)
- GAMW-22-060123 (Lab ID: 50346299002)
- GAMW-22B-060123 (Lab ID: 50346299003)
- GAMW-23-060223 (Lab ID: 50346392001)
- GAMW-23B-060223 (Lab ID: 50346392002)
- MW-105-052423 (Lab ID: 50345792001)
- MW-112-052423 (Lab ID: 50345792002)

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PROJECT NARRATIVE

Project: Baily Assessment

Pace Project No.: 50345179

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_WSP Golder

Date: June 19, 2023

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-01-051723 **Lab ID: 50345179001** Collected: 05/17/23 09:00 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	3.3	mg/L	0.25	0.067	1		06/01/23 00:20	16887-00-6	
Fluoride	0.17	mg/L	0.050	0.017	1		06/01/23 00:20	16984-48-8	
Sulfate	47.2	mg/L	0.25	0.085	1		06/01/23 00:20	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.12	mg/L	0.10	0.038	1	05/30/23 09:17	05/30/23 22:43	7440-42-8	
Calcium	71.6	mg/L	1.0	0.16	1	05/30/23 09:17	05/30/23 22:43	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	05/30/23 09:17	05/30/23 22:43	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00072J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:10	7440-36-0	
Arsenic	0.00052J	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:10	7440-38-2	
Barium	0.029	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:10	7440-39-3	
Beryllium	0.000058J	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:10	7440-41-7	
Cadmium	0.00064	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:10	7440-43-9	
Chromium	0.00076J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:10	7440-47-3	
Cobalt	0.00027J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:10	7439-92-1	
Molybdenum	0.031	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:10	7439-98-7	
Selenium	0.020	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:10	7782-49-2	
Thallium	0.0024	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:10	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 18:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	302	mg/L	10.0	10.0	1		05/24/23 08:09		
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		06/02/23 13:15		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-01B-051723 **Lab ID: 50345179002** Collected: 05/17/23 10:30 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	12.7	mg/L	2.5	0.67	10		06/01/23 01:14	16887-00-6	
Fluoride	1.7	mg/L	0.050	0.017	1		06/01/23 00:56	16984-48-8	
Sulfate	53.3	mg/L	2.5	0.85	10		06/01/23 01:14	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.35	mg/L	0.10	0.038	1	05/30/23 09:17	05/30/23 22:45	7440-42-8	
Calcium	94.8	mg/L	1.0	0.16	1	05/30/23 09:17	05/30/23 22:45	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	05/30/23 09:17	05/30/23 22:45	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00070J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:14	7440-36-0	
Arsenic	0.00098J	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:14	7440-38-2	
Barium	0.023	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:14	7440-39-3	
Beryllium	0.000032J	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:14	7440-41-7	
Cadmium	0.00062	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:14	7440-43-9	
Chromium	0.00051J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:14	7440-47-3	
Cobalt	0.00054J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:14	7439-92-1	
Molybdenum	0.023	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:14	7439-98-7	
Selenium	0.015	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:14	7782-49-2	
Thallium	0.0030	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 18:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	353	mg/L	10.0	10.0	1		05/24/23 08:10		
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		06/02/23 13:17		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-02-051723		Lab ID: 50345179003		Collected: 05/17/23 11:35	Received: 05/18/23 09:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.5	mg/L	0.25	0.067	1		06/01/23 01:33	16887-00-6	
Fluoride	2.8	mg/L	0.050	0.017	1		06/01/23 01:33	16984-48-8	
Sulfate	63.0	mg/L	2.5	0.85	10		06/01/23 01:51	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.18	mg/L	0.10	0.038	1	05/30/23 09:17	05/30/23 22:47	7440-42-8	
Calcium	82.7	mg/L	1.0	0.16	1	05/30/23 09:17	05/30/23 22:47	7440-70-2	
Lithium	0.021	mg/L	0.0080	0.0062	1	05/30/23 09:17	05/30/23 22:47	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00049J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:18	7440-36-0	
Arsenic	0.00085J	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:18	7440-38-2	
Barium	0.021	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:18	7440-39-3	
Beryllium	0.000027J	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:18	7440-41-7	
Cadmium	0.0015	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:18	7440-43-9	
Chromium	0.00080J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:18	7440-47-3	
Cobalt	0.00017J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:18	7439-92-1	
Molybdenum	0.018	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:18	7439-98-7	
Selenium	0.014	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:18	7782-49-2	
Thallium	0.0027	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 18:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	321	mg/L	10.0	10.0	1		05/24/23 08:10		
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		06/02/23 13:18		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: **GAMW-03-051723** Lab ID: **50345179004** Collected: 05/17/23 13:05 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.9	mg/L	0.25	0.067	1		06/01/23 02:09	16887-00-6	
Fluoride	1.9	mg/L	0.050	0.017	1		06/01/23 02:09	16984-48-8	
Sulfate	67.3	mg/L	2.5	0.85	10		06/01/23 02:27	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.19	mg/L	0.10	0.038	1	05/30/23 09:17	05/30/23 22:49	7440-42-8	
Calcium	87.3	mg/L	1.0	0.16	1	05/30/23 09:17	05/30/23 22:49	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	05/30/23 09:17	05/30/23 22:49	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00041J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:22	7440-36-0	
Arsenic	0.00028J	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:22	7440-38-2	
Barium	0.013	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:22	7440-39-3	
Beryllium	0.000035J	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:22	7440-41-7	
Cadmium	0.00078	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:22	7440-43-9	
Chromium	0.00035J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:22	7440-47-3	
Cobalt	0.00017J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:22	7439-92-1	
Molybdenum	0.013	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:22	7439-98-7	
Selenium	0.013	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:22	7782-49-2	
Thallium	0.0030	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:22	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 18:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	316	mg/L	10.0	10.0	1		05/24/23 08:10		
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		06/02/23 13:33		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-04-051723 **Lab ID: 50345179005** Collected: 05/17/23 14:35 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.6	mg/L	0.25	0.067	1		06/01/23 02:45	16887-00-6	
Fluoride	0.18	mg/L	0.050	0.017	1		06/01/23 02:45	16984-48-8	
Sulfate	219	mg/L	2.5	0.85	10		06/01/23 03:03	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.36	mg/L	0.10	0.038	1	05/30/23 09:17	05/30/23 22:52	7440-42-8	
Calcium	102	mg/L	1.0	0.16	1	05/30/23 09:17	05/30/23 22:52	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	05/30/23 09:17	05/30/23 22:52	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:25	7440-36-0	
Arsenic	0.0037	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:25	7440-38-2	
Barium	0.022	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:25	7440-39-3	
Beryllium	0.000060J	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:25	7440-41-7	
Cadmium	0.00029	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:25	7440-43-9	
Chromium	0.0011J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:25	7440-47-3	
Cobalt	0.00026J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:25	7440-48-4	
Lead	0.00011J	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:25	7439-92-1	
Molybdenum	0.037	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:25	7439-98-7	
Selenium	0.00071J	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 18:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	443	mg/L	10.0	10.0	1		05/24/23 08:21		
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		06/02/23 13:36		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-06-051823		Lab ID: 50345352001		Collected: 05/18/23 10:50	Received: 05/19/23 09:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis								
Chloride	1.9	mg/L	0.25	0.067	1		06/02/23 05:58	16887-00-6		
Fluoride	1.0	mg/L	0.050	0.017	1		06/02/23 05:58	16984-48-8		
Sulfate	35.2	mg/L	0.25	0.085	1		06/02/23 05:58	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Boron	0.10	mg/L	0.10	0.038	1	05/30/23 09:17	05/30/23 23:33	7440-42-8		
Calcium	79.8	mg/L	1.0	0.16	1	05/30/23 09:17	05/30/23 23:33	7440-70-2		
Lithium	ND	mg/L	0.0080	0.0062	1	05/30/23 09:17	05/30/23 23:33	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Antimony	0.0011	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:41	7440-36-0		
Arsenic	0.0016	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:41	7440-38-2		
Barium	0.013	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:41	7440-39-3		
Beryllium	0.000031J	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:41	7440-41-7		
Cadmium	0.00023	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:41	7440-43-9		
Chromium	0.00031J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:41	7440-47-3		
Cobalt	0.00031J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:41	7440-48-4		
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:41	7439-92-1		
Molybdenum	0.029	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:41	7439-98-7		
Selenium	0.012	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:41	7782-49-2		
Thallium	0.0022	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:41	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis								
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 10:54	05/31/23 18:20	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	261	mg/L	10.0	10.0	1		05/25/23 15:00			
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		05/31/23 15:03		H3	

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-07-051823 **Lab ID: 50345352002** Collected: 05/18/23 12:50 Received: 05/19/23 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	8.4	mg/L	0.25	0.067	1		06/02/23 06:34	16887-00-6	
Fluoride	1.9	mg/L	0.050	0.017	1		06/02/23 06:34	16984-48-8	
Sulfate	15.6	mg/L	0.25	0.085	1		06/02/23 06:34	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.10	mg/L	0.10	0.038	1	05/30/23 09:17	05/30/23 23:35	7440-42-8	
Calcium	67.3	mg/L	1.0	0.16	1	05/30/23 09:17	05/30/23 23:35	7440-70-2	
Lithium	0.024	mg/L	0.0080	0.0062	1	05/30/23 09:17	05/30/23 23:35	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00047J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:45	7440-36-0	
Arsenic	0.0029	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:45	7440-38-2	
Barium	0.011	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:45	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:45	7440-41-7	
Cadmium	0.00050	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:45	7440-43-9	
Chromium	0.00050J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:45	7440-47-3	
Cobalt	0.00077J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:45	7439-92-1	
Molybdenum	0.017	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:45	7439-98-7	
Selenium	0.0017	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:45	7782-49-2	
Thallium	0.0091	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 10:54	05/31/23 18:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	233	mg/L	10.0	10.0	1		05/25/23 15:00		
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		05/31/23 15:07		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-08-051823		Lab ID: 50345352003		Collected: 05/18/23 14:20	Received: 05/19/23 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.5	mg/L	0.25	0.067	1		06/02/23 07:10	16887-00-6	
Fluoride	1.1	mg/L	0.050	0.017	1		06/02/23 07:10	16984-48-8	
Sulfate	20.1	mg/L	0.25	0.085	1		06/02/23 07:10	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.20	mg/L	0.10	0.038	1	05/30/23 09:17	05/30/23 23:37	7440-42-8	
Calcium	68.0	mg/L	1.0	0.16	1	05/30/23 09:17	05/30/23 23:37	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	05/30/23 09:17	05/30/23 23:37	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0012	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:49	7440-36-0	
Arsenic	0.0038	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:49	7440-38-2	
Barium	0.019	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:49	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:49	7440-41-7	
Cadmium	0.0011	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:49	7440-43-9	
Chromium	0.0023	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:49	7440-47-3	
Cobalt	0.00011J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:49	7439-92-1	
Molybdenum	0.021	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:49	7439-98-7	
Selenium	0.015	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:49	7782-49-2	
Thallium	0.0017	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 10:54	05/31/23 18:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	218	mg/L	10.0	10.0	1		05/25/23 15:01		
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		05/31/23 15:08		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: FB-01-051823		Lab ID: 50345352004		Collected: 05/18/23 15:00	Received: 05/19/23 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	0.15J	mg/L	0.25	0.067	1		06/02/23 07:46	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		06/02/23 07:46	16984-48-8	
Sulfate	ND	mg/L	0.25	0.085	1		06/02/23 07:46	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	0.038	1	05/30/23 09:17	05/30/23 23:39	7440-42-8	
Calcium	ND	mg/L	1.0	0.16	1	05/30/23 09:17	05/30/23 23:39	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	05/30/23 09:17	05/30/23 23:39	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:53	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:53	7440-38-2	
Barium	0.0026	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:53	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:53	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:53	7440-43-9	
Chromium	ND	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:53	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:53	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:53	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 10:54	05/31/23 18:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		05/25/23 15:01		PL
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		05/31/23 15:08		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-08B-051923		Lab ID: 50345453001		Collected: 05/19/23 10:20		Received: 05/20/23 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	8.4	mg/L	0.25	0.067	1		06/03/23 17:25	16887-00-6	
Fluoride	0.67	mg/L	0.050	0.017	1		06/03/23 17:25	16984-48-8	
Sulfate	24.5	mg/L	0.25	0.085	1		06/03/23 17:25	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.25	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 09:40	7440-42-8	
Calcium	93.8	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 09:40	7440-70-2	
Lithium	0.016J	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 09:40	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00025J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 06:57	7440-36-0	
Arsenic	0.0027	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 06:57	7440-38-2	
Barium	0.020	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 06:57	7440-39-3	
Beryllium	0.000082J	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 06:57	7440-41-7	
Cadmium	0.0060	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 06:57	7440-43-9	
Chromium	0.0017J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 06:57	7440-47-3	
Cobalt	0.0037	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 06:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 06:57	7439-92-1	
Molybdenum	0.028	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:57	7439-98-7	
Selenium	0.0048	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 06:57	7782-49-2	
Thallium	0.010	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 06:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 16:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	355	mg/L	10.0	10.0	1		05/26/23 08:34		
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		06/05/23 11:27		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50345179

Sample: GAMW-10-051923		Lab ID: 50345453002		Collected: 05/19/23 13:20	Received: 05/20/23 09:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.0	mg/L	0.25	0.067	1		06/02/23 23:16	16887-00-6	
Fluoride	3.7	mg/L	0.050	0.017	1		06/02/23 23:16	16984-48-8	
Sulfate	56.2	mg/L	2.5	0.85	10		06/02/23 23:34	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.18	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 09:42	7440-42-8	
Calcium	59.9	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 09:42	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 09:42	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00051J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 07:13	7440-36-0	
Arsenic	0.00059J	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 07:13	7440-38-2	
Barium	0.015	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 07:13	7440-39-3	
Beryllium	0.000030J	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 07:13	7440-41-7	
Cadmium	0.00022	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 07:13	7440-43-9	
Chromium	0.00084J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 07:13	7440-47-3	
Cobalt	0.00012J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 07:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 07:13	7439-92-1	
Molybdenum	0.019	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:13	7439-98-7	
Selenium	0.0074	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 07:13	7782-49-2	
Thallium	0.0027	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 17:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	243	mg/L	10.0	10.0	1		05/26/23 08:34		
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		06/03/23 16:41		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-11-052223 **Lab ID: 50345623001** Collected: 05/22/23 08:55 Received: 05/23/23 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	6.2	mg/L	0.25	0.067	1		06/06/23 05:55	16887-00-6	
Fluoride	1.9	mg/L	0.050	0.017	1		06/06/23 05:55	16984-48-8	
Sulfate	42.8	mg/L	0.25	0.085	1		06/06/23 05:55	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.19	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 09:59	7440-42-8	
Calcium	58.9	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 09:59	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 09:59	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00054J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 07:45	7440-36-0	
Arsenic	0.0014	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 07:45	7440-38-2	
Barium	0.023	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 07:45	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 07:45	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 07:45	7440-43-9	
Chromium	0.0020	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 07:45	7440-47-3	
Cobalt	0.00016J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 07:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 07:45	7439-92-1	
Molybdenum	0.097	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:45	7439-98-7	
Selenium	0.10	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 07:45	7782-49-2	
Thallium	0.000073J	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 10:56	05/31/23 19:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	268	mg/L	10.0	10.0	1		05/26/23 12:30		
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		06/05/23 11:48		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-11B-052223 **Lab ID: 50345623002** Collected: 05/22/23 11:10 Received: 05/23/23 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	743	mg/L	25.0	6.7	100		06/06/23 09:08	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		06/06/23 08:51	16984-48-8	
Sulfate	840	mg/L	25.0	8.5	100		06/06/23 09:08	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.42	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:01	7440-42-8	
Calcium	142	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:01	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:01	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 07:49	7440-36-0	
Arsenic	0.00065J	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 07:49	7440-38-2	
Barium	0.21	mg/L	0.0020	0.00028	2	05/30/23 07:20	06/01/23 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 07:49	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 07:49	7440-43-9	
Chromium	0.00050J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 07:49	7440-47-3	
Cobalt	0.00030J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 07:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 07:49	7439-92-1	
Molybdenum	0.0087	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:49	7439-98-7	
Selenium	0.00060J	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 07:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 10:56	05/31/23 19:26	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	595	mg/L	10.0	10.0	1		05/27/23 08:22		
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		06/05/23 11:49		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-11C-052223		Lab ID: 50345623003		Collected: 05/22/23 12:35	Received: 05/23/23 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.0	mg/L	0.25	0.067	1		06/06/23 09:26	16887-00-6	
Fluoride	0.62	mg/L	0.050	0.017	1		06/06/23 09:26	16984-48-8	
Sulfate	75.9	mg/L	2.5	0.85	10		06/06/23 09:43	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.28	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:04	7440-42-8	
Calcium	82.4	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:04	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:04	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00022J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 07:53	7440-36-0	
Arsenic	0.0025	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 07:53	7440-38-2	
Barium	0.033	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 07:53	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 07:53	7440-41-7	
Cadmium	0.000061J	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 07:53	7440-43-9	
Chromium	0.00035J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 07:53	7440-47-3	
Cobalt	0.00015J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 07:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 07:53	7439-92-1	
Molybdenum	0.011	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:53	7439-98-7	
Selenium	0.23	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 07:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 10:56	05/31/23 19:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	335	mg/L	10.0	10.0	1		05/27/23 08:22		
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		06/05/23 11:51		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: FD-01-052223		Lab ID: 50345623004		Collected: 05/22/23 12:00		Received: 05/23/23 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	75.1	mg/L	2.5	0.67	10		06/06/23 11:48	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		06/06/23 11:30	16984-48-8	
Sulfate	83.8	mg/L	2.5	0.85	10		06/06/23 11:48	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.43	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:06	7440-42-8	
Calcium	147	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:06	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:06	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 07:57	7440-36-0	
Arsenic	0.00064J	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 07:57	7440-38-2	
Barium	0.21	mg/L	0.0020	0.00028	2	05/30/23 07:20	06/01/23 18:16	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 07:57	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 07:57	7440-43-9	
Chromium	0.00046J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 07:57	7440-47-3	
Cobalt	0.00030J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 07:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 07:57	7439-92-1	
Molybdenum	0.0080	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:57	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 07:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 07:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 10:56	05/31/23 19:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	590	mg/L	10.0	10.0	1		05/27/23 08:23		
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		06/05/23 11:53		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-12R-052323		Lab ID: 50345662001		Collected: 05/23/23 09:20	Received: 05/24/23 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	15.9	mg/L	2.5	0.67	10		06/05/23 23:03	16887-00-6	
Fluoride	0.22	mg/L	0.050	0.017	1		06/05/23 22:45	16984-48-8	
Sulfate	477	mg/L	2.5	0.85	10		06/05/23 23:03	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.4	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:09	7440-42-8	
Calcium	214	mg/L	2.0	0.18	2	06/01/23 16:27	06/05/23 11:04	7440-70-2	
Lithium	0.023	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:09	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0011	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 08:12	7440-36-0	
Arsenic	0.0019	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 08:12	7440-38-2	
Barium	0.078	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 08:12	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 08:12	7440-41-7	
Cadmium	0.000090J	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 08:12	7440-43-9	
Chromium	0.00030J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 08:12	7440-47-3	
Cobalt	0.00042J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 08:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 08:12	7439-92-1	
Molybdenum	0.068	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:12	7439-98-7	
Selenium	0.041	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 08:12	7782-49-2	
Thallium	0.00024J	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 18:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1090	mg/L	20.0	20.0	1		05/29/23 08:40		
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		06/05/23 15:38		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-13-052323		Lab ID: 50345662002		Collected: 05/23/23 10:50	Received: 05/24/23 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	8.2	mg/L	0.25	0.067	1		06/06/23 00:32	16887-00-6	
Fluoride	0.14	mg/L	0.050	0.017	1		06/06/23 00:32	16984-48-8	
Sulfate	122	mg/L	2.5	0.85	10		06/06/23 00:50	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.56	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:11	7440-42-8	
Calcium	167	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:11	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:11	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00051J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 08:16	7440-36-0	
Arsenic	0.0010	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 08:16	7440-38-2	
Barium	0.053	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 08:16	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 08:16	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 08:16	7440-43-9	
Chromium	ND	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 08:16	7440-47-3	
Cobalt	0.00072J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 08:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 08:16	7439-92-1	
Molybdenum	0.0091	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:16	7439-98-7	
Selenium	0.017	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 08:16	7782-49-2	
Thallium	0.00041J	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:16	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 18:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	627	mg/L	10.0	10.0	1		05/29/23 08:41		
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		06/05/23 15:42		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-14-052323 **Lab ID: 50345662003** Collected: 05/23/23 12:15 Received: 05/24/23 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	4.7	mg/L	0.25	0.067	1		06/06/23 01:44	16887-00-6	
Fluoride	0.24	mg/L	0.050	0.017	1		06/06/23 01:44	16984-48-8	
Sulfate	108	mg/L	2.5	0.85	10		06/06/23 02:02	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.30	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:14	7440-42-8	
Calcium	88.9	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:14	7440-70-2	
Lithium	0.010J	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:14	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00056J	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 08:21	7440-36-0	
Arsenic	0.0023	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 08:21	7440-38-2	
Barium	0.031	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 08:21	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 08:21	7440-41-7	
Cadmium	0.00030	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 08:21	7440-43-9	
Chromium	0.00033J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 08:21	7440-47-3	
Cobalt	0.00082J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 08:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 08:21	7439-92-1	
Molybdenum	0.014	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:21	7439-98-7	
Selenium	0.020	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 08:21	7782-49-2	
Thallium	0.00075J	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 19:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	368	mg/L	10.0	10.0	1		05/29/23 08:41		
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		06/05/23 15:43		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-16-052323 **Lab ID: 50345662004** Collected: 05/23/23 13:35 Received: 05/24/23 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	3.5	mg/L	0.25	0.067	1		06/06/23 12:12	16887-00-6	
Fluoride	1.2	mg/L	0.050	0.017	1		06/06/23 12:12	16984-48-8	
Sulfate	87.5	mg/L	2.5	0.85	10		06/06/23 12:29	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.64	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:16	7440-42-8	
Calcium	91.4	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:16	7440-70-2	
Lithium	0.082	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:16	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0010	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 08:24	7440-36-0	
Arsenic	0.024	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 08:24	7440-38-2	
Barium	0.013	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 08:24	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 08:24	7440-41-7	
Cadmium	0.0015	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 08:24	7440-43-9	
Chromium	0.0013J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 08:24	7440-47-3	
Cobalt	0.00047J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 08:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 08:24	7439-92-1	
Molybdenum	0.067	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:24	7439-98-7	
Selenium	0.015	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 08:24	7782-49-2	
Thallium	0.0028	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 19:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	378	mg/L	10.0	10.0	1		05/29/23 08:41		
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		06/06/23 11:12		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: FD-02		Lab ID: 50345662005		Collected: 05/23/23 12:00		Received: 05/24/23 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	16.0	mg/L	2.5	0.67	10		06/06/23 04:25	16887-00-6	
Fluoride	0.22	mg/L	0.050	0.017	1		06/06/23 04:07	16984-48-8	
Sulfate	480	mg/L	2.5	0.85	10		06/06/23 04:25	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.4	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:29	7440-42-8	
Calcium	211	mg/L	2.0	0.18	2	06/01/23 16:27	06/05/23 11:06	7440-70-2	
Lithium	0.020J	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:29	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0011	mg/L	0.0010	0.00013	1	05/30/23 07:20	06/01/23 08:28	7440-36-0	
Arsenic	0.0019	mg/L	0.0010	0.00010	1	05/30/23 07:20	06/01/23 08:28	7440-38-2	
Barium	0.077	mg/L	0.0010	0.00014	1	05/30/23 07:20	06/01/23 08:28	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/30/23 07:20	06/01/23 08:28	7440-41-7	
Cadmium	0.000080J	mg/L	0.00020	0.000054	1	05/30/23 07:20	06/01/23 08:28	7440-43-9	
Chromium	0.00045J	mg/L	0.0020	0.00020	1	05/30/23 07:20	06/01/23 08:28	7440-47-3	
Cobalt	0.00043J	mg/L	0.0010	0.000082	1	05/30/23 07:20	06/01/23 08:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/30/23 07:20	06/01/23 08:28	7439-92-1	
Molybdenum	0.068	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:28	7439-98-7	
Selenium	0.042	mg/L	0.0010	0.00044	1	05/30/23 07:20	06/01/23 08:28	7782-49-2	
Thallium	0.00023J	mg/L	0.0010	0.000072	1	05/30/23 07:20	06/01/23 08:28	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	05/31/23 17:05	06/01/23 19:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1070	mg/L	20.0	20.0	1		05/29/23 08:42		
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		06/06/23 11:16		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: MW-105-052423 Lab ID: 50345792001 Collected: 05/24/23 09:40 Received: 05/25/23 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	17.3	mg/L	2.5	0.67	10		06/06/23 15:58	16887-00-6	
Fluoride	0.79	mg/L	0.050	0.017	1		06/06/23 15:40	16984-48-8	
Sulfate	83.3	mg/L	2.5	0.85	10		06/06/23 15:58	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.15	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:31	7440-42-8	
Calcium	77.6	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:31	7440-70-2	
Lithium	0.0097J	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:31	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00091J	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 11:50	7440-36-0	
Arsenic	0.0055	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 11:50	7440-38-2	
Barium	0.029	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 11:50	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 11:50	7440-41-7	
Cadmium	0.00039J	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 11:50	7440-43-9	
Chromium	0.00054J	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 11:50	7440-47-3	
Cobalt	0.0042	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 11:50	7440-48-4	
Lead	0.00035J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 11:50	7439-92-1	
Molybdenum	0.011	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 11:50	7439-98-7	
Selenium	0.020	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 11:50	7782-49-2	
Thallium	0.0029	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 11:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/05/23 10:15	06/05/23 17:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	370	mg/L	20.0	20.0	1		05/31/23 08:14		
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		06/07/23 15:40		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: MW-112-052423 **Lab ID: 50345792002** Collected: 05/24/23 11:15 Received: 05/25/23 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.8	mg/L	0.25	0.067	1		06/06/23 16:16	16887-00-6	
Fluoride	0.91	mg/L	0.050	0.017	1		06/06/23 16:16	16984-48-8	
Sulfate	38.6	mg/L	0.25	0.085	1		06/06/23 16:16	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.097J	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:34	7440-42-8	
Calcium	95.4	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:34	7440-70-2	
Lithium	0.0082J	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:34	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00053J	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 11:54	7440-36-0	
Arsenic	0.0012	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 11:54	7440-38-2	
Barium	0.031	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 11:54	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 11:54	7440-41-7	
Cadmium	0.000019J	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 11:54	7440-43-9	
Chromium	0.00038J	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 11:54	7440-47-3	
Cobalt	0.00026J	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 11:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 11:54	7439-92-1	
Molybdenum	0.067	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 11:54	7439-98-7	
Selenium	0.022	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 11:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 11:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/05/23 10:15	06/05/23 18:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	336	mg/L	10.0	10.0	1		05/31/23 08:15		
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		06/07/23 15:41		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-17-052423 **Lab ID: 50345792003** Collected: 05/24/23 12:50 Received: 05/25/23 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	4.8	mg/L	0.25	0.067	1		06/06/23 16:52	16887-00-6	
Fluoride	2.4	mg/L	0.050	0.017	1		06/06/23 16:52	16984-48-8	
Sulfate	130	mg/L	2.5	0.85	10		06/06/23 17:10	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.43	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:36	7440-42-8	
Calcium	139	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:36	7440-70-2	
Lithium	0.010J	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:36	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0012	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:07	7440-36-0	
Arsenic	0.037	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:07	7440-38-2	
Barium	0.046	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:07	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:07	7440-41-7	
Cadmium	0.000089J	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:07	7440-43-9	
Chromium	0.00024J	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:07	7440-47-3	
Cobalt	0.00061J	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:07	7440-48-4	
Lead	0.000055J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:07	7439-92-1	
Molybdenum	0.34	mg/L	0.0030	0.000093	3	06/06/23 07:04	06/08/23 06:22	7439-98-7	
Selenium	0.049	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 12:07	7782-49-2	
Thallium	0.0019	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/05/23 10:15	06/05/23 18:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	512	mg/L	10.0	10.0	1		05/31/23 08:15		
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		06/07/23 15:41		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-17B-052423 **Lab ID: 50345792004** Collected: 05/24/23 14:30 Received: 05/25/23 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	6.1	mg/L	0.25	0.067	1		06/06/23 17:28	16887-00-6	
Fluoride	1.6	mg/L	0.050	0.017	1		06/06/23 17:28	16984-48-8	
Sulfate	107	mg/L	2.5	0.85	10		06/06/23 17:46	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.56	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:39	7440-42-8	
Calcium	115	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:39	7440-70-2	
Lithium	0.021	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:39	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.000061J	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:10	7440-36-0	
Arsenic	0.0034	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:10	7440-38-2	
Barium	0.035	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:10	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:10	7440-41-7	
Cadmium	0.000023J	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:10	7440-43-9	
Chromium	0.00025J	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:10	7440-47-3	
Cobalt	0.00019J	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:10	7440-48-4	
Lead	0.000043J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:10	7439-92-1	
Molybdenum	0.14	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 12:10	7439-98-7	
Selenium	0.00026J	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 12:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:10	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/05/23 10:15	06/05/23 18:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	446	mg/L	10.0	10.0	1		05/31/23 08:15		
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		06/07/23 15:43		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: FB-02-052423		Lab ID: 50345792005		Collected: 05/24/23 14:45	Received: 05/25/23 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	0.11J	mg/L	0.25	0.067	1		06/06/23 18:41	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		06/06/23 18:41	16984-48-8	
Sulfate	ND	mg/L	0.25	0.085	1		06/06/23 18:41	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:41	7440-42-8	
Calcium	0.16J	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:41	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:41	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:13	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:13	7440-38-2	
Barium	0.00088J	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:13	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:13	7440-41-7	
Cadmium	0.000015J	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:13	7440-43-9	
Chromium	0.00025J	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:13	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:13	7440-48-4	
Lead	0.000052J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:13	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 12:13	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 12:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/05/23 10:15	06/05/23 18:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		05/31/23 08:15		PL
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		06/07/23 15:43		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-18-052523		Lab ID: 50345924001		Collected: 05/25/23 11:35		Received: 05/26/23 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	3.5	mg/L	0.25	0.067	1		06/08/23 08:08	16887-00-6	
Fluoride	1.7	mg/L	0.050	0.017	1		06/08/23 08:08	16984-48-8	
Sulfate	35.2	mg/L	0.25	0.085	1		06/08/23 08:08	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.14	mg/L	0.10	0.061	1	06/01/23 16:27	06/05/23 10:43	7440-42-8	
Calcium	83.6	mg/L	1.0	0.088	1	06/01/23 16:27	06/05/23 10:43	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/01/23 16:27	06/05/23 10:43	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0013	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:17	7440-36-0	
Arsenic	0.0012	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:17	7440-38-2	
Barium	0.027	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:17	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:17	7440-41-7	
Cadmium	0.000084J	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:17	7440-43-9	
Chromium	0.00049J	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:17	7440-47-3	
Cobalt	0.00019J	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:17	7440-48-4	
Lead	0.000036J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:17	7439-92-1	
Molybdenum	0.027	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 12:17	7439-98-7	
Selenium	0.010	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 12:17	7782-49-2	
Thallium	0.0027	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.00012	1	06/06/23 18:35	06/07/23 09:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	309	mg/L	10.0	10.0	1		06/01/23 08:28		
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		06/12/23 06:49		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50345179

Sample: GAMW-19-053123		Lab ID: 50346175001		Collected: 05/31/23 12:35	Received: 06/01/23 09:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	13.0	mg/L	0.25	0.067	1		06/13/23 17:58	16887-00-6	
Fluoride	0.53	mg/L	0.050	0.017	1		06/13/23 17:58	16984-48-8	
Sulfate	46.5	mg/L	0.25	0.085	1		06/13/23 17:58	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	0.061	1	06/10/23 18:25	06/12/23 14:53	7440-42-8	
Calcium	60.4	mg/L	1.0	0.088	1	06/10/23 18:25	06/12/23 14:53	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/10/23 18:25	06/12/23 14:53	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00037J	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:30	7440-36-0	
Arsenic	0.00062J	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:30	7440-38-2	
Barium	0.025	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:30	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:30	7440-41-7	
Cadmium	0.000020J	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:30	7440-43-9	
Chromium	0.00043J	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:30	7440-47-3	
Cobalt	0.00023J	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:30	7440-48-4	
Lead	0.000052J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:30	7439-92-1	
Molybdenum	0.039	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 12:30	7439-98-7	
Selenium	0.00035J	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 12:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/23 10:10	06/12/23 20:56	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	240	mg/L	10.0	10.0	1		06/05/23 16:04		
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		06/11/23 22:28		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50345179

Sample: GAMW-20-053123 **Lab ID: 50346175002** Collected: 05/31/23 14:40 Received: 06/01/23 09:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.2	mg/L	0.25	0.067	1		06/13/23 19:25	16887-00-6	
Fluoride	0.056J	mg/L	0.050	0.017	1		06/13/23 19:25	16984-48-8	
Sulfate	51.1	mg/L	2.5	0.85	10		06/13/23 18:33	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	0.061	1	06/10/23 18:25	06/12/23 14:55	7440-42-8	
Calcium	19.4	mg/L	1.0	0.088	1	06/10/23 18:25	06/12/23 14:55	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/10/23 18:25	06/12/23 14:55	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00019J	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:34	7440-36-0	
Arsenic	0.0011	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:34	7440-38-2	
Barium	0.0052	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:34	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:34	7440-41-7	
Cadmium	0.000043J	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:34	7440-43-9	
Chromium	0.0017J	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:34	7440-47-3	
Cobalt	0.00026J	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:34	7440-48-4	
Lead	0.00033J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:34	7439-92-1	
Molybdenum	0.027	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 12:34	7439-98-7	
Selenium	0.00033J	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 12:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:34	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/23 10:10	06/12/23 20:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	133	mg/L	10.0	10.0	1		06/05/23 16:04		
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		06/11/23 22:29		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: FD-05-053123 **Lab ID: 50346175003** Collected: 05/31/23 12:00 Received: 06/01/23 09:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.2	mg/L	0.25	0.067	1		06/13/23 21:43	16887-00-6	
Fluoride	0.057J	mg/L	0.050	0.017	1		06/13/23 21:43	16984-48-8	
Sulfate	51.4	mg/L	2.5	0.85	10		06/13/23 22:01	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	0.061	1	06/10/23 18:25	06/12/23 14:57	7440-42-8	
Calcium	19.8	mg/L	1.0	0.088	1	06/10/23 18:25	06/12/23 14:57	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/10/23 18:25	06/12/23 14:57	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00021J	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:37	7440-36-0	
Arsenic	0.0011	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:37	7440-38-2	
Barium	0.0052	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:37	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:37	7440-41-7	
Cadmium	0.000053J	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:37	7440-43-9	
Chromium	0.0018J	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:37	7440-47-3	
Cobalt	0.00027J	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:37	7440-48-4	
Lead	0.00037J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:37	7439-92-1	
Molybdenum	0.027	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 12:37	7439-98-7	
Selenium	0.00034J	mg/L	0.0010	0.000023	1	06/06/23 07:04	06/07/23 12:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/23 10:10	06/12/23 21:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	138	mg/L	10.0	10.0	1		06/05/23 16:05		
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		06/11/23 22:27		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50345179

Sample: GAMW-21-060123 **Lab ID: 50346299001** Collected: 06/01/23 11:50 Received: 06/02/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	19.8	mg/L	2.5	0.67	10		06/14/23 00:32	16887-00-6	
Fluoride	0.44	mg/L	0.050	0.017	1		06/14/23 00:14	16984-48-8	
Sulfate	46.0	mg/L	2.5	0.85	10		06/14/23 00:32	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.084J	mg/L	0.10	0.061	1	06/12/23 09:08	06/15/23 15:27	7440-42-8	
Calcium	31.6	mg/L	1.0	0.088	1	06/12/23 09:08	06/15/23 15:27	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/12/23 09:08	06/15/23 15:27	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00036J	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:40	7440-36-0	
Arsenic	0.0064	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:40	7440-38-2	
Barium	0.014	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:40	7440-39-3	
Beryllium	0.000047J	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:40	7440-41-7	
Cadmium	0.00038	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:40	7440-43-9	
Chromium	0.0030	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:40	7440-47-3	
Cobalt	0.00069J	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:40	7440-48-4	
Lead	0.00040J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:40	7439-92-1	
Molybdenum	3.3	mg/L	0.025	0.00078	25	06/06/23 07:04	06/08/23 06:25	7439-98-7	
Selenium	0.00083J	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 12:40	7782-49-2	
Thallium	0.000044J	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/14/23 10:31	06/14/23 17:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	230	mg/L	10.0	10.0	1		06/06/23 09:21		
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		06/14/23 15:08		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-22-060123 **Lab ID: 50346299002** Collected: 06/01/23 14:05 Received: 06/02/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	22.4	mg/L	2.5	0.67	10		06/13/23 11:41	16887-00-6	
Fluoride	0.89	mg/L	0.050	0.017	1		06/13/23 11:23	16984-48-8	
Sulfate	36.7	mg/L	0.25	0.085	1		06/13/23 11:23	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.095J	mg/L	0.10	0.061	1	06/12/23 09:08	06/15/23 15:29	7440-42-8	
Calcium	37.4	mg/L	1.0	0.088	1	06/12/23 09:08	06/15/23 15:29	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/12/23 09:08	06/15/23 15:29	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00046J	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:54	7440-36-0	
Arsenic	0.0046	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:54	7440-38-2	
Barium	0.0077	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:54	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:54	7440-41-7	
Cadmium	0.00028	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:54	7440-43-9	
Chromium	0.0065	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:54	7440-47-3	
Cobalt	0.000089J	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:54	7440-48-4	
Lead	0.00016J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:54	7439-92-1	
Molybdenum	0.0055	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 12:54	7439-98-7	
Selenium	0.0029	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 12:54	7782-49-2	
Thallium	0.0038	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/14/23 10:31	06/14/23 17:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	197	mg/L	10.0	10.0	1		06/06/23 09:22		
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		06/14/23 15:09		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-22B-060123		Lab ID: 50346299003		Collected: 06/01/23 15:20		Received: 06/02/23 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	114	mg/L	2.5	0.67	10		06/13/23 12:17	16887-00-6	
Fluoride	1.2	mg/L	0.050	0.017	1		06/13/23 11:59	16984-48-8	
Sulfate	54.7	mg/L	2.5	0.85	10		06/13/23 12:17	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.19	mg/L	0.10	0.061	1	06/12/23 09:08	06/15/23 15:32	7440-42-8	
Calcium	94.7	mg/L	1.0	0.088	1	06/12/23 09:08	06/15/23 15:32	7440-70-2	
Lithium	0.011J	mg/L	0.0080	0.0062	1	06/12/23 09:08	06/15/23 15:32	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0011	mg/L	0.0010	0.000044	1	06/06/23 07:04	06/07/23 12:57	7440-36-0	
Arsenic	0.00039J	mg/L	0.0010	0.000064	1	06/06/23 07:04	06/07/23 12:57	7440-38-2	
Barium	0.037	mg/L	0.0010	0.000067	1	06/06/23 07:04	06/07/23 12:57	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/06/23 07:04	06/07/23 12:57	7440-41-7	
Cadmium	0.013	mg/L	0.00020	0.000011	1	06/06/23 07:04	06/07/23 12:57	7440-43-9	
Chromium	0.0024	mg/L	0.0020	0.00015	1	06/06/23 07:04	06/07/23 12:57	7440-47-3	
Cobalt	0.0016	mg/L	0.0010	0.000024	1	06/06/23 07:04	06/07/23 12:57	7440-48-4	
Lead	0.000051J	mg/L	0.0010	0.000018	1	06/06/23 07:04	06/07/23 12:57	7439-92-1	
Molybdenum	0.029	mg/L	0.0010	0.000031	1	06/06/23 07:04	06/07/23 12:57	7439-98-7	
Selenium	0.0048	mg/L	0.0010	0.00023	1	06/06/23 07:04	06/07/23 12:57	7782-49-2	
Thallium	0.015	mg/L	0.0010	0.000042	1	06/06/23 07:04	06/07/23 12:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/14/23 10:31	06/14/23 17:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	487	mg/L	10.0	10.0	1		06/07/23 08:30		
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		06/14/23 15:11		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-23-060223		Lab ID: 50346392001		Collected: 06/02/23 10:25	Received: 06/03/23 08:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	21.7	mg/L	2.5	0.67	10		06/16/23 16:33	16887-00-6	
Fluoride	1.8	mg/L	0.050	0.017	1		06/15/23 03:52	16984-48-8	
Sulfate	53.5	mg/L	2.5	0.85	10		06/16/23 16:33	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.23	mg/L	0.10	0.061	1	06/12/23 09:08	06/15/23 15:47	7440-42-8	
Calcium	14.4	mg/L	1.0	0.088	1	06/12/23 09:08	06/15/23 15:47	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/12/23 09:08	06/15/23 15:47	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0013	mg/L	0.0010	0.000080	1	06/11/23 19:15	06/13/23 10:25	7440-36-0	
Arsenic	0.0033	mg/L	0.0010	0.00012	1	06/11/23 19:15	06/13/23 10:25	7440-38-2	
Barium	0.013	mg/L	0.0010	0.000065	1	06/11/23 19:15	06/13/23 10:25	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/11/23 19:15	06/13/23 10:25	7440-41-7	
Cadmium	0.00010J	mg/L	0.00020	0.000016	1	06/11/23 19:15	06/13/23 10:25	7440-43-9	
Chromium	0.0088	mg/L	0.0020	0.00018	1	06/11/23 19:15	06/13/23 10:25	7440-47-3	
Cobalt	0.00053J	mg/L	0.0010	0.000071	1	06/11/23 19:15	06/13/23 10:25	7440-48-4	
Lead	0.00016J	mg/L	0.0010	0.000068	1	06/11/23 19:15	06/13/23 10:25	7439-92-1	
Molybdenum	0.045	mg/L	0.0010	0.000074	1	06/11/23 19:15	06/13/23 10:25	7439-98-7	
Selenium	0.011	mg/L	0.0010	0.00019	1	06/11/23 19:15	06/13/23 10:25	7782-49-2	
Thallium	0.0033	mg/L	0.0010	0.000060	1	06/11/23 19:15	06/13/23 10:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/14/23 10:31	06/14/23 18:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	346	mg/L	10.0	10.0	1		06/07/23 08:33		
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		06/15/23 16:08		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: GAMW-23B-060223		Lab ID: 50346392002		Collected: 06/02/23 11:40	Received: 06/03/23 08:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	23.4	mg/L	2.5	0.67	10		06/16/23 16:50	16887-00-6	
Fluoride	1.4	mg/L	0.050	0.017	1		06/15/23 04:28	16984-48-8	
Sulfate	79.3	mg/L	2.5	0.85	10		06/16/23 16:50	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.45	mg/L	0.10	0.061	1	06/12/23 09:08	06/15/23 15:49	7440-42-8	
Calcium	84.6	mg/L	1.0	0.088	1	06/12/23 09:08	06/15/23 15:49	7440-70-2	
Lithium	0.011J	mg/L	0.0080	0.0062	1	06/12/23 09:08	06/15/23 15:49	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00052J	mg/L	0.0010	0.000080	1	06/11/23 19:15	06/13/23 12:40	7440-36-0	
Arsenic	0.0079	mg/L	0.0010	0.00012	1	06/11/23 19:15	06/13/23 12:40	7440-38-2	
Barium	0.044	mg/L	0.0010	0.000065	1	06/11/23 19:15	06/13/23 12:40	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	06/11/23 19:15	06/15/23 05:44	7440-41-7	
Cadmium	0.000034J	mg/L	0.00020	0.000016	1	06/11/23 19:15	06/13/23 12:40	7440-43-9	
Chromium	0.00035J	mg/L	0.0020	0.00018	1	06/11/23 19:15	06/13/23 12:40	7440-47-3	
Cobalt	0.00016J	mg/L	0.0010	0.000071	1	06/11/23 19:15	06/13/23 12:40	7440-48-4	
Lead	0.00040J	mg/L	0.0010	0.000068	1	06/11/23 19:15	06/13/23 12:40	7439-92-1	
Molybdenum	0.13	mg/L	0.0010	0.000074	1	06/11/23 19:15	06/13/23 12:40	7439-98-7	
Selenium	0.0012	mg/L	0.0010	0.00019	1	06/11/23 19:15	06/13/23 12:40	7782-49-2	
Thallium	0.00011J	mg/L	0.0010	0.000060	1	06/11/23 19:15	06/13/23 12:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/14/23 10:31	06/14/23 18:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	397	mg/L	10.0	10.0	1		06/07/23 08:33		
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		06/15/23 16:09		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50345179

Sample: FB-05-060223		Lab ID: 50346392003		Collected: 06/02/23 11:55	Received: 06/03/23 08:55	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	0.16J	mg/L	0.25	0.067	1		06/16/23 17:07	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		06/16/23 17:07	16984-48-8	
Sulfate	ND	mg/L	0.25	0.085	1		06/16/23 17:07	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	0.061	1	06/12/23 09:08	06/15/23 15:57	7440-42-8	
Calcium	ND	mg/L	1.0	0.088	1	06/12/23 09:08	06/15/23 15:57	7440-70-2	
Lithium	ND	mg/L	0.0080	0.0062	1	06/12/23 09:08	06/15/23 15:57	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.000080	1	06/11/23 19:15	06/13/23 12:44	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00012	1	06/11/23 19:15	06/13/23 12:44	7440-38-2	
Barium	0.0022	mg/L	0.0010	0.000065	1	06/11/23 19:15	06/13/23 12:44	7440-39-3	C0
Beryllium	ND	mg/L	0.00020	0.000026	1	06/11/23 19:15	06/15/23 05:48	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	06/11/23 19:15	06/13/23 12:44	7440-43-9	
Chromium	0.00031J	mg/L	0.0020	0.00018	1	06/11/23 19:15	06/13/23 12:44	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000071	1	06/11/23 19:15	06/13/23 12:44	7440-48-4	
Lead	0.000076J	mg/L	0.0010	0.000068	1	06/11/23 19:15	06/13/23 12:44	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000074	1	06/11/23 19:15	06/13/23 12:44	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	06/11/23 19:15	06/13/23 12:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	06/11/23 19:15	06/13/23 12:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	06/14/23 10:31	06/14/23 18:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		06/07/23 08:34		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		06/15/23 16:11		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 735156

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345179001, 50345179002, 50345179003, 50345179004, 50345179005

METHOD BLANK: 3373629

Matrix: Water

Associated Lab Samples: 50345179001, 50345179002, 50345179003, 50345179004, 50345179005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/01/23 17:11	
Fluoride	mg/L	ND	0.050	0.017	06/01/23 17:11	
Sulfate	mg/L	ND	0.25	0.085	06/01/23 17:11	

LABORATORY CONTROL SAMPLE: 3373630

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	0.87	87	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3373631 3373632

Parameter	Units	50345193004 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	25	25	37.0	37.1	97	97	80-120	0	15	
Fluoride	mg/L	ND	1	1	1.0	1.0	98	96	80-120	2	15	
Sulfate	mg/L	61.1	50	50	106	108	89	94	80-120	2	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 736745 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50345352001, 50345352002, 50345352003, 50345352004

METHOD BLANK: 3380256 Matrix: Water
 Associated Lab Samples: 50345352001, 50345352002, 50345352003, 50345352004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/01/23 14:06	
Fluoride	mg/L	ND	0.050	0.017	06/01/23 14:06	
Sulfate	mg/L	ND	0.25	0.085	06/01/23 14:06	

LABORATORY CONTROL SAMPLE: 3380257

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	1.0	100	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3380258 3380259

Parameter	Units	50345372001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	85600 ug/L	25	25	110	110	96	96	80-120	0	15	
Fluoride	mg/L	<100 ug/L	1	1	0.88	0.88	87	87	80-120	0	15	
Sulfate	mg/L	<2000 ug/L	5	5	4.5	4.5	88	88	80-120	0	15	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 736748

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345453001

METHOD BLANK: 3380264

Matrix: Water

Associated Lab Samples: 50345453001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/02/23 22:40	
Fluoride	mg/L	ND	0.050	0.017	06/02/23 22:40	
Sulfate	mg/L	ND	0.25	0.085	06/02/23 22:40	

LABORATORY CONTROL SAMPLE: 3380265

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: 3380266 3380267

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50345371015 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	43.1	25	25	66.3	66.4	93	93	80-120	0	15		
Fluoride	mg/L	ND	1	1	0.88	0.88	85	85	80-120	0	15		
Sulfate	mg/L	109	50	50	155	155	92	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: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 736750

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345453002

METHOD BLANK: 3380272

Matrix: Water

Associated Lab Samples: 50345453002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/02/23 15:04	
Fluoride	mg/L	ND	0.050	0.017	06/02/23 15:04	
Sulfate	mg/L	ND	0.25	0.085	06/02/23 15:04	

LABORATORY CONTROL SAMPLE: 3380273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	102	80-120	
Fluoride	mg/L	1	1.0	100	80-120	
Sulfate	mg/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3380274 3380275

Parameter	Units	50345453002		3380274		3380275		% 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	2.0	2.5	2.5	2.5	4.3	4.5	93	102	80-120	5	15	
Fluoride	mg/L	3.7	1	1	1	4.7	4.7	101	105	80-120	1	15	
Sulfate	mg/L	56.2	50	50	50	99.4	102	86	92	80-120	3	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3380276 3380277

Parameter	Units	50345439001		3380276		3380277		% 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	24.4	25	25	25	49.0	48.7	98	97	80-120	1	15	
Fluoride	mg/L	0.23	1	1	1	1.3	1.3	102	102	80-120	0	15	
Sulfate	mg/L	81.9	50	50	50	125	124	87	83	80-120	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 736752

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345623001, 50345623002, 50345623003, 50345623004

METHOD BLANK: 3380283

Matrix: Water

Associated Lab Samples: 50345623001, 50345623002, 50345623003, 50345623004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/05/23 23:53	
Fluoride	mg/L	ND	0.050	0.017	06/05/23 23:53	
Sulfate	mg/L	ND	0.25	0.085	06/05/23 23:53	

LABORATORY CONTROL SAMPLE: 3380284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.2	88	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.5	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3380285 3380286

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50345528002 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	168	25	25	186	183	69	60	80-120	1	15	M0	
Fluoride	mg/L	0.48	1	1	1.4	1.4	92	94	80-120	2	15		
Sulfate	mg/L	466	50	50	502	501	72	70	80-120	0	15	E,M0	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 736756 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50345662001, 50345662002, 50345662003, 50345662004, 50345662005

METHOD BLANK: 3380299 Matrix: Water
 Associated Lab Samples: 50345662001, 50345662002, 50345662003, 50345662004, 50345662005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/05/23 22:09	
Fluoride	mg/L	ND	0.050	0.017	06/05/23 22:09	
Sulfate	mg/L	ND	0.25	0.085	06/05/23 22:09	

LABORATORY CONTROL SAMPLE: 3380300

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	1.0	103	80-120	
Sulfate	mg/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3380301 3380302

Parameter	Units	50345662001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.9	25	25	39.9	39.8	96	96	80-120	0	15	
Fluoride	mg/L	0.22	1	1	1.2	1.2	101	101	80-120	0	15	
Sulfate	mg/L	477	50	50	515	514	76	74	80-120	0	15	E,M0

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 737324 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50345792001, 50345792002, 50345792003, 50345792004, 50345792005

METHOD BLANK: 3382914 Matrix: Water
 Associated Lab Samples: 50345792001, 50345792002, 50345792003, 50345792004, 50345792005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/06/23 11:26	
Fluoride	mg/L	ND	0.050	0.017	06/06/23 11:26	
Sulfate	mg/L	ND	0.25	0.085	06/06/23 11:26	

LABORATORY CONTROL SAMPLE: 3382915

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	0.96	96	80-120	
Sulfate	mg/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3382916 3382917

Parameter	Units	50345780001		3382916		3382917		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	9.2	2.5	2.5	11.7	11.2	100	79	80-120	5	15	M0	
Fluoride	mg/L	0.21	1	1	1.2	1.1	96	90	80-120	5	15		
Sulfate	mg/L	14.1	5	5	19.3	18.9	105	97	80-120	2	15		

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 737759

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345924001

METHOD BLANK: 3384520

Matrix: Water

Associated Lab Samples: 50345924001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/08/23 21:21	
Fluoride	mg/L	ND	0.050	0.017	06/08/23 21:21	
Sulfate	mg/L	ND	0.25	0.085	06/08/23 21:21	

LABORATORY CONTROL SAMPLE: 3384521

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	1.0	103	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3384522 3384523

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50345920002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	108	25	25	133	133	101	101	80-120	0	15	E	
Fluoride	mg/L	0.22	1	1	1.2	1.2	102	101	80-120	0	15		
Sulfate	mg/L	48.2	50	50	88.3	88.3	80	80	80-120	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3384524 3384525

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50345940002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	10.6	2.5	2.5	13.2	13.2	103	103	80-120	0	15	E	
Fluoride	mg/L	0.18	1	1	1.2	1.2	102	101	80-120	1	15		
Sulfate	mg/L	ND	5	5	4.8	4.8	92	91	80-120	0	15		

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 738291

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50346175001, 50346175002, 50346175003

METHOD BLANK: 3386871

Matrix: Water

Associated Lab Samples: 50346175001, 50346175002, 50346175003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/13/23 12:30	
Fluoride	mg/L	ND	0.050	0.017	06/13/23 12:30	
Sulfate	mg/L	ND	0.25	0.085	06/13/23 12:30	

LABORATORY CONTROL SAMPLE: 3386872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	90	80-120	
Fluoride	mg/L	1	0.94	94	80-120	
Sulfate	mg/L	5	4.4	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3386873 3386874

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50346151001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	23.0	2.5	2.5	25.2	26.7	89	146	80-120	6	15	E,M0	
Fluoride	mg/L	ND	1	1	0.92	0.93	90	91	80-120	1	15		
Sulfate	mg/L	891	500	500	1340	1340	89	89	80-120	0	15		

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch:	738542	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50346299001, 50346299002, 50346299003

METHOD BLANK: 3388291 Matrix: Water

Associated Lab Samples: 50346299001, 50346299002, 50346299003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/13/23 10:18	
Fluoride	mg/L	ND	0.050	0.017	06/13/23 10:18	
Sulfate	mg/L	ND	0.25	0.085	06/13/23 10:18	

LABORATORY CONTROL SAMPLE: 3388292

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	0.99	99	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388293 3388294

Parameter	Units	50346299003		50346299004		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	114	25	25	136	136	91	91	80-120	0	15	E	
Fluoride	mg/L	1.2	1	1	2.2	2.2	103	103	80-120	0	15		
Sulfate	mg/L	54.7	50	50	99.1	99.0	89	88	80-120	0	15		

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 739167 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50346392001, 50346392002, 50346392003

METHOD BLANK: 3390837 Matrix: Water

Associated Lab Samples: 50346392001, 50346392002, 50346392003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	06/15/23 15:51	
Fluoride	mg/L	ND	0.050	0.017	06/15/23 15:51	
Sulfate	mg/L	ND	0.25	0.085	06/15/23 15:51	

LABORATORY CONTROL SAMPLE: 3390838

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	0.96	96	80-120	
Sulfate	mg/L	5	4.7	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3390841 3390842

Parameter	Units	50346458001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L		250	250	361	360	75	74	80-120	0	15	M0
Fluoride	mg/L		1	1	0.97	0.98	89	90	80-120	1	15	
Sulfate	mg/L		500	500	597	592	89	88	80-120	1	15	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736447

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345352001, 50345352002, 50345352003, 50345352004

METHOD BLANK: 3379330

Matrix: Water

Associated Lab Samples: 50345352001, 50345352002, 50345352003, 50345352004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	05/31/23 17:21	

LABORATORY CONTROL SAMPLE: 3379331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0048	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379332 3379333

Parameter	Units	50345290001		3379332		3379333		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury	mg/L	ND	0.005	0.005	0.0050	0.0053	101	106	75-125	5	20

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736450

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345623001, 50345623002, 50345623003, 50345623004

METHOD BLANK: 3379340

Matrix: Water

Associated Lab Samples: 50345623001, 50345623002, 50345623003, 50345623004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	05/31/23 18:29	

LABORATORY CONTROL SAMPLE: 3379341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0052	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379342 3379343

Parameter	Units	50345528002		50345528002		50345528002		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Mercury	mg/L	ND	0.005	0.005	0.0051	0.0053	103	106	75-125	3	20

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736578

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345453001, 50345453002

METHOD BLANK: 3379756

Matrix: Water

Associated Lab Samples: 50345453001, 50345453002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	06/01/23 16:40	

LABORATORY CONTROL SAMPLE: 3379757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0051	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379758 3379759

Parameter	Units	50345453002		3379759		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.005	0.0052	0.0051	103	103	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379760 3379761

Parameter	Units	50345615003		3379761		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.005	0.0043	0.0042	85	84	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch:	736719	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345179001, 50345179002, 50345179003, 50345179004, 50345179005, 50345662001, 50345662002, 50345662003, 50345662004, 50345662005

METHOD BLANK: 3380154 Matrix: Water

Associated Lab Samples: 50345179001, 50345179002, 50345179003, 50345179004, 50345179005, 50345662001, 50345662002, 50345662003, 50345662004, 50345662005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	06/01/23 17:59	

LABORATORY CONTROL SAMPLE: 3380155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0053	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3380156 3380157

Parameter	Units	50345179003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.005	0.005	0.0053	0.0051	106	102	75-125	4	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 737254

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345792001, 50345792002, 50345792003, 50345792004, 50345792005

METHOD BLANK: 3382454

Matrix: Water

Associated Lab Samples: 50345792001, 50345792002, 50345792003, 50345792004, 50345792005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	06/05/23 17:30	

LABORATORY CONTROL SAMPLE: 3382455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0048	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3382456 3382457

Parameter	Units	50345361002		3382457		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.005	0.005	0.0046	0.0046	93	93	75-125	0	20

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 737608

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345924001

METHOD BLANK: 3383999

Matrix: Water

Associated Lab Samples: 50345924001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	06/07/23 09:05	

LABORATORY CONTROL SAMPLE: 3384000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0045	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3384001 3384002

Parameter	Units	50345920002		3384001		3384002		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury	mg/L	ND	0.005	0.005	0.0045	0.0044	91	88	75-125	3	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch:	738462	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50346175001, 50346175002, 50346175003

METHOD BLANK: 3387888 Matrix: Water

Associated Lab Samples: 50346175001, 50346175002, 50346175003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	06/12/23 20:44	

LABORATORY CONTROL SAMPLE: 3387889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0049	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387890 3387891

Parameter	Units	50346230002		3387891		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.005	0.005	0.0048	0.0047	96	94	75-125	2	20

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch:	738465	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50346299001, 50346299002, 50346299003, 50346392001, 50346392002, 50346392003

METHOD BLANK: 3387896 Matrix: Water

Associated Lab Samples: 50346299001, 50346299002, 50346299003, 50346392001, 50346392002, 50346392003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	06/14/23 17:13	

LABORATORY CONTROL SAMPLE: 3387897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0049	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387898 3387899

Parameter	Units	50346299003		3387899		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.005	0.005	0.0050	0.0049	101	98	75-125	3	20

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch:	735690	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345179001, 50345179002, 50345179003, 50345179004, 50345179005, 50345352001, 50345352002, 50345352003, 50345352004

METHOD BLANK: 3375774 Matrix: Water

Associated Lab Samples: 50345179001, 50345179002, 50345179003, 50345179004, 50345179005, 50345352001, 50345352002, 50345352003, 50345352004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.038	05/30/23 22:41	
Calcium	mg/L	ND	1.0	0.16	05/30/23 22:41	
Lithium	mg/L	ND	0.0080	0.0062	05/30/23 22:41	

LABORATORY CONTROL SAMPLE: 3375775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.94	94	80-120	
Calcium	mg/L	5	4.8	97	80-120	
Lithium	mg/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3375776 3375777

Parameter	Units	50345183003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.19	1	1	1.2	1.2	99	98	75-125	1	20	
Calcium	mg/L	84.4	5	5	87.8	87.2	67	54	75-125	1	20	P6
Lithium	mg/L	0.020	1	1	1.0	1.0	103	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch:	736789	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50345453001, 50345453002, 50345623001, 50345623002, 50345623003, 50345623004, 50345662001, 50345662002, 50345662003, 50345662004, 50345662005, 50345792001, 50345792002, 50345792003, 50345792004, 50345792005, 50345924001		

METHOD BLANK:	3380387	Matrix:	Water
Associated Lab Samples:	50345453001, 50345453002, 50345623001, 50345623002, 50345623003, 50345623004, 50345662001, 50345662002, 50345662003, 50345662004, 50345662005, 50345792001, 50345792002, 50345792003, 50345792004, 50345792005, 50345924001		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.061	06/05/23 09:37	
Calcium	mg/L	ND	1.0	0.088	06/05/23 09:37	
Lithium	mg/L	ND	0.0080	0.0062	06/05/23 09:37	

LABORATORY CONTROL SAMPLE:	3380388					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	5	5.0	100	80-120	
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3380389			3380390								
Parameter	Units	50345453002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.18	1	1	1.2	1.2	100	99	75-125	0	20	
Calcium	mg/L	59.9	5	5	66.0	66.6	123	135	75-125	1	20	P6
Lithium	mg/L	ND	1	1	1.0	1.0	103	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 737092

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50346175001, 50346175002, 50346175003

METHOD BLANK: 3381861

Matrix: Water

Associated Lab Samples: 50346175001, 50346175002, 50346175003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.061	06/12/23 14:32	
Calcium	mg/L	ND	1.0	0.088	06/12/23 14:32	
Lithium	mg/L	ND	0.0080	0.0062	06/12/23 14:32	

LABORATORY CONTROL SAMPLE: 3381862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.92	92	80-120	
Calcium	mg/L	10	9.6	96	80-120	
Lithium	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3381863 3381864

Parameter	Units	50346171001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	0.96	0.99	91	95	75-125	4	20	
Calcium	mg/L	59.3	10	10	67.5	68.3	82	90	75-125	1	20	
Lithium	mg/L	ND	1	1	1.0	1.0	100	102	75-125	3	20	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch:	738597	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50346299001, 50346299002, 50346299003, 50346392001, 50346392002, 50346392003		

METHOD BLANK:	3388826	Matrix:	Water
Associated Lab Samples:	50346299001, 50346299002, 50346299003, 50346392001, 50346392002, 50346392003		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.061	06/15/23 14:59	
Calcium	mg/L	ND	1.0	0.088	06/15/23 14:59	
Lithium	mg/L	ND	0.0080	0.0062	06/15/23 14:59	

LABORATORY CONTROL SAMPLE: 3388827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.97	97	80-120	
Calcium	mg/L	10	10	100	80-120	
Lithium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388828 3388829

Parameter	Units	50346288001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Boron	mg/L	0.080J	1	1.0	1	1.0	93	96	75-125	4	20	
Calcium	mg/L	31.2	10	38.6	10	40.3	74	91	75-125	4	20	M0
Lithium	mg/L	ND	1	0.95	1	0.99	95	99	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388830 3388831

Parameter	Units	50346299003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Boron	mg/L	0.19	1	1.2	1	1.2	96	97	75-125	0	20	
Calcium	mg/L	94.7	10	102	10	102	70	69	75-125	0	20	P6
Lithium	mg/L	0.011J	1	1.0	1	1.0	100	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch:	736322	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50345179001, 50345179002, 50345179003, 50345179004, 50345179005, 50345352001, 50345352002, 50345352003, 50345352004, 50345453001, 50345453002, 50345623001, 50345623002, 50345623003, 50345623004, 50345662001, 50345662002, 50345662003, 50345662004, 50345662005		

METHOD BLANK:	3378982	Matrix:	Water
Associated Lab Samples:	50345179001, 50345179002, 50345179003, 50345179004, 50345179005, 50345352001, 50345352002, 50345352003, 50345352004, 50345453001, 50345453002, 50345623001, 50345623002, 50345623003, 50345623004, 50345662001, 50345662002, 50345662003, 50345662004, 50345662005		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00013	06/01/23 05:50	
Arsenic	mg/L	ND	0.0010	0.00010	06/01/23 05:50	
Barium	mg/L	ND	0.0010	0.00014	06/01/23 05:50	
Beryllium	mg/L	ND	0.00020	0.000026	06/01/23 05:50	
Cadmium	mg/L	ND	0.00020	0.000054	06/01/23 05:50	
Chromium	mg/L	ND	0.0020	0.00020	06/01/23 05:50	
Cobalt	mg/L	ND	0.0010	0.000082	06/01/23 05:50	
Lead	mg/L	ND	0.0010	0.000080	06/01/23 05:50	
Molybdenum	mg/L	ND	0.0010	0.000072	06/01/23 05:50	
Selenium	mg/L	ND	0.0010	0.00044	06/01/23 05:50	
Thallium	mg/L	ND	0.0010	0.000072	06/01/23 05:50	

LABORATORY CONTROL SAMPLE: 3378983						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.042	104	80-120	
Arsenic	mg/L	0.04	0.039	99	80-120	
Barium	mg/L	0.04	0.039	97	80-120	
Beryllium	mg/L	0.04	0.039	98	80-120	
Cadmium	mg/L	0.04	0.039	98	80-120	
Chromium	mg/L	0.04	0.042	106	80-120	
Cobalt	mg/L	0.04	0.041	103	80-120	
Lead	mg/L	0.04	0.040	101	80-120	
Molybdenum	mg/L	0.04	0.040	99	80-120	
Selenium	mg/L	0.04	0.038	95	80-120	
Thallium	mg/L	0.04	0.040	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3378984												3378985		
Parameter	Units	50345453002		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							
Antimony	mg/L	0.00051J	0.04	0.04	0.043	0.043	106	106	75-125	0	20			
Arsenic	mg/L	0.00059J	0.04	0.04	0.039	0.040	97	99	75-125	2	20			
Barium	mg/L	0.015	0.04	0.04	0.053	0.053	95	96	75-125	0	20			

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3378984 3378985												
Parameter	Units	50345453002		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Beryllium	mg/L	0.000030J	0.04	0.04	0.039	0.039	98	99	75-125	1	20	
Cadmium	mg/L	0.00022	0.04	0.04	0.038	0.038	96	96	75-125	0	20	
Chromium	mg/L	0.00084J	0.04	0.04	0.042	0.041	102	101	75-125	1	20	
Cobalt	mg/L	0.00012J	0.04	0.04	0.039	0.039	97	98	75-125	1	20	
Lead	mg/L	ND	0.04	0.04	0.040	0.040	101	100	75-125	1	20	
Molybdenum	mg/L	0.019	0.04	0.04	0.061	0.061	104	105	75-125	0	20	
Selenium	mg/L	0.0074	0.04	0.04	0.046	0.046	97	95	75-125	1	20	
Thallium	mg/L	0.0027	0.04	0.04	0.044	0.044	103	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch:	737659	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50345792001, 50345792002, 50345792003, 50345792004, 50345792005, 50345924001, 50346175001, 50346175002, 50346175003, 50346299001, 50346299002, 50346299003		

METHOD BLANK:	3384239	Matrix:	Water
Associated Lab Samples:	50345792001, 50345792002, 50345792003, 50345792004, 50345792005, 50345924001, 50346175001, 50346175002, 50346175003, 50346299001, 50346299002, 50346299003		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000044	06/07/23 11:47	
Arsenic	mg/L	ND	0.0010	0.000064	06/07/23 11:47	
Barium	mg/L	ND	0.0010	0.000067	06/07/23 11:47	
Beryllium	mg/L	ND	0.00020	0.000026	06/07/23 11:47	
Cadmium	mg/L	ND	0.00020	0.000011	06/07/23 11:47	
Chromium	mg/L	ND	0.0020	0.00015	06/07/23 11:47	
Cobalt	mg/L	ND	0.0010	0.000024	06/07/23 11:47	
Lead	mg/L	ND	0.0010	0.000018	06/07/23 11:47	
Molybdenum	mg/L	ND	0.0010	0.000031	06/07/23 11:47	
Selenium	mg/L	ND	0.0010	0.00023	06/07/23 11:47	
Thallium	mg/L	ND	0.0010	0.000042	06/07/23 11:47	

LABORATORY CONTROL SAMPLE: 3384240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.041	103	80-120	
Arsenic	mg/L	0.04	0.039	97	80-120	
Barium	mg/L	0.04	0.040	101	80-120	
Beryllium	mg/L	0.04	0.038	95	80-120	
Cadmium	mg/L	0.04	0.041	102	80-120	
Chromium	mg/L	0.04	0.040	100	80-120	
Cobalt	mg/L	0.04	0.041	102	80-120	
Lead	mg/L	0.04	0.041	103	80-120	
Molybdenum	mg/L	0.04	0.040	101	80-120	
Selenium	mg/L	0.04	0.040	100	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3384241 3384242

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50346299003 Result	Spike Conc.	Spike Conc.	Result							Result
Antimony	mg/L	0.0011	0.04	0.04	0.043	0.043	104	106	75-125	1	20	
Arsenic	mg/L	0.00039J	0.04	0.04	0.039	0.040	97	98	75-125	1	20	
Barium	mg/L	0.037	0.04	0.04	0.079	0.078	105	103	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.040	0.041	101	102	75-125	1	20	
Cadmium	mg/L	0.013	0.04	0.04	0.054	0.054	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3384241 3384242											
Parameter	Units	50346299003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Chromium	mg/L	0.0024	0.04	0.04	0.041	0.041	97	97	75-125	0	20
Cobalt	mg/L	0.0016	0.04	0.04	0.039	0.040	94	95	75-125	1	20
Lead	mg/L	0.000051J	0.04	0.04	0.042	0.041	104	103	75-125	1	20
Molybdenum	mg/L	0.029	0.04	0.04	0.069	0.069	101	100	75-125	0	20
Selenium	mg/L	0.0048	0.04	0.04	0.046	0.046	102	102	75-125	0	20
Thallium	mg/L	0.015	0.04	0.04	0.056	0.056	104	104	75-125	0	20

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QUALITY CONTROL DATA

Project: Bailly Assessment
Pace Project No.: 50345179

QC Batch: 738629 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50346392001, 50346392002, 50346392003

METHOD BLANK: 3388924 Matrix: Water

Associated Lab Samples: 50346392001, 50346392002, 50346392003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	06/13/23 08:06	
Arsenic	mg/L	ND	0.0010	0.00012	06/13/23 08:06	
Barium	mg/L	ND	0.0010	0.000065	06/13/23 08:06	
Beryllium	mg/L	ND	0.00020	0.000026	06/13/23 08:06	
Cadmium	mg/L	ND	0.00020	0.000016	06/13/23 08:06	
Chromium	mg/L	ND	0.0020	0.00018	06/13/23 08:06	
Cobalt	mg/L	ND	0.0010	0.000071	06/13/23 08:06	
Lead	mg/L	ND	0.0010	0.000068	06/13/23 08:06	
Molybdenum	mg/L	ND	0.0010	0.000074	06/13/23 08:06	
Selenium	mg/L	ND	0.0010	0.00019	06/13/23 08:06	
Thallium	mg/L	ND	0.0010	0.000060	06/13/23 08:06	

LABORATORY CONTROL SAMPLE: 3388925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.041	103	80-120	
Arsenic	mg/L	0.04	0.040	100	80-120	
Barium	mg/L	0.04	0.040	101	80-120	
Beryllium	mg/L	0.04	0.041	102	80-120	
Cadmium	mg/L	0.04	0.039	98	80-120	
Chromium	mg/L	0.04	0.042	104	80-120	
Cobalt	mg/L	0.04	0.041	102	80-120	
Lead	mg/L	0.04	0.041	103	80-120	
Molybdenum	mg/L	0.04	0.040	100	80-120	
Selenium	mg/L	0.04	0.041	102	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388926 3388927

Parameter	Units	50346392001		3388927		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Antimony	mg/L	0.0013	0.04	0.04	0.043	0.043	105	104	75-125	1	20	
Arsenic	mg/L	0.0033	0.04	0.04	0.043	0.042	98	97	75-125	1	20	
Barium	mg/L	0.013	0.04	0.04	0.052	0.051	98	96	75-125	2	20	
Beryllium	mg/L	ND	0.04	0.04	0.042	0.041	104	103	75-125	1	20	
Cadmium	mg/L	0.00010J	0.04	0.04	0.039	0.038	97	96	75-125	1	20	
Chromium	mg/L	0.0088	0.04	0.04	0.049	0.048	101	98	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388926 3388927												
Parameter	Units	50346392001		MS		MSD		MS		MSD		
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec	% Rec	
										% Rec	Max RPD	Qual
Cobalt	mg/L	0.00053J	0.04	0.04	0.041	0.040	101	98	75-125	2	20	
Lead	mg/L	0.00016J	0.04	0.04	0.042	0.040	103	101	75-125	3	20	
Molybdenum	mg/L	0.045	0.04	0.04	0.086	0.087	103	105	75-125	1	20	
Selenium	mg/L	0.011	0.04	0.04	0.051	0.049	102	97	75-125	4	20	
Thallium	mg/L	0.0033	0.04	0.04	0.045	0.044	104	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 735456

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345179001, 50345179002, 50345179003, 50345179004

METHOD BLANK: 3374790

Matrix: Water

Associated Lab Samples: 50345179001, 50345179002, 50345179003, 50345179004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/24/23 08:03	

LABORATORY CONTROL SAMPLE: 3374791

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

SAMPLE DUPLICATE: 3374792

Parameter	Units	50345156016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	306	314	3	10	

SAMPLE DUPLICATE: 3374793

Parameter	Units	50345156017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	566	558	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 735457

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345179005

METHOD BLANK: 3374794

Matrix: Water

Associated Lab Samples: 50345179005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/24/23 08:21	

LABORATORY CONTROL SAMPLE: 3374795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3374796

Parameter	Units	50345179005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	443	452	2	10	

SAMPLE DUPLICATE: 3374797

Parameter	Units	50345193004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	578	562	3	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment
Pace Project No.: 50345179

QC Batch: 735791 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345352001, 50345352002, 50345352003, 50345352004

METHOD BLANK: 3376264 Matrix: Water
Associated Lab Samples: 50345352001, 50345352002, 50345352003, 50345352004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/25/23 14:55	

LABORATORY CONTROL SAMPLE: 3376265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	285	95	80-120	

SAMPLE DUPLICATE: 3376266

Parameter	Units	50345315002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	396	401	1	10	

SAMPLE DUPLICATE: 3376267

Parameter	Units	50345315003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	508	513	1	10	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736009	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345453001, 50345453002

METHOD BLANK: 3377455 Matrix: Water

Associated Lab Samples: 50345453001, 50345453002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/26/23 08:28	

LABORATORY CONTROL SAMPLE: 3377456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	279	93	80-120	

SAMPLE DUPLICATE: 3377457

Parameter	Units	50345425001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	484	482	0	10	

SAMPLE DUPLICATE: 3377458

Parameter	Units	50345453002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	243	244	0	10	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736102

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345623001

METHOD BLANK: 3377807

Matrix: Water

Associated Lab Samples: 50345623001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/26/23 12:21	

LABORATORY CONTROL SAMPLE: 3377808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	279	93	80-120	

SAMPLE DUPLICATE: 3377809

Parameter	Units	50345499014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	646	666	3	10	

SAMPLE DUPLICATE: 3377810

Parameter	Units	50345528002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1150	1140	0	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 736250

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345623002, 50345623003, 50345623004

METHOD BLANK: 3378687

Matrix: Water

Associated Lab Samples: 50345623002, 50345623003, 50345623004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/27/23 08:21	

LABORATORY CONTROL SAMPLE: 3378688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	275	92	80-120	

SAMPLE DUPLICATE: 3378689

Parameter	Units	50345432002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2460	2460	0	10	

SAMPLE DUPLICATE: 3378690

Parameter	Units	50345623003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	335	345	3	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch:	736329	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345662001, 50345662002, 50345662003, 50345662004, 50345662005

METHOD BLANK: 3379014 Matrix: Water
Associated Lab Samples: 50345662001, 50345662002, 50345662003, 50345662004, 50345662005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/29/23 08:36	

LABORATORY CONTROL SAMPLE: 3379015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	286	95	80-120	

SAMPLE DUPLICATE: 3379016

Parameter	Units	50345638001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3900000 ug/L	3930	1	10	

SAMPLE DUPLICATE: 3379017

Parameter	Units	50345645001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1180	1170	1	10	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736530

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345792001, 50345792002, 50345792003, 50345792004, 50345792005

METHOD BLANK: 3379569

Matrix: Water

Associated Lab Samples: 50345792001, 50345792002, 50345792003, 50345792004, 50345792005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/31/23 08:12	

LABORATORY CONTROL SAMPLE: 3379570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	277	92	80-120	

SAMPLE DUPLICATE: 3379571

Parameter	Units	50345766005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	447	456	2	10	

SAMPLE DUPLICATE: 3379572

Parameter	Units	50345774001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1030	1030	0	10	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736903

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50345924001

METHOD BLANK: 3381022

Matrix: Water

Associated Lab Samples: 50345924001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	06/01/23 08:21	

LABORATORY CONTROL SAMPLE: 3381023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	80-120	

SAMPLE DUPLICATE: 3381024

Parameter	Units	50345903001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	958	940	2	10	

SAMPLE DUPLICATE: 3381025

Parameter	Units	50345920002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	480	472	2	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 737595

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory:

Pace Analytical Services - Indianapolis

Associated Lab Samples: 50346175001, 50346175002, 50346175003

METHOD BLANK: 3383936

Matrix: Water

Associated Lab Samples: 50346175001, 50346175002, 50346175003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	06/05/23 16:02	

LABORATORY CONTROL SAMPLE: 3383937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	287	96	80-120	

SAMPLE DUPLICATE: 3383938

Parameter	Units	50346157002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2480	2450	1	10	

SAMPLE DUPLICATE: 3383939

Parameter	Units	50346175001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	240	230	4	10	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 737709

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50346299001, 50346299002

METHOD BLANK: 3384351

Matrix: Water

Associated Lab Samples: 50346299001, 50346299002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	06/06/23 09:13	

LABORATORY CONTROL SAMPLE: 3384352

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

SAMPLE DUPLICATE: 3384353

Parameter	Units	50346280004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<50.0	37	20	10	R1

SAMPLE DUPLICATE: 3384354

Parameter	Units	50346295009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	545	546	0	10	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 737921

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50346299003, 50346392001, 50346392002, 50346392003

METHOD BLANK: 3385199

Matrix: Water

Associated Lab Samples: 50346299003, 50346392001, 50346392002, 50346392003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	06/07/23 08:30	

LABORATORY CONTROL SAMPLE: 3385200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3385201

Parameter	Units	50346299003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	487	484	1	10	

SAMPLE DUPLICATE: 3385202

Parameter	Units	50346458001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1230	1240	1	10	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736696

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: 50345179001, 50345179002, 50345179003

SAMPLE DUPLICATE: 3380087

Parameter	Units	50345105004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.8	0	2	H3

SAMPLE DUPLICATE: 3380088

Parameter	Units	50345115001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	0	2	H3

SAMPLE DUPLICATE: 3380089

Parameter	Units	50345115005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.0	1	2	H3

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736697

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: 50345179004, 50345179005

SAMPLE DUPLICATE: 3380090

Parameter	Units	50345179004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	2	H3

SAMPLE DUPLICATE: 3380091

Parameter	Units	50345193004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 736809

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: 50345352001, 50345352002, 50345352003, 50345352004

SAMPLE DUPLICATE: 3380536

Parameter	Units	50345296006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.4	6.5	1	2	H3

SAMPLE DUPLICATE: 3380537

Parameter	Units	50345846002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 737427

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: 50345453002

SAMPLE DUPLICATE: 3383562

Parameter	Units	50345453002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.6	1	2	H3

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 737517

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: 50345453001, 50345623001, 50345623002, 50345623003, 50345623004

SAMPLE DUPLICATE: 3383741

Parameter	Units	50345453001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.8	1	2	H3

SAMPLE DUPLICATE: 3383742

Parameter	Units	50345774001 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: Baily Assessment

Pace Project No.: 50345179

QC Batch: 737625

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: 50345662001, 50345662002, 50345662003

SAMPLE DUPLICATE: 3384082

Parameter	Units	50345615003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.2	0	2	H3

SAMPLE DUPLICATE: 3384083

Parameter	Units	50345644005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 737713

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: 50345662004, 50345662005

SAMPLE DUPLICATE: 3384355

Parameter	Units	50345662004 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: Baily Assessment

Pace Project No.: 50345179

QC Batch: 738037

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: 50345792001, 50345792002, 50345792003, 50345792004, 50345792005

SAMPLE DUPLICATE: 3385555

Parameter	Units	50345779001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.3	9.4	1	2	H3

SAMPLE DUPLICATE: 3385556

Parameter	Units	50345156002 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: Bailly Assessment

Pace Project No.: 50345179

QC Batch: 738653

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: 50345924001

SAMPLE DUPLICATE: 3388988

Parameter	Units	50345924001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

SAMPLE DUPLICATE: 3388989

Parameter	Units	50345930001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	2	H3

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50345179

QC Batch: 738716

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: 50346175001, 50346175002, 50346175003

SAMPLE DUPLICATE: 3389255

Parameter	Units	50346065002 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: Baily Assessment

Pace Project No.: 50345179

QC Batch:	739277	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: 50346299001, 50346299002, 50346299003

SAMPLE DUPLICATE: 3391412

Parameter	Units	50345586002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	2	H3

SAMPLE DUPLICATE: 3391413

Parameter	Units	50346299003 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: Baily Assessment

Pace Project No.: 50345179

QC Batch: 739534

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: 50346392001, 50346392002, 50346392003

SAMPLE DUPLICATE: 3392550

Parameter	Units	50346345006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	2	H3

SAMPLE DUPLICATE: 3392551

Parameter	Units	50346688001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	1	2	H3

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QUALIFIERS

Project: Bailly Assessment

Pace Project No.: 50345179

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C0 Result confirmed by second analysis.

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.

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.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50345179

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50345179001	GAMW-01-051723	EPA 9056	735156		
50345179002	GAMW-01B-051723	EPA 9056	735156		
50345179003	GAMW-02-051723	EPA 9056	735156		
50345179004	GAMW-03-051723	EPA 9056	735156		
50345179005	GAMW-04-051723	EPA 9056	735156		
50345352001	GAMW-06-051823	EPA 9056	736745		
50345352002	GAMW-07-051823	EPA 9056	736745		
50345352003	GAMW-08-051823	EPA 9056	736745		
50345352004	FB-01-051823	EPA 9056	736745		
50345453001	GAMW-08B-051923	EPA 9056	736748		
50345453002	GAMW-10-051923	EPA 9056	736750		
50345623001	GAMW-11-052223	EPA 9056	736752		
50345623002	GAMW-11B-052223	EPA 9056	736752		
50345623003	GAMW-11C-052223	EPA 9056	736752		
50345623004	FD-01-052223	EPA 9056	736752		
50345662001	GAMW-12R-052323	EPA 9056	736756		
50345662002	GAMW-13-052323	EPA 9056	736756		
50345662003	GAMW-14-052323	EPA 9056	736756		
50345662004	GAMW-16-052323	EPA 9056	736756		
50345662005	FD-02	EPA 9056	736756		
50345792001	MW-105-052423	EPA 9056	737324		
50345792002	MW-112-052423	EPA 9056	737324		
50345792003	GAMW-17-052423	EPA 9056	737324		
50345792004	GAMW-17B-052423	EPA 9056	737324		
50345792005	FB-02-052423	EPA 9056	737324		
50345924001	GAMW-18-052523	EPA 9056	737759		
50346175001	GAMW-19-053123	EPA 9056	738291		
50346175002	GAMW-20-053123	EPA 9056	738291		
50346175003	FD-05-053123	EPA 9056	738291		
50346299001	GAMW-21-060123	EPA 9056	738542		
50346299002	GAMW-22-060123	EPA 9056	738542		
50346299003	GAMW-22B-060123	EPA 9056	738542		
50346392001	GAMW-23-060223	EPA 9056	739167		
50346392002	GAMW-23B-060223	EPA 9056	739167		
50346392003	FB-05-060223	EPA 9056	739167		
50345179001	GAMW-01-051723	EPA 3010	735690	EPA 6010	736592
50345179002	GAMW-01B-051723	EPA 3010	735690	EPA 6010	736592
50345179003	GAMW-02-051723	EPA 3010	735690	EPA 6010	736592
50345179004	GAMW-03-051723	EPA 3010	735690	EPA 6010	736592
50345179005	GAMW-04-051723	EPA 3010	735690	EPA 6010	736592
50345352001	GAMW-06-051823	EPA 3010	735690	EPA 6010	736592
50345352002	GAMW-07-051823	EPA 3010	735690	EPA 6010	736592
50345352003	GAMW-08-051823	EPA 3010	735690	EPA 6010	736592

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50345179

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50345352004	FB-01-051823	EPA 3010	735690	EPA 6010	736592
50345453001	GAMW-08B-051923	EPA 3010	736789	EPA 6010	737533
50345453002	GAMW-10-051923	EPA 3010	736789	EPA 6010	737533
50345623001	GAMW-11-052223	EPA 3010	736789	EPA 6010	737533
50345623002	GAMW-11B-052223	EPA 3010	736789	EPA 6010	737533
50345623003	GAMW-11C-052223	EPA 3010	736789	EPA 6010	737533
50345623004	FD-01-052223	EPA 3010	736789	EPA 6010	737533
50345662001	GAMW-12R-052323	EPA 3010	736789	EPA 6010	737533
50345662002	GAMW-13-052323	EPA 3010	736789	EPA 6010	737533
50345662003	GAMW-14-052323	EPA 3010	736789	EPA 6010	737533
50345662004	GAMW-16-052323	EPA 3010	736789	EPA 6010	737533
50345662005	FD-02	EPA 3010	736789	EPA 6010	737533
50345792001	MW-105-052423	EPA 3010	736789	EPA 6010	737533
50345792002	MW-112-052423	EPA 3010	736789	EPA 6010	737533
50345792003	GAMW-17-052423	EPA 3010	736789	EPA 6010	737533
50345792004	GAMW-17B-052423	EPA 3010	736789	EPA 6010	737533
50345792005	FB-02-052423	EPA 3010	736789	EPA 6010	737533
50345924001	GAMW-18-052523	EPA 3010	736789	EPA 6010	737533
50346175001	GAMW-19-053123	EPA 3010	737092	EPA 6010	738830
50346175002	GAMW-20-053123	EPA 3010	737092	EPA 6010	738830
50346175003	FD-05-053123	EPA 3010	737092	EPA 6010	738830
50346299001	GAMW-21-060123	EPA 3010	738597	EPA 6010	739514
50346299002	GAMW-22-060123	EPA 3010	738597	EPA 6010	739514
50346299003	GAMW-22B-060123	EPA 3010	738597	EPA 6010	739514
50346392001	GAMW-23-060223	EPA 3010	738597	EPA 6010	739514
50346392002	GAMW-23B-060223	EPA 3010	738597	EPA 6010	739514
50346392003	FB-05-060223	EPA 3010	738597	EPA 6010	739514
50345179001	GAMW-01-051723	EPA 200.2	736322	EPA 6020	736488
50345179002	GAMW-01B-051723	EPA 200.2	736322	EPA 6020	736488
50345179003	GAMW-02-051723	EPA 200.2	736322	EPA 6020	736488
50345179004	GAMW-03-051723	EPA 200.2	736322	EPA 6020	736488
50345179005	GAMW-04-051723	EPA 200.2	736322	EPA 6020	736488
50345352001	GAMW-06-051823	EPA 200.2	736322	EPA 6020	736488
50345352002	GAMW-07-051823	EPA 200.2	736322	EPA 6020	736488
50345352003	GAMW-08-051823	EPA 200.2	736322	EPA 6020	736488
50345352004	FB-01-051823	EPA 200.2	736322	EPA 6020	736488
50345453001	GAMW-08B-051923	EPA 200.2	736322	EPA 6020	736488
50345453002	GAMW-10-051923	EPA 200.2	736322	EPA 6020	736488
50345623001	GAMW-11-052223	EPA 200.2	736322	EPA 6020	736488
50345623002	GAMW-11B-052223	EPA 200.2	736322	EPA 6020	736488
50345623003	GAMW-11C-052223	EPA 200.2	736322	EPA 6020	736488
50345623004	FD-01-052223	EPA 200.2	736322	EPA 6020	736488
50345662001	GAMW-12R-052323	EPA 200.2	736322	EPA 6020	736488
50345662002	GAMW-13-052323	EPA 200.2	736322	EPA 6020	736488
50345662003	GAMW-14-052323	EPA 200.2	736322	EPA 6020	736488
50345662004	GAMW-16-052323	EPA 200.2	736322	EPA 6020	736488
50345662005	FD-02	EPA 200.2	736322	EPA 6020	736488

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment
Pace Project No.: 50345179

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50345792001	MW-105-052423	EPA 200.2	737659	EPA 6020	737889
50345792002	MW-112-052423	EPA 200.2	737659	EPA 6020	737889
50345792003	GAMW-17-052423	EPA 200.2	737659	EPA 6020	737889
50345792004	GAMW-17B-052423	EPA 200.2	737659	EPA 6020	737889
50345792005	FB-02-052423	EPA 200.2	737659	EPA 6020	737889
50345924001	GAMW-18-052523	EPA 200.2	737659	EPA 6020	737889
50346175001	GAMW-19-053123	EPA 200.2	737659	EPA 6020	737889
50346175002	GAMW-20-053123	EPA 200.2	737659	EPA 6020	737889
50346175003	FD-05-053123	EPA 200.2	737659	EPA 6020	737889
50346299001	GAMW-21-060123	EPA 200.2	737659	EPA 6020	737889
50346299002	GAMW-22-060123	EPA 200.2	737659	EPA 6020	737889
50346299003	GAMW-22B-060123	EPA 200.2	737659	EPA 6020	737889
50346392001	GAMW-23-060223	EPA 200.2	738629	EPA 6020	738800
50346392002	GAMW-23B-060223	EPA 200.2	738629	EPA 6020	738800
50346392003	FB-05-060223	EPA 200.2	738629	EPA 6020	738800
50345179001	GAMW-01-051723	EPA 7470	736719	EPA 7470	737098
50345179002	GAMW-01B-051723	EPA 7470	736719	EPA 7470	737098
50345179003	GAMW-02-051723	EPA 7470	736719	EPA 7470	737098
50345179004	GAMW-03-051723	EPA 7470	736719	EPA 7470	737098
50345179005	GAMW-04-051723	EPA 7470	736719	EPA 7470	737098
50345352001	GAMW-06-051823	EPA 7470	736447	EPA 7470	736826
50345352002	GAMW-07-051823	EPA 7470	736447	EPA 7470	736826
50345352003	GAMW-08-051823	EPA 7470	736447	EPA 7470	736826
50345352004	FB-01-051823	EPA 7470	736447	EPA 7470	736826
50345453001	GAMW-08B-051923	EPA 7470	736578	EPA 7470	737096
50345453002	GAMW-10-051923	EPA 7470	736578	EPA 7470	737096
50345623001	GAMW-11-052223	EPA 7470	736450	EPA 7470	736827
50345623002	GAMW-11B-052223	EPA 7470	736450	EPA 7470	736827
50345623003	GAMW-11C-052223	EPA 7470	736450	EPA 7470	736827
50345623004	FD-01-052223	EPA 7470	736450	EPA 7470	736827
50345662001	GAMW-12R-052323	EPA 7470	736719	EPA 7470	737098
50345662002	GAMW-13-052323	EPA 7470	736719	EPA 7470	737098
50345662003	GAMW-14-052323	EPA 7470	736719	EPA 7470	737098
50345662004	GAMW-16-052323	EPA 7470	736719	EPA 7470	737098
50345662005	FD-02	EPA 7470	736719	EPA 7470	737098
50345792001	MW-105-052423	EPA 7470	737254	EPA 7470	737645
50345792002	MW-112-052423	EPA 7470	737254	EPA 7470	737645
50345792003	GAMW-17-052423	EPA 7470	737254	EPA 7470	737645
50345792004	GAMW-17B-052423	EPA 7470	737254	EPA 7470	737645
50345792005	FB-02-052423	EPA 7470	737254	EPA 7470	737645
50345924001	GAMW-18-052523	EPA 7470	737608	EPA 7470	737907
50346175001	GAMW-19-053123	EPA 7470	738462	EPA 7470	738870
50346175002	GAMW-20-053123	EPA 7470	738462	EPA 7470	738870
50346175003	FD-05-053123	EPA 7470	738462	EPA 7470	738870

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment
Pace Project No.: 50345179

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50346299001	GAMW-21-060123	EPA 7470	738465	EPA 7470	739311
50346299002	GAMW-22-060123	EPA 7470	738465	EPA 7470	739311
50346299003	GAMW-22B-060123	EPA 7470	738465	EPA 7470	739311
50346392001	GAMW-23-060223	EPA 7470	738465	EPA 7470	739311
50346392002	GAMW-23B-060223	EPA 7470	738465	EPA 7470	739311
50346392003	FB-05-060223	EPA 7470	738465	EPA 7470	739311
50345179001	GAMW-01-051723	SM 2540C	735456		
50345179002	GAMW-01B-051723	SM 2540C	735456		
50345179003	GAMW-02-051723	SM 2540C	735456		
50345179004	GAMW-03-051723	SM 2540C	735456		
50345179005	GAMW-04-051723	SM 2540C	735457		
50345352001	GAMW-06-051823	SM 2540C	735791		
50345352002	GAMW-07-051823	SM 2540C	735791		
50345352003	GAMW-08-051823	SM 2540C	735791		
50345352004	FB-01-051823	SM 2540C	735791		
50345453001	GAMW-08B-051923	SM 2540C	736009		
50345453002	GAMW-10-051923	SM 2540C	736009		
50345623001	GAMW-11-052223	SM 2540C	736102		
50345623002	GAMW-11B-052223	SM 2540C	736250		
50345623003	GAMW-11C-052223	SM 2540C	736250		
50345623004	FD-01-052223	SM 2540C	736250		
50345662001	GAMW-12R-052323	SM 2540C	736329		
50345662002	GAMW-13-052323	SM 2540C	736329		
50345662003	GAMW-14-052323	SM 2540C	736329		
50345662004	GAMW-16-052323	SM 2540C	736329		
50345662005	FD-02	SM 2540C	736329		
50345792001	MW-105-052423	SM 2540C	736530		
50345792002	MW-112-052423	SM 2540C	736530		
50345792003	GAMW-17-052423	SM 2540C	736530		
50345792004	GAMW-17B-052423	SM 2540C	736530		
50345792005	FB-02-052423	SM 2540C	736530		
50345924001	GAMW-18-052523	SM 2540C	736903		
50346175001	GAMW-19-053123	SM 2540C	737595		
50346175002	GAMW-20-053123	SM 2540C	737595		
50346175003	FD-05-053123	SM 2540C	737595		
50346299001	GAMW-21-060123	SM 2540C	737709		
50346299002	GAMW-22-060123	SM 2540C	737709		
50346299003	GAMW-22B-060123	SM 2540C	737921		
50346392001	GAMW-23-060223	SM 2540C	737921		
50346392002	GAMW-23B-060223	SM 2540C	737921		
50346392003	FB-05-060223	SM 2540C	737921		
50345179001	GAMW-01-051723	SM 4500-H+B	736696		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50345179

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50345179002	GAMW-01B-051723	SM 4500-H+B	736696		
50345179003	GAMW-02-051723	SM 4500-H+B	736696		
50345179004	GAMW-03-051723	SM 4500-H+B	736697		
50345179005	GAMW-04-051723	SM 4500-H+B	736697		
50345352001	GAMW-06-051823	SM 4500-H+B	736809		
50345352002	GAMW-07-051823	SM 4500-H+B	736809		
50345352003	GAMW-08-051823	SM 4500-H+B	736809		
50345352004	FB-01-051823	SM 4500-H+B	736809		
50345453001	GAMW-08B-051923	SM 4500-H+B	737517		
50345453002	GAMW-10-051923	SM 4500-H+B	737427		
50345623001	GAMW-11-052223	SM 4500-H+B	737517		
50345623002	GAMW-11B-052223	SM 4500-H+B	737517		
50345623003	GAMW-11C-052223	SM 4500-H+B	737517		
50345623004	FD-01-052223	SM 4500-H+B	737517		
50345662001	GAMW-12R-052323	SM 4500-H+B	737625		
50345662002	GAMW-13-052323	SM 4500-H+B	737625		
50345662003	GAMW-14-052323	SM 4500-H+B	737625		
50345662004	GAMW-16-052323	SM 4500-H+B	737713		
50345662005	FD-02	SM 4500-H+B	737713		
50345792001	MW-105-052423	SM 4500-H+B	738037		
50345792002	MW-112-052423	SM 4500-H+B	738037		
50345792003	GAMW-17-052423	SM 4500-H+B	738037		
50345792004	GAMW-17B-052423	SM 4500-H+B	738037		
50345792005	FB-02-052423	SM 4500-H+B	738037		
50345924001	GAMW-18-052523	SM 4500-H+B	738653		
50346175001	GAMW-19-053123	SM 4500-H+B	738716		
50346175002	GAMW-20-053123	SM 4500-H+B	738716		
50346175003	FD-05-053123	SM 4500-H+B	738716		
50346299001	GAMW-21-060123	SM 4500-H+B	739277		
50346299002	GAMW-22-060123	SM 4500-H+B	739277		
50346299003	GAMW-22B-060123	SM 4500-H+B	739277		
50346392001	GAMW-23-060223	SM 4500-H+B	739534		
50346392002	GAMW-23B-060223	SM 4500-H+B	739534		
50346392003	FB-05-060223	SM 4500-H+B	739534		

REPORT OF LABORATORY ANALYSIS

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Sample Container Count

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

COC Line Item	WGFI	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																					
1																																							WT	✓													
2																																																					
3																																																					
4																																																					
5																																																					
6																																																					
7																																																					
8																																																					
9																																																					
10																																																					
11																																																					
12																																																					

Container Codes

Glass			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFI	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFI	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass

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



CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

WO#: 50345352



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	NiSource_WSP	Report To	Tom Haskins	Attention	Jeff Loewe U126177
Address	670 North Commercial Street Manchester, NH 03101	Copy To	Danielle Sylvia, Gave Dixon	Company Name	NiSource
Email	Thomas_Haskins@golder.com	Purchase Order #	PO21520	Address	
Phone	(603)782-2433 Fax	Project Name	Baily Assessment	Pace Quote	
Requested Due Date	10 day TAT	Project #	31404789.008	Pace Project Manager	tina.sayer@pacelabs.com,
				Pace Profile #	9046-1

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 **	Cl, F, SO4 by 9056	TDS 2540C		pH 4500	
						DATE	TIME	DATE	TIME																	
1	GAMW-06-051823			WT G				5/18/23	1050	3	2	1													001	
2	GAMW-07-051823			WT G				5/18/23	1250	3	2	1														002
3	GAMW-08-051823			WT G				5/18/23	1420	3	2	1														003
4	FB-01-051823			WT B				5/18/23	1500	3	2	1														004
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**B,Ca,Li by 6010; Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020 Hg by 7470	<i>[Signature]</i> / USP FE	5/18/23	1700	FE <i>[Signature]</i>	5/19/23	0935	1.1 Y Y X

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed (Y/N)	Cooper (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>[Signature]</i>						
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed: 5/18/23					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 5/19/23 1230

- 1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F
- 4. Cooler Temperature(s): 1.3/1.1
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other Plastic Bag
- 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:		<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:			<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> <input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)		<u>N/A</u>	Trip Blank Present?		<input checked="" type="checkbox"/>	
			Trip Blank Custody Seals?			<input checked="" type="checkbox"/>

COMMENTS:

WO#: 50345453



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company	NiSource WSP
Address	670 North Commercial Street
Manchester, NH 03101	
Email	Thomas_Haskins@golder.com
Phone	(603)782-2433
Requested Due Date	10 day TAT

Report To	Tom Haskins
Copy To	Danielle Sylvia, Gave Dixon
Purchase Order #	PO21520
Project Name	Baily Assessment
Project #	31404789.008

Section C

Invoice Information:

Attention	Jeff Loewe U126177
Company Name	NiSource
Address	
Pace Quote	
Pace Project Manager	tina.sayer@pacelabs.com
Pace Profile #	9046-1

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									Y/N	Analyses, Test Total metals **	Regulatory Agency	State / Location	IN			
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)								
				DATE	TIME	DATE	TIME																			
1	GAMW-088-051923	WT	G	5/19/23	1020	3	2	/										X	X	X						
2	GAMW-10-051923	WT	G	5/19/23	1320	3	2	/										X	X	X					MS-01 / MSD-01	001 002
3	[REDACTED]																									
4	[REDACTED]																									
5	[REDACTED]																									
6	[REDACTED]																									
7	[REDACTED]																									
8	[REDACTED]																									
9	[REDACTED]																									
10	[REDACTED]																									
11	[REDACTED]																									
12	[REDACTED]																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
**B,Ca,Li by 6010;	[Signature] / WSP	5/19/23	1600	Fedex					
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Fedex	5-19-23	0905	Nicklaus Wenzel	5-19-23	0905	2.6	Y	Y
Hg by 7470									

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	[Signature]	
SIGNATURE of SAMPLER:	[Signature]	DATE Signed: 5/19/23
TEMP in C	Received on ice (Y/N)	Custody Seal Cool (Y/N)
	Page 1 of 3	Sam. Intact (Y/N)
		156



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/20/23 1111-MW

1. Courier: FED EX UPS CLIENT PACE USPS OTHER
2. Custody Seal on Cooler/Box Present: Yes No MW 5/20/23
 (If yes)Seals Intact: Yes No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 A B C D E F**
4. Cooler Temperature(s): 26/26
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other ZPIC
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:		<input checked="" type="checkbox"/>	Circle: HNO3 (<3) 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:			Present	Absent	N/A
		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			
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 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?			
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			

COMMENTS:

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

COC Line Item	WGFU	MeOH (only) SBS DI R	VIALS											AMBER GLASS							PLASTIC							OTHER			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9		
			DG9H	DG9P	DG9S	DG9T	VG9H	VG9U	VG9V	VG9W	VG9X	VG9Y	VG9Z	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H						CG3F	Syringe Kit
			VOA VIAL HS (>6mm)	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit															
			VOA VIAL HS (>6mm)	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit															
1																																					
2																				1	1	1															
3																				3	3	3															
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					

Container Codes

Glass				Plastic				Miscellaneous	
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

WO#: 50345623



50345623

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : _____ Of _____

Section A Required Information:		Section C Invoice Information:	
Company: NiSource WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	
Address: 670 North Commercial Street Manchester, NH 03101	Copy To: Danielle Sylvia, Gave Dixon	Company Name: NiSource	
Email: Thomas.Haskins@golder.com	Purchase Order #: PO21520	Address:	Regulatory Agency
Phone: (603)782-2433 Fax:	Project Name: Bailly Assessment	Pace Quote:	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.008	Pace Project Manager: tina.sayer@pacelabs.com,	IN
		Pace Profile #: 9046-1	

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								Y/N	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 **	Cl, F, SO4 by 9056		TDS 2540C	pH 4500		
						DATE	TIME	DATE	TIME																			
1	GAMW-11-052223	WTG		WTG				5/22/23	0856	3	2	1																
2	GAMW-11B-052223	WTG		WTG				5/22/23	1110	3	2	1																
3	GAMW-11C-052223	WTG		WTG				5/22/23	1235	3	2	1																
4	FD-01-052223	WTG		WTG				5/22/23	1200	3	2	1																
5	██████████																											
6	██████████																											
7	██████████																											
8	██████████																											
9	██████████																											
10	██████████																											
11	██████████																											
12	██████████																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	<i>[Signature]</i> / WSP	5/22/23	1700	<i>[Signature]</i> FedEx			11			
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Felex	5/23/23	9:20	<i>[Signature]</i>	5/23/23	9:20	0.8	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooling (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>P. SALAMAN</i>						
SIGNATURE of SAMPLER: <i>[Signature]</i>						
DATE Signed: 5/22/23						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/23/23 18:27 JG

- 1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F**

0.7/0.8	1.0/1.1		
---------	---------	--	--
- 4. Cooler Temperature(s): 0.7/0.8 1.0/1.1
(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)		—	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:		—	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:			Present	Absent	N/A
			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?			—
			Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	—					—
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 CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MSZ 5/24/23 1300

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No

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

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F B
4. Cooler Temperature(s): 1.3/1.3 2.0/2.0
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

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:		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> 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)	<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>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<u>MSZ</u> <input checked="" type="checkbox"/>	<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 RECD NOT ON COC FD-02 5/23/23 1200
 Analyze FD-02 for all parameters per G. Dixon email. 05/24/23tms



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 5-25-23 11:18

1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F

4. Cooler Temperature(s): 0.6/0.6 0.6/0.6
 (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:		<input checked="" type="checkbox"/>	Circle: <u>FINO3 (<2)</u> 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)	<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>	No VOA Vials Sent <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"/>	<input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 05/26/23 1030 JF

1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F
 4. Cooler Temperature(s): 0.8 / 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)		<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. Circle:			
Short Hold Time Analysis (48 hours or less)? Analysis:			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>Present</u>	<u>Absent</u>	<u>N/A</u>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
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:



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be filled out.

WO#: 50346175



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NiSource_WSP		Report To: Tom Haskins		Attention: Jeff Loewe U126177	
Address: 670 North Commercial Street Manchester, NH 03101		Copy To: Danielle Sylvia, Gave Dixon		Company Name: NiSource	
Email: Thomas_Haskins@golder.com		Purchase Order #: PO33928		Address:	
Phone: (603)782-2433 Fax:		Project Name: Bailly Assessment		Pace Quote:	
Requested Due Date: 10 day TAT		Project #: 31404789.008		Pace Project Manager: tina.sayer@pacelabs.com,	
					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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/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	Analyses Test	Total metals **	Cl, F, SO4 by 9056		TDS 2540C	pH 4500								
1	GANW-19-053123	WT	G		G			5/21/23	1235	32	1																							001
2	GANW-20-053123	WT	G		G			5/21/23	1440	32	1																							002
3	FB-05-053123	WT	G		G			5/21/23	1200	32	1																							003
4																																		
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**B,Ca,Li by 6010; Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020 Hg by 7470	<i>[Signature]</i> WSP FE	5/31/23		FE <i>[Signature]</i> Pace	6/1/23	0905	see SCUR

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Initialed (Y/N)
PRINT Name of SAMPLER: <i>[Signature]</i>	SIGNATURE of SAMPLER: <i>[Signature]</i>				
DATE Signed: 5/31/23					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 6/1/23 0957

1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F

4. Cooler Temperature(s): 1.3/1.12 1.1/0.82
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags

None Other Plastic Bags

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:		<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
		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
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)		<u>N/A</u>	Trip Blank Custody Seals?			<input checked="" type="checkbox"/>

COMMENTS: GAMW-20-053123 container times = 1435, COC = 1440. DMP 6/1/23

FB on COC should be FD per D. Sylvia email. 06/08/23trms



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 6-2-23 10:13

- 1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F**

0.5/0.5	0.2/0.2		
---------	---------	--	--
- 4. Cooler Temperature(s): 0.5/0.5 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)		✓	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:		✓	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:			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 CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 6/3/23 0929

- 1. Courier: FED EX UPS CLIENT PACE USPS 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 (A B C D E F)
- 4. Cooler Temperature(s): 4.1/2.29 0.5/0.39
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other Plastic Bags
- 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:		<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:			<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)		<u>N/A</u>	Trip Blank Present?		<input checked="" type="checkbox"/>	
			Trip Blank Custody Seals?			<input checked="" type="checkbox"/>

COMMENTS: RCVD containers labeled "FB-05-060223", date/time = 06/02/23 1155.
DMP 6/3/23

Sample Container Count

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

COC Line Item	WGUFU	MeOH (only) SBS DI	VIALS			AMBER GLASS							PLASTIC							OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc												
			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						
				HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9																																
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



July 06, 2023

Mr. Tom Haskins
WSP Golder
10 Al Paul Lane
Suite 103
Merrimack, NH 03054

RE: Project: Bailly Assessment
Pace Project No.: 50345176

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between May 18, 2023 and June 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 - Greensburg

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

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Gabe Dixon, WSP
Ms. Sarah Gilles, WSP Golder
Ms. Danielle Sylvia, WSP Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Bailly Assessment

Pace Project No.: 50345176

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

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

**SAMPLE SUMMARY**

Project: Bailly Assessment

Pace Project No.: 50345176

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50345176001	GAMW-01-051723	Water	05/17/23 09:00	05/18/23 09:25
50345176002	GAMW-01B-051723	Water	05/17/23 10:30	05/18/23 09:25
50345176003	GAMW-02-051723	Water	05/17/23 11:35	05/18/23 09:25
50345176004	GAMW-03-051723	Water	05/17/23 13:05	05/18/23 09:25
50345176005	GAMW-04-051723	Water	05/17/23 14:35	05/18/23 09:25
50345343001	GAMW-06-051823	Water	05/18/23 10:50	05/19/23 09:35
50345343002	GAMW-07-051823	Water	05/18/23 12:50	05/19/23 09:35
50345343003	GAMW-08-051823	Water	05/18/23 14:20	05/19/23 09:35
50345343004	FB-01-051823	Water	05/18/23 15:00	05/19/23 09:35
50345452001	GAMW-08B-051923	Water	05/19/23 10:20	05/20/23 09:05
50345452002	GAMW-10-051923	Water	05/19/23 13:20	05/20/23 09:05
50345452003	GAMW-10-051923 MS	Water	05/19/23 13:20	05/20/23 09:05
50345452004	GAMW-10-051923 MSD	Water	05/19/23 13:20	05/20/23 09:05
50345622001	GAMW-11-052223	Water	05/22/23 08:55	05/23/23 09:20
50345622002	GAMW-11B-052223	Water	05/22/23 11:10	05/23/23 09:20
50345622003	GAMW-11C-052223	Water	05/22/23 12:35	05/23/23 09:20
50345622004	FD-01-052223	Water	05/22/23 12:00	05/23/23 09:20
50345664001	GAMW-12R-052323	Water	05/23/23 09:20	05/24/23 09:35
50345664002	GAMW-13-052323	Water	05/23/23 10:50	05/24/23 09:35
50345664003	GAMW-14-052323	Water	05/23/23 12:15	05/24/23 09:35
50345664004	GAMW-16-052323	Water	05/23/23 13:35	05/24/23 09:35
50345664005	FD-02	Water	05/23/23 12:00	05/24/23 09:35
50345793001	MW-105-052423	Water	05/24/23 09:40	05/25/23 09:30
50345793002	MW-112-052423	Water	05/24/23 11:15	05/25/23 09:30
50345793003	GAMW-17-052423	Water	05/24/23 12:50	05/25/23 09:30
50345793004	GAMW-17B-052423	Water	05/24/23 14:30	05/25/23 09:30
50345793005	FB-02-052423	Water	05/24/23 14:45	05/25/23 09:30
50345922001	GAMW-18-052523	Water	05/25/23 11:35	05/26/23 09:15
50346173001	GAMW-19-053123	Water	05/31/23 12:35	06/01/23 09:05
50346173002	GAMW-20-053123	Water	05/31/23 14:40	06/01/23 09:05
50346173003	FD-05-053123	Water	05/31/23 12:00	06/01/23 09:05
50346298001	GAMW-21-060123	Water	06/01/23 11:50	06/02/23 09:00
50346298002	GAMW-22-060123	Water	06/01/23 14:05	06/02/23 09:00
50346298003	GAMW-22B-060123	Water	06/01/23 15:20	06/02/23 09:00
50346298004	GAMW-22B-060123 MS	Water	06/01/23 15:20	06/02/23 09:00
50346298005	GAMW-22B-060123 MSD	Water	06/01/23 15:20	06/02/23 09:00
50346390001	GAMW-23-060223	Water	06/02/23 10:25	06/03/23 08:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Baily Assessment
Pace Project No.: 50345176

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50346390002	GAMW-23B-060223	Water	06/02/23 11:40	06/03/23 08:55
50346390003	FB-05-060223	Water	06/02/23 11:55	06/03/23 08:55

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50345176

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50345176001	GAMW-01-051723	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345176002	GAMW-01B-051723	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345176003	GAMW-02-051723	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345176004	GAMW-03-051723	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345176005	GAMW-04-051723	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345343001	GAMW-06-051823	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345343002	GAMW-07-051823	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345343003	GAMW-08-051823	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345343004	FB-01-051823	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345452001	GAMW-08B-051923	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345452002	GAMW-10-051923	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345452003	GAMW-10-051923 MS	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50345452004	GAMW-10-051923 MSD	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50345176

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50345622001	GAMW-11-052223	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345622002	GAMW-11B-052223	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345622003	GAMW-11C-052223	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345622004	FD-01-052223	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345664001	GAMW-12R-052323	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345664002	GAMW-13-052323	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345664003	GAMW-14-052323	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345664004	GAMW-16-052323	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345664005	FD-02	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345793001	MW-105-052423	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345793002	MW-112-052423	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345793003	GAMW-17-052423	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50345793004	GAMW-17B-052423	EPA 903.1	JLJ	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Baily Assessment

Pace Project No.: 50345176

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50345793005	FB-02-052423	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
50345922001	GAMW-18-052523	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50346173001	GAMW-19-053123	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JLJ	1	PASI-PA
50346173002	GAMW-20-053123	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50346173003	FD-05-053123	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50346298001	GAMW-21-060123	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
50346298002	GAMW-22-060123	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
50346298003	GAMW-22B-060123	Total Radium Calculation	LAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50346298004	GAMW-22B-060123 MS	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
50346298005	GAMW-22B-060123 MSD	Total Radium Calculation	LAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50346390001	GAMW-23-060223	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
50346390002	GAMW-23B-060223	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
50346390003	FB-05-060223	Total Radium Calculation	LAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Baily Assessment
Pace Project No.: 50345176

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50345176001	GAMW-01-051723					
EPA 903.1	Radium-226	-0.170 ± 0.623 (1.35) C:NA T:92%	pCi/L		06/16/23 17:25	
EPA 904.0	Radium-228	0.522 ± 0.375 (0.716) C:81% T:75%	pCi/L		06/13/23 12:08	
Total Radium Calculation	Total Radium	0.522 ± 0.998 (2.07)	pCi/L		06/16/23 18:17	
50345176002	GAMW-01B-051723					
EPA 903.1	Radium-226	0.000 ± 0.519 (1.12) C:NA T:90%	pCi/L		06/16/23 17:38	
EPA 904.0	Radium-228	0.394 ± 0.415 (0.858) C:72% T:73%	pCi/L		06/13/23 12:07	
Total Radium Calculation	Total Radium	0.394 ± 0.934 (1.98)	pCi/L		06/16/23 18:17	
50345176003	GAMW-02-051723					
EPA 903.1	Radium-226	0.000 ± 0.409 (0.917) C:NA T:88%	pCi/L		06/16/23 17:38	
EPA 904.0	Radium-228	0.768 ± 0.393 (0.671) C:80% T:83%	pCi/L		06/13/23 12:07	
Total Radium Calculation	Total Radium	0.768 ± 0.802 (1.59)	pCi/L		06/16/23 18:17	
50345176004	GAMW-03-051723					
EPA 903.1	Radium-226	-0.339 ± 0.409 (1.11) C:NA T:94%	pCi/L		06/16/23 17:38	
EPA 904.0	Radium-228	0.192 ± 0.417 (0.921) C:84% T:75%	pCi/L		06/13/23 12:07	
Total Radium Calculation	Total Radium	0.192 ± 0.826 (2.03)	pCi/L		06/16/23 18:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50345176005	GAMW-04-051723					
EPA 903.1	Radium-226	0.0855 ± 0.503 (1.03) C:NA T:90%	pCi/L		06/16/23 17:38	
EPA 904.0	Radium-228	0.490 ± 0.438 (0.895) C:87% T:72%	pCi/L		06/13/23 12:07	
Total Radium Calculation	Total Radium	0.576 ± 0.941 (1.93)	pCi/L		06/16/23 18:17	
50345343001	GAMW-06-051823					
EPA 903.1	Radium-226	0.164 ± 0.509 (0.985) C:NA T:96%	pCi/L		06/18/23 15:36	
EPA 904.0	Radium-228	0.521 ± 0.372 (0.709) C:79% T:77%	pCi/L		06/13/23 15:13	
Total Radium Calculation	Total Radium	0.685 ± 0.881 (1.69)	pCi/L		06/19/23 09:35	
50345343002	GAMW-07-051823					
EPA 903.1	Radium-226	0.000 ± 0.357 (0.727) C:NA T:95%	pCi/L		06/18/23 15:06	
EPA 904.0	Radium-228	0.105 ± 0.278 (0.623) C:82% T:89%	pCi/L		06/13/23 15:13	
Total Radium Calculation	Total Radium	0.105 ± 0.635 (1.35)	pCi/L		06/19/23 09:35	
50345343003	GAMW-08-051823					
EPA 903.1	Radium-226	-0.289 ± 0.440 (1.04) C:NA T:90%	pCi/L		06/18/23 15:35	
EPA 904.0	Radium-228	0.694 ± 0.395 (0.709) C:81% T:79%	pCi/L		06/13/23 15:13	
Total Radium Calculation	Total Radium	0.694 ± 0.835 (1.75)	pCi/L		06/19/23 09:35	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50345343004	FB-01-051823					
EPA 903.1	Radium-226	-0.678 ± 0.450 (1.25) C:NA T:101%	pCi/L		06/18/23 15:47	
EPA 904.0	Radium-228	0.200 ± 0.346 (0.755) C:83% T:79%	pCi/L		06/13/23 15:13	
Total Radium Calculation	Total Radium	0.200 ± 0.796 (2.01)	pCi/L		06/19/23 09:35	
50345452001	GAMW-08B-051923					
EPA 903.1	Radium-226	0.145 ± 0.332 (0.535) C:NA T:96%	pCi/L		06/19/23 16:04	
EPA 904.0	Radium-228	0.594 ± 0.324 (0.572) C:85% T:89%	pCi/L		06/15/23 15:43	
Total Radium Calculation	Total Radium	0.739 ± 0.656 (1.11)	pCi/L		06/20/23 14:21	
50345452002	GAMW-10-051923					
EPA 903.1	Radium-226	0.000 ± 0.363 (0.743) C:NA T:99%	pCi/L		06/19/23 16:04	
EPA 904.0	Radium-228	0.111 ± 0.315 (0.707) C:82% T:90%	pCi/L		06/15/23 15:43	
Total Radium Calculation	Total Radium	0.111 ± 0.678 (1.45)	pCi/L		06/20/23 14:21	
50345452003	GAMW-10-051923 MS					
EPA 903.1	Radium-226	93.04 %REC ± NA (NA) C:NA T:NA	pCi/L		06/19/23 16:18	
EPA 904.0	Radium-228	75.32 %REC ± NA (NA) C:NA T:NA	pCi/L		06/15/23 15:43	

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50345452004	GAMW-10-051923 MSD					
EPA 903.1	Radium-226	106.10 %REC 13.12RPD ± NA (NA)	pCi/L		06/19/23 16:18	
EPA 904.0	Radium-228	86.07 %REC 13.33RPD ± NA (NA) C:NA T:NA	pCi/L		06/15/23 15:44	
50345622001	GAMW-11-052223					
EPA 903.1	Radium-226	-0.0775 ± 0.354 (0.835) C:NA T:88%	pCi/L		06/20/23 16:01	
EPA 904.0	Radium-228	0.227 ± 0.404 (0.882) C:89% T:79%	pCi/L		06/16/23 15:18	
Total Radium Calculation	Total Radium	0.227 ± 0.758 (1.72)	pCi/L		06/21/23 13:20	
50345622002	GAMW-11B-052223					
EPA 903.1	Radium-226	0.732 ± 0.623 (0.876) C:NA T:88%	pCi/L		06/20/23 16:01	
EPA 904.0	Radium-228	1.38 ± 0.595 (1.01) C:87% T:79%	pCi/L		06/16/23 15:18	
Total Radium Calculation	Total Radium	2.11 ± 1.22 (1.89)	pCi/L		06/21/23 13:20	
50345622003	GAMW-11C-052223					
EPA 903.1	Radium-226	-0.162 ± 0.388 (0.971) C:NA T:89%	pCi/L		06/20/23 16:21	
EPA 904.0	Radium-228	0.00532 ± 0.345 (0.805) C:86% T:77%	pCi/L		06/16/23 15:18	
Total Radium Calculation	Total Radium	0.00532 ± 0.733 (1.78)	pCi/L		06/21/23 13:20	

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50345622004	FD-01-052223					
EPA 903.1	Radium-226	1.36 ± 0.762 (0.790)	pCi/L		06/20/23 16:21	
EPA 904.0	Radium-228	C:NA T:85% 0.810 ± 0.421 (0.725)	pCi/L		06/16/23 15:19	
Total Radium Calculation	Total Radium	C:85% T:75% 2.17 ± 1.18 (1.52)	pCi/L		06/21/23 13:20	
50345664001	GAMW-12R-052323					
EPA 903.1	Radium-226	-0.563 ± 0.691 (1.63) C:NA	pCi/L		06/20/23 16:01	
EPA 904.0	Radium-228	T:78% 0.462 ± 0.332 (0.633)	pCi/L		06/16/23 15:17	
Total Radium Calculation	Total Radium	C:84% T:87% 0.462 ± 1.02 (2.26)	pCi/L		06/21/23 13:20	
50345664002	GAMW-13-052323					
EPA 903.1	Radium-226	0.147 ± 0.409 (0.793)	pCi/L		06/20/23 16:01	
EPA 904.0	Radium-228	C:NA T:89% 0.616 ± 0.371 (0.677)	pCi/L		06/16/23 15:17	
Total Radium Calculation	Total Radium	C:88% T:80% 0.763 ± 0.780 (1.47)	pCi/L		06/21/23 13:20	
50345664003	GAMW-14-052323					
EPA 903.1	Radium-226	-0.0696 ± 0.318 (0.750)	pCi/L		06/20/23 16:01	
EPA 904.0	Radium-228	C:NA T:91% 0.910 ± 0.430 (0.710)	pCi/L		06/16/23 15:17	
Total Radium Calculation	Total Radium	C:88% T:75% 0.910 ± 0.748 (1.46)	pCi/L		06/21/23 13:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50345664004	GAMW-16-052323					
EPA 903.1	Radium-226	0.349 ± 0.412 (0.648) C:NA T:89%	pCi/L		06/20/23 16:01	
EPA 904.0	Radium-228	0.719 ± 0.456 (0.874) C:84% T:84%	pCi/L		06/16/23 15:17	
Total Radium Calculation	Total Radium	1.07 ± 0.868 (1.52)	pCi/L		06/21/23 13:20	
50345664005	FD-02					
EPA 903.1	Radium-226	0.000 ± 0.493 (1.07) C:NA T:82%	pCi/L		06/20/23 16:01	
EPA 904.0	Radium-228	1.08 ± 0.533 (0.945) C:84% T:76%	pCi/L		06/16/23 15:17	
Total Radium Calculation	Total Radium	1.08 ± 1.03 (2.02)	pCi/L		06/21/23 13:20	
50345793001	MW-105-052423					
EPA 903.1	Radium-226	0.164 ± 0.395 (0.763) C:NA T:91%	pCi/L		06/21/23 13:01	
EPA 904.0	Radium-228	0.614 ± 0.374 (0.698) C:84% T:86%	pCi/L		06/19/23 17:13	
Total Radium Calculation	Total Radium	0.778 ± 0.769 (1.46)	pCi/L		06/22/23 08:30	
50345793002	MW-112-052423					
EPA 903.1	Radium-226	0.000 ± 0.327 (0.733) C:NA T:98%	pCi/L		06/21/23 13:01	
EPA 904.0	Radium-228	0.614 ± 0.373 (0.698) C:87% T:87%	pCi/L		06/19/23 17:13	
Total Radium Calculation	Total Radium	0.614 ± 0.700 (1.43)	pCi/L		06/22/23 08:30	

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SUMMARY OF DETECTION

Project: Baily Assessment
 Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50345793003	GAMW-17-052423					
EPA 903.1	Radium-226	0.414 ± 0.587 (0.994)	pCi/L		06/21/23 13:01	
EPA 904.0	Radium-228	0.688 ± 0.440 (0.836) C:84% T:78%	pCi/L		06/19/23 17:13	
Total Radium Calculation	Total Radium	1.10 ± 1.03 (1.83)	pCi/L		06/22/23 08:30	
50345793004	GAMW-17B-052423					
EPA 903.1	Radium-226	-0.359 ± 0.509 (1.20) C:NA T:90%	pCi/L		06/21/23 13:01	
EPA 904.0	Radium-228	0.772 ± 0.456 (0.853) C:87% T:77%	pCi/L		06/19/23 17:13	
Total Radium Calculation	Total Radium	0.772 ± 0.965 (2.05)	pCi/L		06/22/23 08:30	
50345793005	FB-02-052423					
EPA 903.1	Radium-226	0.135 ± 0.325 (0.628)	pCi/L		06/21/23 13:01	
EPA 904.0	Radium-228	C:NA T:95% -0.0128 ± 0.298 (0.696) C:86% T:88%	pCi/L		06/19/23 17:13	
Total Radium Calculation	Total Radium	0.135 ± 0.623 (1.32)	pCi/L		06/22/23 08:30	
50345922001	GAMW-18-052523					
EPA 903.1	Radium-226	0.340 ± 0.472 (0.788)	pCi/L		06/16/23 16:35	
EPA 904.0	Radium-228	C:NA T:89% 0.684 ± 0.500 (0.988) C:79% T:79%	pCi/L		06/12/23 16:45	
Total Radium Calculation	Total Radium	1.02 ± 0.972 (1.78)	pCi/L		06/16/23 18:10	

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50346173001	GAMW-19-053123					
EPA 903.1	Radium-226	0.000 ± 0.695 (1.41) C:NA T:89%	pCi/L		06/20/23 16:56	
EPA 904.0	Radium-228	0.412 ± 0.383 (0.783) C:80% T:89%	pCi/L		06/16/23 15:26	
Total Radium Calculation	Total Radium	0.412 ± 1.08 (2.19)	pCi/L		06/21/23 13:17	
50346173002	GAMW-20-053123					
EPA 903.1	Radium-226	0.150 ± 0.418 (0.810) C:NA T:87%	pCi/L		06/20/23 16:56	
EPA 904.0	Radium-228	0.0849 ± 0.323 (0.732) C:85% T:87%	pCi/L		06/16/23 15:25	
Total Radium Calculation	Total Radium	0.235 ± 0.741 (1.54)	pCi/L		06/21/23 13:17	
50346173003	FD-05-053123					
EPA 903.1	Radium-226	0.145 ± 0.403 (0.781) C:NA T:95%	pCi/L		06/20/23 17:09	
EPA 904.0	Radium-228	0.356 ± 0.364 (0.752) C:82% T:87%	pCi/L		06/16/23 15:25	
Total Radium Calculation	Total Radium	0.501 ± 0.767 (1.53)	pCi/L		06/21/23 13:17	
50346298001	GAMW-21-060123					
EPA 903.1	Radium-226	0.000 ± 0.273 (0.612) C:NA T:100%	pCi/L		06/27/23 16:19	
EPA 904.0	Radium-228	0.402 ± 0.295 (0.569) C:85% T:89%	pCi/L		06/22/23 11:23	
Total Radium Calculation	Total Radium	0.402 ± 0.568 (1.18)	pCi/L		07/03/23 16:13	

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50346298002						
EPA 903.1	Radium-226	0.115 ± 0.358 (0.693) C:NA T:97%	pCi/L		06/27/23 16:19	
EPA 904.0	Radium-228	0.151 ± 0.241 (0.522) C:85% T:87%	pCi/L		06/22/23 11:24	
Total Radium Calculation	Total Radium	0.266 ± 0.599 (1.22)	pCi/L		07/03/23 16:13	
50346298003						
EPA 903.1	Radium-226	0.000 ± 0.326 (0.677) C:NA T:94%	pCi/L		06/27/23 16:19	
EPA 904.0	Radium-228	0.917 ± 0.386 (0.615) C:87% T:89%	pCi/L		06/22/23 11:24	
Total Radium Calculation	Total Radium	0.917 ± 0.712 (1.29)	pCi/L		07/03/23 16:13	
50346298004						
EPA 903.1	Radium-226	97.81 %REC ± NA (NA) C:NA T:NA	pCi/L		07/03/23 12:23	
EPA 904.0	Radium-228	84.84 %REC ± NA (NA) C:NA T:NA	pCi/L		06/22/23 11:24	
50346298005						
EPA 903.1	Radium-226	90.09 %REC 8.22RPD ± NA (NA) C:NA T:NA	pCi/L		07/03/23 12:23	
EPA 904.0	Radium-228	74.34 %REC 13.18RPD ± NA (NA) C:NA T:NA	pCi/L		06/22/23 11:24	
50346390001						
EPA 903.1	Radium-226	0.165 ± 0.390 (0.722) C:NA T:102%	pCi/L		06/27/23 16:32	

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50345176

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50346390001	GAMW-23-060223					
EPA 904.0	Radium-228	0.380 ± 0.336 (0.679) C:84% T:83%	pCi/L		06/22/23 11:23	
Total Radium Calculation	Total Radium	0.545 ± 0.726 (1.40)	pCi/L		07/03/23 16:13	
50346390002	GAMW-23B-060223					
EPA 903.1	Radium-226	0.136 ± 0.420 (0.814) C:NA T:94%	pCi/L		06/27/23 16:32	
EPA 904.0	Radium-228	0.848 ± 0.393 (0.660) C:83% T:85%	pCi/L		06/22/23 11:23	
Total Radium Calculation	Total Radium	0.984 ± 0.813 (1.47)	pCi/L		07/03/23 16:13	
50346390003	FB-05-060223					
EPA 903.1	Radium-226	0.612 ± 0.504 (0.729) C:NA T:97%	pCi/L		06/27/23 16:32	
EPA 904.0	Radium-228	0.432 ± 0.315 (0.614) C:85% T:90%	pCi/L		06/22/23 14:28	
Total Radium Calculation	Total Radium	1.04 ± 0.819 (1.34)	pCi/L		07/03/23 16:13	

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345176

Method: EPA 903.1

Description: 903.1 Radium 226

Client: NiSource_WSP Golder

Date: July 06, 2023

General Information:

39 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345176

Method: EPA 904.0

Description: 904.0 Radium 228

Client: NiSource_WSP Golder

Date: July 06, 2023

General Information:

39 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50345176

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: NiSource_WSP Golder

Date: July 06, 2023

General Information:

35 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-01-051723 **Lab ID: 50345176001** Collected: 05/17/23 09:00 Received: 05/18/23 09:25 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	-0.170 ± 0.623 (1.35) C:NA T:92%	pCi/L	06/16/23 17:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.522 ± 0.375 (0.716) C:81% T:75%	pCi/L	06/13/23 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.522 ± 0.998 (2.07)	pCi/L	06/16/23 18:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-01B-051723 **Lab ID: 50345176002** Collected: 05/17/23 10:30 Received: 05/18/23 09:25 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	0.000 ± 0.519 (1.12) C:NA T:90%	pCi/L	06/16/23 17:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.394 ± 0.415 (0.858) C:72% T:73%	pCi/L	06/13/23 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.394 ± 0.934 (1.98)	pCi/L	06/16/23 18:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-02-051723 **Lab ID: 50345176003** Collected: 05/17/23 11:35 Received: 05/18/23 09:25 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	0.000 ± 0.409 (0.917) C:NA T:88%	pCi/L	06/16/23 17:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.768 ± 0.393 (0.671) C:80% T:83%	pCi/L	06/13/23 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.768 ± 0.802 (1.59)	pCi/L	06/16/23 18:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-03-051723 **Lab ID: 50345176004** Collected: 05/17/23 13:05 Received: 05/18/23 09:25 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	-0.339 ± 0.409 (1.11) C:NA T:94%	pCi/L	06/16/23 17:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.192 ± 0.417 (0.921) C:84% T:75%	pCi/L	06/13/23 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.192 ± 0.826 (2.03)	pCi/L	06/16/23 18:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-04-051723 **Lab ID: 50345176005** Collected: 05/17/23 14:35 Received: 05/18/23 09:25 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	0.0855 ± 0.503 (1.03) C:NA T:90%	pCi/L	06/16/23 17:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.490 ± 0.438 (0.895) C:87% T:72%	pCi/L	06/13/23 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.576 ± 0.941 (1.93)	pCi/L	06/16/23 18:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-06-051823 **Lab ID: 50345343001** Collected: 05/18/23 10:50 Received: 05/19/23 09:35 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	0.164 ± 0.509 (0.985) C:NA T:96%	pCi/L	06/18/23 15:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.521 ± 0.372 (0.709) C:79% T:77%	pCi/L	06/13/23 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.685 ± 0.881 (1.69)	pCi/L	06/19/23 09:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-07-051823 **Lab ID: 50345343002** Collected: 05/18/23 12:50 Received: 05/19/23 09:35 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	0.000 ± 0.357 (0.727) C:NA T:95%	pCi/L	06/18/23 15:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.105 ± 0.278 (0.623) C:82% T:89%	pCi/L	06/13/23 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.105 ± 0.635 (1.35)	pCi/L	06/19/23 09:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-08-051823 **Lab ID: 50345343003** Collected: 05/18/23 14:20 Received: 05/19/23 09:35 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	-0.289 ± 0.440 (1.04) C:NA T:90%	pCi/L	06/18/23 15:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.694 ± 0.395 (0.709) C:81% T:79%	pCi/L	06/13/23 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.694 ± 0.835 (1.75)	pCi/L	06/19/23 09:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-01-051823 Lab ID: 50345343004 Collected: 05/18/23 15:00 Received: 05/19/23 09:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.678 ± 0.450 (1.25) C:NA T:101%	pCi/L	06/18/23 15:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.200 ± 0.346 (0.755) C:83% T:79%	pCi/L	06/13/23 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.200 ± 0.796 (2.01)	pCi/L	06/19/23 09:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-08B-051923 **Lab ID: 50345452001** Collected: 05/19/23 10:20 Received: 05/20/23 09:05 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	0.145 ± 0.332 (0.535) C:NA T:96%	pCi/L	06/19/23 16:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.594 ± 0.324 (0.572) C:85% T:89%	pCi/L	06/15/23 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.739 ± 0.656 (1.11)	pCi/L	06/20/23 14:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-10-051923 **Lab ID: 50345452002** Collected: 05/19/23 13:20 Received: 05/20/23 09:05 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 ± 0.363 (0.743) C:NA T:99%	pCi/L	06/19/23 16:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.111 ± 0.315 (0.707) C:82% T:90%	pCi/L	06/15/23 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.111 ± 0.678 (1.45)	pCi/L	06/20/23 14:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-10-051923 MS **Lab ID: 50345452003** Collected: 05/19/23 13:20 Received: 05/20/23 09:05 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	93.04 %REC ± NA (NA) C:NA T:NA	pCi/L	06/19/23 16:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	75.32 %REC ± NA (NA) C:NA T:NA	pCi/L	06/15/23 15:43	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-10-051923 MSD **Lab ID: 50345452004** Collected: 05/19/23 13:20 Received: 05/20/23 09:05 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	106.10 %REC 13.12RPD ± NA (NA) C:NA T:NA	pCi/L	06/19/23 16:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	86.07 %REC 13.33RPD ± NA (NA) C:NA T:NA	pCi/L	06/15/23 15:44	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-11-052223 **Lab ID: 50345622001** Collected: 05/22/23 08:55 Received: 05/23/23 09:20 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	-0.0775 ± 0.354 (0.835) C:NA T:88%	pCi/L	06/20/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.227 ± 0.404 (0.882) C:89% T:79%	pCi/L	06/16/23 15:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.227 ± 0.758 (1.72)	pCi/L	06/21/23 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-11B-052223 **Lab ID: 50345622002** Collected: 05/22/23 11:10 Received: 05/23/23 09:20 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	0.732 ± 0.623 (0.876) C:NA T:88%	pCi/L	06/20/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.38 ± 0.595 (1.01) C:87% T:79%	pCi/L	06/16/23 15:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.11 ± 1.22 (1.89)	pCi/L	06/21/23 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-11C-052223 **Lab ID: 50345622003** Collected: 05/22/23 12:35 Received: 05/23/23 09:20 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	-0.162 ± 0.388 (0.971) C:NA T:89%	pCi/L	06/20/23 16:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.00532 ± 0.345 (0.805) C:86% T:77%	pCi/L	06/16/23 15:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.00532 ± 0.733 (1.78)	pCi/L	06/21/23 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: FD-01-052223 **Lab ID: 50345622004** Collected: 05/22/23 12:00 Received: 05/23/23 09:20 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	1.36 ± 0.762 (0.790) C:NA T:85%	pCi/L	06/20/23 16:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.810 ± 0.421 (0.725) C:85% T:75%	pCi/L	06/16/23 15:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.17 ± 1.18 (1.52)	pCi/L	06/21/23 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-12R-052323 **Lab ID: 50345664001** Collected: 05/23/23 09:20 Received: 05/24/23 09:35 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	-0.563 ± 0.691 (1.63) C:NA T:78%	pCi/L	06/20/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.462 ± 0.332 (0.633) C:84% T:87%	pCi/L	06/16/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.462 ± 1.02 (2.26)	pCi/L	06/21/23 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-13-052323 **Lab ID: 50345664002** Collected: 05/23/23 10:50 Received: 05/24/23 09:35 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	0.147 ± 0.409 (0.793) C:NA T:89%	pCi/L	06/20/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.616 ± 0.371 (0.677) C:88% T:80%	pCi/L	06/16/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.763 ± 0.780 (1.47)	pCi/L	06/21/23 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-14-052323 **Lab ID: 50345664003** Collected: 05/23/23 12:15 Received: 05/24/23 09:35 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	-0.0696 ± 0.318 (0.750) C:NA T:91%	pCi/L	06/20/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.910 ± 0.430 (0.710) C:88% T:75%	pCi/L	06/16/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.910 ± 0.748 (1.46)	pCi/L	06/21/23 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-16-052323 **Lab ID: 50345664004** Collected: 05/23/23 13:35 Received: 05/24/23 09:35 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	0.349 ± 0.412 (0.648) C:NA T:89%	pCi/L	06/20/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.719 ± 0.456 (0.874) C:84% T:84%	pCi/L	06/16/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.07 ± 0.868 (1.52)	pCi/L	06/21/23 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: FD-02 **Lab ID: 50345664005** Collected: 05/23/23 12:00 Received: 05/24/23 09:35 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	0.000 ± 0.493 (1.07) C:NA T:82%	pCi/L	06/20/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.08 ± 0.533 (0.945) C:84% T:76%	pCi/L	06/16/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.08 ± 1.03 (2.02)	pCi/L	06/21/23 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-105-052423 Lab ID: 50345793001 Collected: 05/24/23 09:40 Received: 05/25/23 09:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.164 ± 0.395 (0.763) C:NA T:91%	pCi/L	06/21/23 13:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.614 ± 0.374 (0.698) C:84% T:86%	pCi/L	06/19/23 17:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.778 ± 0.769 (1.46)	pCi/L	06/22/23 08:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: MW-112-052423 **Lab ID: 50345793002** Collected: 05/24/23 11:15 Received: 05/25/23 09:30 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 ± 0.327 (0.733) C:NA T:98%	pCi/L	06/21/23 13:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.614 ± 0.373 (0.698) C:87% T:87%	pCi/L	06/19/23 17:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.614 ± 0.700 (1.43)	pCi/L	06/22/23 08:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-17-052423 **Lab ID: 50345793003** Collected: 05/24/23 12:50 Received: 05/25/23 09:30 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	0.414 ± 0.587 (0.994) C:NA T:88%	pCi/L	06/21/23 13:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.688 ± 0.440 (0.836) C:84% T:78%	pCi/L	06/19/23 17:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.10 ± 1.03 (1.83)	pCi/L	06/22/23 08:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-17B-052423 **Lab ID: 50345793004** Collected: 05/24/23 14:30 Received: 05/25/23 09:30 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	-0.359 ± 0.509 (1.20) C:NA T:90%	pCi/L	06/21/23 13:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.772 ± 0.456 (0.853) C:87% T:77%	pCi/L	06/19/23 17:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.772 ± 0.965 (2.05)	pCi/L	06/22/23 08:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: FB-02-052423 **Lab ID: 50345793005** Collected: 05/24/23 14:45 Received: 05/25/23 09:30 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	0.135 ± 0.325 (0.628) C:NA T:95%	pCi/L	06/21/23 13:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.0128 ± 0.298 (0.696) C:86% T:88%	pCi/L	06/19/23 17:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.135 ± 0.623 (1.32)	pCi/L	06/22/23 08:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-18-052523 **Lab ID: 50345922001** Collected: 05/25/23 11:35 Received: 05/26/23 09:15 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	0.340 ± 0.472 (0.788) C:NA T:89%	pCi/L	06/16/23 16:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.684 ± 0.500 (0.988) C:79% T:79%	pCi/L	06/12/23 16:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.02 ± 0.972 (1.78)	pCi/L	06/16/23 18:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-19-053123 **Lab ID: 50346173001** Collected: 05/31/23 12:35 Received: 06/01/23 09:05 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 ± 0.695 (1.41) C:NA T:89%	pCi/L	06/20/23 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.412 ± 0.383 (0.783) C:80% T:89%	pCi/L	06/16/23 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.412 ± 1.08 (2.19)	pCi/L	06/21/23 13:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-20-053123 **Lab ID: 50346173002** Collected: 05/31/23 14:40 Received: 06/01/23 09:05 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	0.150 ± 0.418 (0.810) C:NA T:87%	pCi/L	06/20/23 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.0849 ± 0.323 (0.732) C:85% T:87%	pCi/L	06/16/23 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.235 ± 0.741 (1.54)	pCi/L	06/21/23 13:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: FD-05-053123 **Lab ID: 50346173003** Collected: 05/31/23 12:00 Received: 06/01/23 09:05 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	0.145 ± 0.403 (0.781) C:NA T:95%	pCi/L	06/20/23 17:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.356 ± 0.364 (0.752) C:82% T:87%	pCi/L	06/16/23 15:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.501 ± 0.767 (1.53)	pCi/L	06/21/23 13:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: GAMW-21-060123 Lab ID: 50346298001 Collected: 06/01/23 11:50 Received: 06/02/23 09:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.000 ± 0.273 (0.612) C:NA T:100%	pCi/L	06/27/23 16:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.402 ± 0.295 (0.569) C:85% T:89%	pCi/L	06/22/23 11:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.402 ± 0.568 (1.18)	pCi/L	07/03/23 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-22-060123 **Lab ID: 50346298002** Collected: 06/01/23 14:05 Received: 06/02/23 09:00 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	0.115 ± 0.358 (0.693) C:NA T:97%	pCi/L	06/27/23 16:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.151 ± 0.241 (0.522) C:85% T:87%	pCi/L	06/22/23 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.266 ± 0.599 (1.22)	pCi/L	07/03/23 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-22B-060123 **Lab ID: 50346298003** Collected: 06/01/23 15:20 Received: 06/02/23 09:00 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	0.000 ± 0.326 (0.677) C:NA T:94%	pCi/L	06/27/23 16:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.917 ± 0.386 (0.615) C:87% T:89%	pCi/L	06/22/23 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.917 ± 0.712 (1.29)	pCi/L	07/03/23 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-22B-060123 MS **Lab ID: 50346298004** Collected: 06/01/23 15:20 Received: 06/02/23 09:00 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	97.81 %REC ± NA (NA) C:NA T:NA	pCi/L	07/03/23 12:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	84.84 %REC ± NA (NA) C:NA T:NA	pCi/L	06/22/23 11:24	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-22B-060123 MSD **Lab ID: 50346298005** Collected: 06/01/23 15:20 Received: 06/02/23 09:00 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	90.09 %REC 8.22RPD ± NA (NA) C:NA T:NA	pCi/L	07/03/23 12:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	74.34 %REC 13.18RPD ± NA (NA) C:NA T:NA	pCi/L	06/22/23 11:24	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-23-060223 **Lab ID: 50346390001** Collected: 06/02/23 10:25 Received: 06/03/23 08:55 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	0.165 ± 0.390 (0.722) C:NA T:102%	pCi/L	06/27/23 16:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.380 ± 0.336 (0.679) C:84% T:83%	pCi/L	06/22/23 11:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.545 ± 0.726 (1.40)	pCi/L	07/03/23 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: GAMW-23B-060223 **Lab ID: 50346390002** Collected: 06/02/23 11:40 Received: 06/03/23 08:55 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	0.136 ± 0.420 (0.814) C:NA T:94%	pCi/L	06/27/23 16:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.848 ± 0.393 (0.660) C:83% T:85%	pCi/L	06/22/23 11:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.984 ± 0.813 (1.47)	pCi/L	07/03/23 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

Sample: FB-05-060223 **Lab ID: 50346390003** Collected: 06/02/23 11:55 Received: 06/03/23 08:55 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	0.612 ± 0.504 (0.729) C:NA T:97%	pCi/L	06/27/23 16:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.432 ± 0.315 (0.614) C:85% T:90%	pCi/L	06/22/23 14:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04 ± 0.819 (1.34)	pCi/L	07/03/23 16:13	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch:	592611	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: 50345793001, 50345793002, 50345793003, 50345793004, 50345793005

METHOD BLANK: 2879387 Matrix: Water

Associated Lab Samples: 50345793001, 50345793002, 50345793003, 50345793004, 50345793005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.346 ± 0.322 (0.659) C:86% T:87%	pCi/L	06/19/23 13:13	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch:	592579	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: 50345452001, 50345452002, 50345452003, 50345452004

METHOD BLANK: 2879318 Matrix: Water

Associated Lab Samples: 50345452001, 50345452002, 50345452003, 50345452004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.156 ± 0.265 (0.654) C:90% T:86%	pCi/L	06/15/23 15:42	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 592523

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: 50345922001

METHOD BLANK: 2879206

Matrix: Water

Associated Lab Samples: 50345922001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.261 ± 0.267 (0.542) C:82% T:84%	pCi/L	06/12/23 16:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch:	592597	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: 50345622001, 50345622002, 50345622003, 50345622004, 50345664001, 50345664002, 50345664003, 50345664004, 50345664005

METHOD BLANK: 2879348 Matrix: Water

Associated Lab Samples: 50345622001, 50345622002, 50345622003, 50345622004, 50345664001, 50345664002, 50345664003, 50345664004, 50345664005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.495 ± 0.340 (0.644) C:87% T:87%	pCi/L	06/16/23 15:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 592577

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: 50345452001, 50345452002, 50345452003, 50345452004

METHOD BLANK: 2879316

Matrix: Water

Associated Lab Samples: 50345452001, 50345452002, 50345452003, 50345452004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.230 (0.371) C:NA T:99%	pCi/L	06/19/23 16:04	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 594358

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: 50346298001, 50346298002, 50346298003, 50346298004, 50346298005, 50346390001, 50346390002, 50346390003

METHOD BLANK: 2888871

Matrix: Water

Associated Lab Samples: 50346298001, 50346298002, 50346298003, 50346298004, 50346298005, 50346390001, 50346390002, 50346390003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.318 ± 0.328 (0.679) C:78% T:93%	pCi/L	06/22/23 11:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch:	594357	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: 50346298001, 50346298002, 50346298003, 50346298004, 50346298005, 50346390001, 50346390002, 50346390003

METHOD BLANK: 2888870 Matrix: Water

Associated Lab Samples: 50346298001, 50346298002, 50346298003, 50346298004, 50346298005, 50346390001, 50346390002, 50346390003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0477 ± 0.218 (0.443) C:NA T:96%	pCi/L	06/27/23 16:19	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 592610

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: 50345793001, 50345793002, 50345793003, 50345793004, 50345793005

METHOD BLANK: 2879385

Matrix: Water

Associated Lab Samples: 50345793001, 50345793002, 50345793003, 50345793004, 50345793005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.284 ± 0.297 (0.418) C:NA T:93%	pCi/L	06/21/23 12:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 592606

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: 50346173001, 50346173002, 50346173003

METHOD BLANK: 2879376

Matrix: Water

Associated Lab Samples: 50346173001, 50346173002, 50346173003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.967 ± 0.438 (0.719) C:85% T:87%	pCi/L	06/16/23 15:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 592553

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: 50345343001, 50345343002, 50345343003, 50345343004

METHOD BLANK: 2879278

Matrix: Water

Associated Lab Samples: 50345343001, 50345343002, 50345343003, 50345343004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.391 ± 0.350 (0.708) C:87% T:83%	pCi/L	06/13/23 15:17	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 592605

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: 50346173001, 50346173002, 50346173003

METHOD BLANK: 2879375

Matrix: Water

Associated Lab Samples: 50346173001, 50346173002, 50346173003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.115 ± 0.276 (0.533) C:NA T:93%	pCi/L	06/20/23 16:56	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 592552

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: 50345343001, 50345343002, 50345343003, 50345343004

METHOD BLANK: 2879276

Matrix: Water

Associated Lab Samples: 50345343001, 50345343002, 50345343003, 50345343004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.348 ± 0.493 (0.835) C:NA T:93%	pCi/L	06/18/23 15:35	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 592521

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: 50345922001

METHOD BLANK: 2879205

Matrix: Water

Associated Lab Samples: 50345922001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.340 (0.548) C:NA T:92%	pCi/L	06/16/23 15:59	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 591555

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: 50345176001, 50345176002, 50345176003, 50345176004, 50345176005

METHOD BLANK: 2874437

Matrix: Water

Associated Lab Samples: 50345176001, 50345176002, 50345176003, 50345176004, 50345176005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.617 ± 0.378 (0.692) C:81% T:77%	pCi/L	06/13/23 12:08	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch: 591552

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: 50345176001, 50345176002, 50345176003, 50345176004, 50345176005

METHOD BLANK: 2874435

Matrix: Water

Associated Lab Samples: 50345176001, 50345176002, 50345176003, 50345176004, 50345176005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.330 (0.533) C:NA T:91%	pCi/L	06/16/23 17:02	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50345176

QC Batch:	592596	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: 50345622001, 50345622002, 50345622003, 50345622004, 50345664001, 50345664002, 50345664003, 50345664004, 50345664005

METHOD BLANK:	2879347	Matrix:	Water
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Associated Lab Samples: 50345622001, 50345622002, 50345622003, 50345622004, 50345664001, 50345664002, 50345664003, 50345664004, 50345664005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0565 ± 0.258 (0.524) C:NA T:87%	pCi/L	06/20/23 16:01	

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QUALIFIERS

Project: Bailly Assessment

Pace Project No.: 50345176

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50345176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50345176001	GAMW-01-051723	EPA 903.1	591552		
50345176002	GAMW-01B-051723	EPA 903.1	591552		
50345176003	GAMW-02-051723	EPA 903.1	591552		
50345176004	GAMW-03-051723	EPA 903.1	591552		
50345176005	GAMW-04-051723	EPA 903.1	591552		
50345343001	GAMW-06-051823	EPA 903.1	592552		
50345343002	GAMW-07-051823	EPA 903.1	592552		
50345343003	GAMW-08-051823	EPA 903.1	592552		
50345343004	FB-01-051823	EPA 903.1	592552		
50345452001	GAMW-08B-051923	EPA 903.1	592577		
50345452002	GAMW-10-051923	EPA 903.1	592577		
50345452003	GAMW-10-051923 MS	EPA 903.1	592577		
50345452004	GAMW-10-051923 MSD	EPA 903.1	592577		
50345622001	GAMW-11-052223	EPA 903.1	592596		
50345622002	GAMW-11B-052223	EPA 903.1	592596		
50345622003	GAMW-11C-052223	EPA 903.1	592596		
50345622004	FD-01-052223	EPA 903.1	592596		
50345664001	GAMW-12R-052323	EPA 903.1	592596		
50345664002	GAMW-13-052323	EPA 903.1	592596		
50345664003	GAMW-14-052323	EPA 903.1	592596		
50345664004	GAMW-16-052323	EPA 903.1	592596		
50345664005	FD-02	EPA 903.1	592596		
50345793001	MW-105-052423	EPA 903.1	592610		
50345793002	MW-112-052423	EPA 903.1	592610		
50345793003	GAMW-17-052423	EPA 903.1	592610		
50345793004	GAMW-17B-052423	EPA 903.1	592610		
50345793005	FB-02-052423	EPA 903.1	592610		
50345922001	GAMW-18-052523	EPA 903.1	592521		
50346173001	GAMW-19-053123	EPA 903.1	592605		
50346173002	GAMW-20-053123	EPA 903.1	592605		
50346173003	FD-05-053123	EPA 903.1	592605		
50346298001	GAMW-21-060123	EPA 903.1	594357		
50346298002	GAMW-22-060123	EPA 903.1	594357		
50346298003	GAMW-22B-060123	EPA 903.1	594357		
50346298004	GAMW-22B-060123 MS	EPA 903.1	594357		
50346298005	GAMW-22B-060123 MSD	EPA 903.1	594357		
50346390001	GAMW-23-060223	EPA 903.1	594357		
50346390002	GAMW-23B-060223	EPA 903.1	594357		
50346390003	FB-05-060223	EPA 903.1	594357		
50345176001	GAMW-01-051723	EPA 904.0	591555		
50345176002	GAMW-01B-051723	EPA 904.0	591555		
50345176003	GAMW-02-051723	EPA 904.0	591555		
50345176004	GAMW-03-051723	EPA 904.0	591555		
50345176005	GAMW-04-051723	EPA 904.0	591555		

REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Bailly Assessment

Pace Project No.: 50345176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50345343001	GAMW-06-051823	EPA 904.0	592553		
50345343002	GAMW-07-051823	EPA 904.0	592553		
50345343003	GAMW-08-051823	EPA 904.0	592553		
50345343004	FB-01-051823	EPA 904.0	592553		
50345452001	GAMW-08B-051923	EPA 904.0	592579		
50345452002	GAMW-10-051923	EPA 904.0	592579		
50345452003	GAMW-10-051923 MS	EPA 904.0	592579		
50345452004	GAMW-10-051923 MSD	EPA 904.0	592579		
50345622001	GAMW-11-052223	EPA 904.0	592597		
50345622002	GAMW-11B-052223	EPA 904.0	592597		
50345622003	GAMW-11C-052223	EPA 904.0	592597		
50345622004	FD-01-052223	EPA 904.0	592597		
50345664001	GAMW-12R-052323	EPA 904.0	592597		
50345664002	GAMW-13-052323	EPA 904.0	592597		
50345664003	GAMW-14-052323	EPA 904.0	592597		
50345664004	GAMW-16-052323	EPA 904.0	592597		
50345664005	FD-02	EPA 904.0	592597		
50345793001	MW-105-052423	EPA 904.0	592611		
50345793002	MW-112-052423	EPA 904.0	592611		
50345793003	GAMW-17-052423	EPA 904.0	592611		
50345793004	GAMW-17B-052423	EPA 904.0	592611		
50345793005	FB-02-052423	EPA 904.0	592611		
50345922001	GAMW-18-052523	EPA 904.0	592523		
50346173001	GAMW-19-053123	EPA 904.0	592606		
50346173002	GAMW-20-053123	EPA 904.0	592606		
50346173003	FD-05-053123	EPA 904.0	592606		
50346298001	GAMW-21-060123	EPA 904.0	594358		
50346298002	GAMW-22-060123	EPA 904.0	594358		
50346298003	GAMW-22B-060123	EPA 904.0	594358		
50346298004	GAMW-22B-060123 MS	EPA 904.0	594358		
50346298005	GAMW-22B-060123 MSD	EPA 904.0	594358		
50346390001	GAMW-23-060223	EPA 904.0	594358		
50346390002	GAMW-23B-060223	EPA 904.0	594358		
50346390003	FB-05-060223	EPA 904.0	594358		
50345176001	GAMW-01-051723	Total Radium Calculation	595624		
50345176002	GAMW-01B-051723	Total Radium Calculation	595624		
50345176003	GAMW-02-051723	Total Radium Calculation	595624		
50345176004	GAMW-03-051723	Total Radium Calculation	595624		
50345176005	GAMW-04-051723	Total Radium Calculation	595624		
50345343001	GAMW-06-051823	Total Radium Calculation	595799		
50345343002	GAMW-07-051823	Total Radium Calculation	595799		
50345343003	GAMW-08-051823	Total Radium Calculation	595799		
50345343004	FB-01-051823	Total Radium Calculation	595799		
50345452001	GAMW-08B-051923	Total Radium Calculation	596242		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50345176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50345452002	GAMW-10-051923	Total Radium Calculation	596242		
50345622001	GAMW-11-052223	Total Radium Calculation	596581		
50345622002	GAMW-11B-052223	Total Radium Calculation	596581		
50345622003	GAMW-11C-052223	Total Radium Calculation	596581		
50345622004	FD-01-052223	Total Radium Calculation	596581		
50345664001	GAMW-12R-052323	Total Radium Calculation	596581		
50345664002	GAMW-13-052323	Total Radium Calculation	596581		
50345664003	GAMW-14-052323	Total Radium Calculation	596581		
50345664004	GAMW-16-052323	Total Radium Calculation	596581		
50345664005	FD-02	Total Radium Calculation	596581		
50345793001	MW-105-052423	Total Radium Calculation	596764		
50345793002	MW-112-052423	Total Radium Calculation	596764		
50345793003	GAMW-17-052423	Total Radium Calculation	596764		
50345793004	GAMW-17B-052423	Total Radium Calculation	596764		
50345793005	FB-02-052423	Total Radium Calculation	596764		
50345922001	GAMW-18-052523	Total Radium Calculation	595623		
50346173001	GAMW-19-053123	Total Radium Calculation	596578		
50346173002	GAMW-20-053123	Total Radium Calculation	596578		
50346173003	FD-05-053123	Total Radium Calculation	596578		
50346298001	GAMW-21-060123	Total Radium Calculation	599168		
50346298002	GAMW-22-060123	Total Radium Calculation	599168		
50346298003	GAMW-22B-060123	Total Radium Calculation	599168		
50346390001	GAMW-23-060223	Total Radium Calculation	599168		
50346390002	GAMW-23B-060223	Total Radium Calculation	599168		
50346390003	FB-05-060223	Total Radium Calculation	599168		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request I

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields m

WO#: 50345176



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company NiSource_WSP		Report To Tom Haskins		Attention: Jeff Loewe U126177	
Address 670 North Commercial Street Manchester, NH 03101		Copy To Danielle Sylvia, Gave Dixon		Company Name NiSource	
Email Thomas.Haskins@golder.com		Purchase Order # PO21520		Address	
Phone (603)782-2433 Fax		Project Name Bailly Assessment		Pace Quote	
Requested Due Date 10 day TAT		Project # 31404789.008		Pace Project Manager tina.sayer@pacelabs.com	
				Pace Profile # 9046-1	

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							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																																			
						DATE	TIME	DATE	TIME																																														
1	GAMW-01-051723	WT	G	WT	G			5/17/23	0900	2	2																																												
2	GAMW-01B-051723	WT	G	WT	G			5/17/23	1030	2	2																																												
3	GAMW-02-051723	WT	G	WT	G			5/17/23	1135	2	2																																												
4	GAMW-03-051723	WT	G	WT	G			5/17/23	1305	2	2																																												
5	GAMW-04-051723	WT	G	WT	G			5/17/23	1435	2	2																																												
6	[REDACTED]																																																						
7	[REDACTED]																																																						
8	[REDACTED]																																																						
9	[REDACTED]																																																						
10	[REDACTED]																																																						
11	[REDACTED]																																																						
12	[REDACTED]																																																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
[REDACTED]	<i>[Signature]</i> / WSP	5/17/23	1700	Fed Ex							0.7			
[REDACTED]	Fed Ex			WSP	5/18/23	925	0.4	Y	Y	Y				
*Sub RadChem to Pace PA.														

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed cooler (Y/N)	Samples intact (of N)
PRINT Name of SAMPLER:	<i>[Signature]</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed: 5/17/23			



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: WS 5/18/23 1035

1. Courier: FED EX UPS CLIENT PACE USPS 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** **A B C D E F**

4. Cooler Temperature(s): 10/10.7 10.7/10.4 _____
 (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)		<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:		<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)	<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)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS:

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

COC Line Item	WGUFU	VIALS									AMBER GLASS						PLASTIC						OTHER				Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9												
		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											
																																	MeOH (only)	SBS	DI								
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		
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	Syringe Kit	LL Cr+6 sampling kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	R	Terracore Kit
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	SP5T	120mL Coliform Sodium Thiosulfate
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	GN	General Container
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	U	Summa Can (air sample)
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WT	Water
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	SL	Solid Solid
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	OL	Oil
						NAL	Non-aqueous liquid
						WP	Wipe



WO#: 50345343



quest Document

nt fields must be completed accurately.

Section A

Section B

Required Client Information:

Required Project Information:

Invoice Information:

Company	NiSource WSP	Report To	Tom Haskins	Attention	Jeff Loewe U126177
Address	670 North Commercial Street	Copy To	Danielle Sylvia, Gave Dixon	Company Name	NiSource
Manchester, NH 03101				Address	
Email	Thomas_Haskins@golder.com	Purchase Order #	PO21520	Pace Quote	
Phone	(603)782-2433 Fax	Project Name	Bailey Assessment	Pace Project Manager	tina.sayer@pacelabs.com,
Requested Due Date	10 day TAT	Project #	31404789.008	Pace Profile #	9046-1

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 Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)							
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other																					
				DATE	TIME	DATE	TIME																															
1	GAMW-06-051823	WTB		5/18/23	1050			2	2																													001
2	GAMW-07-051823	WTB		5/18/23	1250			2	2																											002		
3	GAMW-08-051823	WTB		5/18/23	1420			2	2																											003		
4	FB-01-051823	WTB		5/18/23	1500			2	2																											004		
5	[REDACTED]																																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[Signature] WSP	5/18/23	1700	FE [Signature]	5/19/23	0935	1.1 Y Y Y

*Sub RadChem to Pace PA.

SAMPLER NAME AND SIGNATURE		TEMP in C
PRINT Name of SAMPLER: R. SUDANA		Received on
SIGNATURE of SAMPLER: [Signature]	DATE Signed: 5/18/23	Ice (Y/N)

- Received on
- Ice (Y/N)
- Custody Seal (Y/N)
- Sealed (Y/N)
- Cover (Y/N)
- Cover (Y/N)
- 84
- Samples Intact (Y/N)
- 107



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 5/19/23 1230

- 1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F
- 4. Cooler Temperature(s): 1.3/1.1
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

- 5. Packing Material: Bubble Wrap Bubble Bags
 None Other Plastic Bag
- 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:		<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:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<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)		<u>N/A</u>	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	WGUFU	MeOH (only) SBS DI	VIALS			AMBER GLASS					PLASTIC								OTHER			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ Zn Black NaOH/Zn Ac >9														
			DG9H	VG9H	VGA 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								
1														2																						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	Syringe Kit	LL Cr+6 sampling kit
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 unpreserved 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 unpreserved plastic	GN	General Container
WGKU	8oz unpreserved 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 unpreserved 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 unpreserved 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		

WO#: 50345452



AIN-OF-CUSTODY / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:
 Company NiSource_WSP
 Address 670 North Commercial Street
 Manchester, NH 03101
 Email Thomas_Haskins@golder.com
 Phone (603)782-2433 Fax
 Requested Due Date 10 day TAT

Section B

Required Project Information:
 Report To Tom Haskins
 Copy To Danielle Sylvia, Gave Dixon
 Purchase Order # PO21520
 Project Name Baily Assessment
 Project # 31404789.008

Section C

Invoice Information:
 Attention Jeff Loewe U126177
 Company Name NiSource
 Address
 Pace Quote
 Pace Project Manager tina.sayer@pacelabs.com
 Pace Profile # 9046-1

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 SI 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							Y/N	Analyses Test	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)				
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other																
						DATE	TIME	DATE	TIME																												
1	ENAMW-088-051923			NT	G			5/19/23	1020	2	2																										
2	ENAMW-10-051923			NT	G			5/19/23	1320	2	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		
	[Signature] / USP	5/19/23	1000	Fed ex					
	Fed ex	5-19-23	0905	Maxine Winkler	5-19-23	0905	2.6	Y	Y
*Sub RadChem to PACO PA.									

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: [Signature]
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 5/19/23

TEMP in C
 Received on ice (Y/N)
 Custody Sealed (Y/N)
 Sample Intact (Y/N)

MS-01 / MSD-01



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/20/23 1127-MW

1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F

4. Cooler Temperature(s): 2.6 | 2.6
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

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

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:		<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:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<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:

Sample Container Count

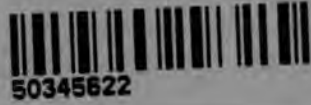
** Place a RED dot on containers
that are out of conformance **

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																2																			↓
2																6																			
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	Syringe Kit	LL Cr+6 sampling kit			
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 unpreserved 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 unpreserved plastic	GN	General Container			
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can (air sample)			
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water			
JGFU	4oz unpreserved 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 unpreserved 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					

WO#: 50345622



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: Of

Section A

Section C

Required Client Information:

Required Project Information:

Invoice Information:

Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177
Address: 670 North Commercial Street Manchester, NH 03101	Copy To: Danielle Sylvia, Gave Dixon	Company Name: NiSource
Email: Thomas_Haskins@golder.com	Purchase Order #: PO21520	Address:
Phone: (603)782-2433 Fax:	Project Name: Bailly Assessment	Pace Quote:
Requested Due Date: 10 day TAT	Project #: 31404789.008	Pace Project Manager: tina.sayer@pacelabs.com,
		Pace Profile #: 9046-1

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	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)												
						START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	Y	N	Y		N											
						DATE	TIME			DATE	TIME																							
1	GNAMW-11-052223			WT	G		5/22/23	0855	2			2																						
2	GNAMW-11B-052223			WT	G		5/22/23	1110	2			2																						
3	GNAMW-11C-052223			WT	G		5/22/23	1235	2			2																						
4	FD-01-052223			WT	G		5/22/23	1200	2			2																						
5	[REDACTED]																																	
6	[REDACTED]																																	
7	[REDACTED]																																	
8	[REDACTED]																																	
9	[REDACTED]																																	
10	[REDACTED]																																	
11	[REDACTED]																																	
12	[REDACTED]																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
[REDACTED]	J. J. [Signature] / NiSource	5/22/23	1:00	Fedex					
[REDACTED]	[Signature] / Fedex	5/23/23	9:20	[Signature]	5/23/23	9:20	2.1	Y	Y
[REDACTED]							2.8		

*Sub RadChem to PACS PA.

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: R. Sidman
SIGNATURE of SAMPLER: [Signature]
DATE Signed: 5/22/23



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/23/23 18:27 JG

- 1. Courier: FED EX UPS CLIENT PACE USPS 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 **A B C D E F**
- 4. Cooler Temperature(s): 07/0.8 1.0/1.1
(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. 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"/>
Short Hold Time Analysis (48 hours or less)? Analysis: <u>Bad 226/228</u>	<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>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
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>
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	WGFU	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																2																WT	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9	
2																2																WT					
3																2																	WT				
4																2																	WT				
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					

Container Codes

Glass			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass

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



CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

WO#: 50345793



Section A Required Client Information: Company: NiSource WSP Address: 670 North Commercial Street Manchester, NH 03101 Email: Thomas Haskins@golder.com Phone: (603)782-2433 Fax: Requested Due Date: 10 day TAT	Section B Required Project Information: Report To: Tom Haskins Copy To: Danielle Sylvia, Gave Dixon Purchase Order #: PO21520 Project Name: Bailey Assessment Project #: 31404789.008	Section C Invoice Information: Attention: Jeff Loewe U126177 Company Name: NiSource Address: Pace Quote: Pace Project Manager: tina.sayer@pacelabs.com, Pace Profile #: 9046-1
--	--	--

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	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives							Analyses Test Y/N	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)
				START DATE TIME	END DATE TIME	Unpreserved	H2SO4		HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N		Y/N	Y/N	
1	MW-105-052422	WT G		5/24/23	0940	2		2									X		
2	MW-112-052423	WT G		5/24/23	1115	2		2									X		001
3	GAMW-17-052423	WT G		5/24/23	1250	2		2									X		002
4	GAMW-17B-052423	WT G		5/24/23	1430	2		2									X		003
5	FB-02-052423	WT G		5/24/23	1445	2		2									X		004
6	[Redacted]																		005
7	[Redacted]																		
8	[Redacted]																		
9	[Redacted]																		
10	[Redacted]																		
11	[Redacted]																		
12	[Redacted]																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
[Redacted]	[Signature] / WSP	5/24/23	1:00	Feder					
[Redacted]	Feder	5-25-23	1:30	[Signature]	5-25-23	9:30	0.6	y	y y
[Redacted]							0.6		

*Sub RadChem to Pace PA.

SAMPLER NAME AND SIGNATURE		TEMP in C Received on Ice (Y/N) Custody Sealed (Y/N) Cooled (Y/N) Page 3 of 107 Samples Intact (Y/N)
PRINT Name of SAMPLER:	[Signature]	
SIGNATURE of SAMPLER:	[Signature]	



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 5-25-23 11:18

1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F
4. Cooler Temperature(s): 0.6/0.6 0.6/0.6
 (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. Circle:	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	<u>HNO3 (<2)</u> 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"/>		<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab			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?	Present	Absent	No VOA Vials Sent
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details			<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)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

Sample Container Count

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

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc
Red	Yellow	Green	Black
HNO3 Δ	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

COC Line Item	WGFU	MeOH (only) SBS DI	VIALS					AMBER GLASS					PLASTIC							OTHER			Matrix								
			DG9H	VG9H	VOA VIAL HS (>8mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S		BP3B	BP3Z	CG3H	CG3F	Syringe Kit			
1		R													2																

Container Codes

Glass

Plastic

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
VGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
VGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
GFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
G1H	1L HCl clear glass	AG3U	250mL unpres amber glass
G1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass

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



CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

WO#: 50345922

50345922

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: NiSource_WSP		Report To: Tom Haskins		Attention: Jeff Loewe U126177	
Address: 670 North Commercial Street		Copy To: Danielle Sylvia, Gave Dixon		Company Name: NiSource	
Manchester, NH 03101		Purchase Order #: PO21520		Address:	
Email: Thomas.Haskins@golder.com		Project Name: Bailly Assessment		Pace Quote:	
Phone: (603)782-2433 Fax:		Project #: 21404789.008		Pace Project Manager: tina.sayer@pacelabs.com,	
Requested Due Date: 10 day TAT				Pace Profile #: 9046-1	

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	PRESERVATIVES Unpreserved H2SO4 HNO3 HCl NaOH Na2SO3 Methanol Other	SAMPLE TEMP AT COLLECTION # OF CONTAINERS	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)							
						Analyses Test	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N		Y/N	Y/N					
1	GRMW-1B-052523		5/25/23 1135	2	2																				
2	[Redacted]																								
3	[Redacted]																								
4	[Redacted]																								
5	[Redacted]																								
6	[Redacted]																								
7	[Redacted]																								
8	[Redacted]																								
9	[Redacted]																								
10	[Redacted]																								
11	[Redacted]																								
12	[Redacted]																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[Signature]	5/25/23	1130	[Signature]	5/26/23	0915	0.8 Y Y Y

*Sub RadChem to Pace PA.

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: [Signature]	
SIGNATURE OF SAMPLER: [Signature]	DATE Signed: 5/25/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cool (Y/N)	Cont (Y/N)	Sam (Y/N)	Intac (Y/N)
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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 05/26/23 1030 JA

1. Courier: FED EX UPS CLIENT PACE USPS 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 **A B C D E F**
4. Cooler Temperature(s): 0.8/0.8
 (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)		<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. Circle:			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	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)	<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>
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"/>	<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											
		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	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc	
		DI	R																									Red	Yellow	Green	Black		
																											HNO3	H2SO4	NaOH	NaOH/ZnAc			
																											<2	<2	>10	>9			
1																															WT		
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass

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



WO#: 50346173

CHAIN-OF-CUSTODY / Analytical Request
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields



Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company	NIsource WSP	Report To	Tom Haskins	Attention	Jeff Loewe U126177
Address	670 North Commercial Street Manchester, NH 03101	Copy To	Danielle Sylvia, Gave Dixon	Company Name	NIsource
Email	Thomas.Haskins@qolder.com	Purchase Order #	P033928	Address	
Phone	(603)782-2433	Project Name	Bailly Assessment	State / Location	IN
Requested Due Date	10 day TAT	Project #	21404789.008	Regulatory Agency	
Regulatory Agency		State / Location		IN	

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES		ANALYSES TEST	Requested Analysis Filtered (Y/N)	TEMP in C	Received on	Custody	Sealed	Cooler	Samples	
			START DATE	END DATE				UNPRESERVED	H2SO4									HNO3
1	GAMM-19-053123	DW	5/31/23	1235	2	WT6	2	2				001						
2	GAMM-20-053123	WW	5/31/23	1440	2	WT6	2	2				002						
3	FB-05-053123	P	5/31/23	1800	2	WT6	2	2				003						
4	[REDACTED]	SL																
5	[REDACTED]	OL																
6	[REDACTED]	WP																
7	[REDACTED]	AR																
8	[REDACTED]	OT																
9	[REDACTED]	TS																
10	[REDACTED]																	
11	[REDACTED]																	
12	[REDACTED]																	

ACCEPTED BY / AFFILIATION: FE
 DATE: 5/31/23
 TIME: 0905
 SAMPLE CONDITIONS: See SCUR

SAMPLER NAME AND SIGNATURE: Daniel Pearson
 PRINT Name of SAMPLER: Daniel Pearson
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 5/31/23

ADDITIONAL COMMENTS: *Sub RadChem to FACE PA.

SAMPLE CONDITION UPON RECEIPT FORM

Pace

Date/Time and Initials of person examining contents: DMP 6/1/23 0957

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____

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

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 A B C D E F
1.3/1.32 1.1/0.92

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

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

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"/>			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:				
Rush TAT Requested (4 days or less):	<input checked="" type="checkbox"/>				
Custody Signatures Present?	<input checked="" type="checkbox"/>		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Absent	N/A
Containers Intact?	<input checked="" type="checkbox"/>		Residual Chlorine Check (Total/Amenable/Free Cyanide)		<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC? Except TCs, which only require sample ID			Headspace Wisconsin Sulfide?	Present	No VOA Vials Sent <input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)		N/A	Headspace in VOA Vials (>6mm): See Container Count form for details		
			Trip Blank Present?		
			Trip Blank Custody Seals?		

COMMENTS: GAMW-20-053123 time on containers = 1435, COC = 1440.
DMP 6/1/23.

FB should be FD per D. Sylvia email. 06/08/23trms
 Time for GAMW-20-053123 should be 1440 per G. Dixon email. 06/12/23trms

COC Line Item	WG FU	VIALS			AMBER GLASS								PLASTIC								OTHER									
		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	
1																														
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Glass		Plastic																		
DG9H	40mL HCl amber 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	Syringe Kit	LL Cr+6 sampling kit													
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 unpreserved 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 unpreserved plastic	GN	General Container													
WGKU	8oz unpreserved 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 unpreserved 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 unpreserved 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															



CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

WO# : 50346298



50346298

Section A	Section B	Section C	
Required Client Information: Company: NiSource WSP Address: 670 North Commercial Street Manchester, NH 03101 Email: Thomas.Haskins@golder.com Phone: (603)782-2433 Fax: Requested Due Date: 10 day TAT	Required Project Information: Report To: Tom Haskins Copy To: Danielle Sylvia, Gave Dixon Purchase Order #: PO33928 Project Name: Bailly Assessment Project #: 31404789.008	Invoice Information: Attention: Jeff Loewe U126177 Company Name: NiSource Address: Pace Quote: Pace Project Manager: tina.sayer@pacelabs.com, Pace Profile #: 9046-1	Regulatory Agency State / Location IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX CODE 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																						
				DATE	TIME	DATE	TIME																																	
1	BAMW-21-060123		WTG			4/1/23	1150	2	2																															OO1
2	BAMW-22-060123		WTG			6/1/23	1405	2	2																													OO2		
3	BAMW-22B-060123		WTG			6/1/23	1520	2	2																													MS/MSD OO3 OO4OO5		
4	██████████																																							
5	██████████																																							
6	██████████																																							
7	██████████																																							
8	██████████																																							
9	██████████																																							
10	██████████																																							
11	██████████																																							
12	██████████																																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	R. J. [Signature]	6/1/23	1800	FedEx					
	FedEx	6/2/23	9:00	M. [Signature]	6-2-23	9:00	0.5	Y	Y
							0.2		Y

*SUB RadChem TO PACE PA.

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. J. [Signature]

SIGNATURE of SAMPLER: [Signature] DATE Signed: 6/1/23

TEMP in C

Received on Ice (Y/N)

Custody Sealed (Y/N)

cooler (Y/N)

Samples Intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 6-2-23 10:13

1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F**
4. Cooler Temperature(s): 0.5/0.5 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:		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> 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"/> RAD
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"/>	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 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:



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

WO#: 50346390



Section A

Section B

Section C

Required Client Information:

Company: NiSource_WSP
 Address: 670 North Commercial Street
 Manchester, NH 03101
 Email: Thomas_Haskins@golder.com
 Phone: (603)782-2433 Fax:
 Requested Due Date: 10 day TAT

Required Project Information:

Report To: Tom Haskins
 Copy To: Danielle Sylvia, Gave Dixon
 Purchase Order #: PO33928
 Project Name: Baily Assessment
 Project #: 31404789.008

Invoice Information:

Attention: Jeff Loewe U126177
 Company Name: NiSource
 Address:
 Pace Quote:
 Pace Project Manager: tina.sayer@pacelabs
 Pace Profile #: 9046-1

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 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
					DATE	TIME	DATE	TIME													
1	CAAMU-23-060223	WTG			6/2/23	1025	2	2													
2	CAAMU-23B-060223	WTG			6/2/23	1140	2	2											001		
3	FB-05-060223	WTG			6/2/23	1155	2	2											002		
4																			003		
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i> / WSP	6/2/23	1400	FE <i>[Signature]</i> / Pace	6/3/23	0855	see SCUR

*SUB RadChem TO PACE PA.

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *[Signature]*

SIGNATURE of SAMPLER: *[Signature]* DATE Signed: 6/2/23

TEMP in C: _____

Received on ice (Y/N): _____

Custody Sealed (Y/N): _____

Copier (Y/N): _____

Samples intact (Y/N): _____



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 6/3/23 0929

1. Courier: FED EX UPS CLIENT PACE USPS 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 (A B C D E F)
 2.1/2.29 (5/1.37)
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 Plastic Bags
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:		<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:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<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 CDC? 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)		<u>N/A</u>	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	WGUFU	MeOH (only)	VIALS						AMBER GLASS						PLASTIC						OTHER				Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ZnAc Black							
		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				
		DI	R																																	
1															2																					
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

Container Codes

Glass				Plastic				Miscellaneous	
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic	Syringe Kit	LL Cr+6 sampling kit
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic	ZPLC	Ziploc Bag
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic	R	Terracore Kit
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic			SP5T	120mL Coliform Sodium Thiosulfate
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac			GN	General Container
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic			U	Summa Can (air sample)
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic			WT	Water
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic			SL	Solid Solid
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic			OL:	Oil
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac			NAL	Non-aqueous liquid
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic			WP	Wipe
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				

APPENDIX B

**November 2023 Analytical
Laboratory Reports**



December 15, 2023

Mr. Tom Haskins
WSP Golder
10 Al Paul Lane
Suite 103
Merrimack, NH 03054

RE: Project: Bailly Assessment
Pace Project No.: 50359718

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between November 15, 2023 and December 01, 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

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

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Gabe Dixon, WSP
Ms. Sarah Gilles, WSP Golder
Ms. Danielle Sylvia, WSP Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Baily Assessment

Pace Project No.: 50359718

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

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: Bailly Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50359718001	GAMW-01-111423	Water	11/14/23 13:00	11/15/23 09:10
50359718002	GAMW-01B-111423	Water	11/14/23 15:00	11/15/23 09:10
50359718003	GAMW-21-111423	Water	11/14/23 15:15	11/15/23 09:10
50359849001	GAMW-20-111523	Water	11/15/23 11:50	11/16/23 09:45
50359849002	GAMW-19-111523	Water	11/15/23 14:00	11/16/23 09:45
50359849003	GAMW-02-111523	Water	11/15/23 10:50	11/16/23 09:45
50359849004	GAMW-03-111523	Water	11/15/23 12:35	11/16/23 09:45
50359849005	GAMW-04-111523	Water	11/15/23 14:20	11/16/23 09:45
50359849006	FD-01-111523	Water	11/15/23 12:00	11/16/23 09:45
50359957001	GAMW-08B-111623	Water	11/16/23 10:50	11/17/23 09:45
50359957002	GAMW-14-111623	Water	11/16/23 12:10	11/17/23 09:45
50359957003	GAMW-13-111623	Water	11/16/23 13:55	11/17/23 09:45
50359957004	GAMW-06-111623	Water	11/16/23 11:00	11/17/23 09:45
50359957005	GAMW-10-111623	Water	11/16/23 13:00	11/17/23 09:45
50359957006	GAMW-07-111623	Water	11/16/23 15:00	11/17/23 09:45
50359957007	FB-01-111623	Water	11/16/23 12:30	11/17/23 09:45
50359957008	FD-02-111623	Water	11/16/23 12:00	11/17/23 09:45
50360160001	GAMW-22-112023	Water	11/20/23 10:15	11/21/23 09:35
50360160002	GAMW-22B-112023	Water	11/20/23 11:35	11/21/23 09:35
50360160003	GAMW-16-112023	Water	11/20/23 13:05	11/21/23 09:35
50360160004	FB-02-112023	Water	11/20/23 13:20	11/21/23 09:35
50360283001	GAMW-23-112123	Water	11/21/23 10:35	11/22/23 09:10
50360283002	GAMW-23B-112123	Water	11/21/23 12:05	11/22/23 09:10
50360283003	GAMW-18-112123	Water	11/21/23 13:20	11/22/23 09:10
50360446001	GAMW-11-112723	Water	11/27/23 10:30	11/28/23 09:05
50360446002	GAMW-11B-112723	Water	11/27/23 11:50	11/28/23 09:05
50360446003	GAMW-11C-112723	Water	11/27/23 13:05	11/28/23 09:05
50360534001	GAMW-17-112823	Water	11/28/23 10:40	11/29/23 09:05
50360534002	GAMW-17B-112823	Water	11/28/23 13:20	11/29/23 09:05
50360534003	FB-03-112823	Water	11/28/23 10:50	11/29/23 09:05
50360626001	MW-105-112923	Water	11/29/23 10:30	11/30/23 09:10
50360626002	MW-112-112923	Water	11/29/23 11:50	11/30/23 09:10
50360626003	GAMW-12R-112923	Water	11/29/23 13:00	11/30/23 09:10
50360626004	FD-03-112923	Water	11/29/23 12:00	11/30/23 09:10
50360695001	GAMW-08-113023	Water	11/30/23 10:05	12/01/23 09:35

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SAMPLE ANALYTE COUNT

Project: Baily Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50359718001	GAMW-01-111423	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50359718002	GAMW-01B-111423	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50359718003	GAMW-21-111423	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50359849001	GAMW-20-111523	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50359849002	GAMW-19-111523	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50359849003	GAMW-02-111523	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50359849004	GAMW-03-111523	EPA 9056	KBB	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Baily Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50359849005	GAMW-04-111523	EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
50359849006	FD-01-111523	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50359957001	GAMW-08B-111623	EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
50359957002	GAMW-14-111623	EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
50359957003	GAMW-13-111623	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50359957004	GAMW-06-111623	EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Baily Assessment
 Pace Project No.: 50359718

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50359957005	GAMW-10-111623	EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
50359957006	GAMW-07-111623	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
50359957007	FB-01-111623	EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
50359957008	FD-02-111623	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	MTW	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	3	PASI-I
50360160001	GAMW-22-112023	EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
50360160002	GAMW-22B-112023	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50360160003	GAMW-16-112023	EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
50360160004	FB-02-112023	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
50360283001	GAMW-23-112123	EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
50360283002	GAMW-23B-112123	EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
50360283003	GAMW-18-112123	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
50360446001	GAMW-11-112723	EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Baily Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50360446002	GAMW-11B-112723	SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
50360446003	GAMW-11C-112723	SM 4500-H+B	RJP	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
50360534001	GAMW-17-112823	EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
50360534002	GAMW-17B-112823	EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	3	PASI-I
50360534003	FB-03-112823	EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	KBB	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
50360626001	MW-105-112923	EPA 7470	EAE	1	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50360626002	MW-112-112923	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	SL	1	PASI-I
50360626003	GAMW-12R-112923	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	SL	1	PASI-I
50360626004	FD-03-112923	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	SL	1	PASI-I
50360695001	GAMW-08-113023	SM 4500-H+B	LHZ	1	PASI-I
		EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment
 Pace Project No.: 50359718

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50359718001	GAMW-01-111423					
EPA 9056	Chloride	3.2	mg/L	0.25	12/01/23 18:59	
EPA 9056	Fluoride	0.11	mg/L	0.050	12/01/23 18:59	
EPA 9056	Sulfate	45.9	mg/L	0.25	12/01/23 18:59	
EPA 6010	Boron	0.12	mg/L	0.10	11/22/23 10:24	
EPA 6010	Calcium	70.4	mg/L	1.0	11/22/23 10:24	
EPA 6020	Antimony	0.00078J	mg/L	0.0010	11/19/23 21:49	
EPA 6020	Arsenic	0.00048J	mg/L	0.0010	11/22/23 13:49	
EPA 6020	Barium	0.031	mg/L	0.0010	11/19/23 21:49	
EPA 6020	Beryllium	0.000039J	mg/L	0.00020	11/19/23 21:49	
EPA 6020	Cadmium	0.00052	mg/L	0.00020	11/19/23 21:49	
EPA 6020	Chromium	0.00072J	mg/L	0.0020	11/22/23 13:49	
EPA 6020	Cobalt	0.00023J	mg/L	0.0010	11/22/23 13:49	
EPA 6020	Lead	0.000045J	mg/L	0.0010	11/19/23 21:49	
EPA 6020	Molybdenum	0.033	mg/L	0.0010	11/22/23 13:49	
EPA 6020	Selenium	0.015	mg/L	0.0010	11/22/23 13:49	
EPA 6020	Thallium	0.0030	mg/L	0.0010	11/19/23 21:49	
SM 2540C	Total Dissolved Solids	286	mg/L	10.0	11/20/23 12:44	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	11/30/23 16:57	H3
50359718002	GAMW-01B-111423					
EPA 9056	Chloride	5.5	mg/L	0.25	12/01/23 20:31	
EPA 9056	Fluoride	1.6	mg/L	0.050	12/01/23 20:31	
EPA 9056	Sulfate	86.6	mg/L	2.5	12/01/23 20:49	
EPA 6010	Boron	0.28	mg/L	0.10	11/22/23 10:25	
EPA 6010	Calcium	112	mg/L	1.0	11/22/23 10:25	
EPA 6020	Antimony	0.00063J	mg/L	0.0010	11/19/23 21:52	
EPA 6020	Arsenic	0.00091J	mg/L	0.0010	11/22/23 13:53	
EPA 6020	Barium	0.025	mg/L	0.0010	11/19/23 21:52	
EPA 6020	Cadmium	0.00071	mg/L	0.00020	11/19/23 21:52	
EPA 6020	Chromium	0.00046J	mg/L	0.0020	11/22/23 13:53	
EPA 6020	Cobalt	0.00060J	mg/L	0.0010	11/22/23 13:53	
EPA 6020	Molybdenum	0.026	mg/L	0.0010	11/22/23 13:53	
EPA 6020	Selenium	0.013	mg/L	0.0010	11/22/23 13:53	
EPA 6020	Thallium	0.0032	mg/L	0.0010	11/19/23 21:52	
SM 2540C	Total Dissolved Solids	402	mg/L	10.0	11/20/23 12:45	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	11/30/23 16:57	H3
50359718003	GAMW-21-111423					
EPA 9056	Chloride	41.8	mg/L	2.5	12/01/23 21:44	
EPA 9056	Fluoride	0.33	mg/L	0.050	12/01/23 21:26	
EPA 9056	Sulfate	30.6	mg/L	0.25	12/01/23 21:26	
EPA 6010	Boron	0.096J	mg/L	0.10	11/22/23 10:27	
EPA 6010	Calcium	30.4	mg/L	1.0	11/22/23 10:27	
EPA 6020	Arsenic	0.0064	mg/L	0.0010	11/22/23 14:09	
EPA 6020	Barium	0.016	mg/L	0.0010	11/19/23 21:56	
EPA 6020	Beryllium	0.000039J	mg/L	0.00020	11/19/23 21:56	
EPA 6020	Cadmium	0.00020J	mg/L	0.00020	11/19/23 21:56	
EPA 6020	Chromium	0.0018J	mg/L	0.0020	11/22/23 14:09	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359718

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50359718003	GAMW-21-111423					
EPA 6020	Cobalt	0.00078J	mg/L	0.0010	11/22/23 14:09	
EPA 6020	Lead	0.00016J	mg/L	0.0010	11/19/23 21:56	
EPA 6020	Molybdenum	1.9	mg/L	0.020	11/22/23 13:56	
EPA 6020	Thallium	0.000054J	mg/L	0.0010	11/19/23 21:56	
SM 2540C	Total Dissolved Solids	202	mg/L	10.0	11/20/23 12:45	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	11/30/23 17:00	H3
50359849001	GAMW-20-111523					
EPA 9056	Chloride	25.5	mg/L	2.5	12/03/23 20:13	
EPA 9056	Fluoride	0.28	mg/L	0.050	12/03/23 19:54	
EPA 9056	Sulfate	40.2	mg/L	0.25	12/03/23 19:54	
EPA 6010	Boron	0.072J	mg/L	0.10	11/30/23 21:55	
EPA 6010	Calcium	30.2	mg/L	1.0	11/30/23 21:55	
EPA 6020	Antimony	0.00018J	mg/L	0.0010	11/29/23 13:16	
EPA 6020	Arsenic	0.0017	mg/L	0.0010	11/29/23 13:16	
EPA 6020	Barium	0.0092	mg/L	0.0010	11/29/23 13:16	
EPA 6020	Cadmium	0.000025J	mg/L	0.00020	11/29/23 13:16	
EPA 6020	Chromium	0.0017J	mg/L	0.0020	11/29/23 13:16	
EPA 6020	Cobalt	0.00014J	mg/L	0.0010	11/29/23 13:16	
EPA 6020	Lead	0.00039J	mg/L	0.0010	11/29/23 13:16	
EPA 6020	Molybdenum	0.032	mg/L	0.0010	11/29/23 13:16	
EPA 6020	Selenium	0.0028	mg/L	0.0010	11/29/23 13:16	
SM 2540C	Total Dissolved Solids	143	mg/L	10.0	11/21/23 08:25	
SM 4500-H+B	pH at 25 Degrees C	8.4	Std. Units	0.10	12/04/23 12:48	H3
50359849002	GAMW-19-111523					
EPA 9056	Chloride	20.2	mg/L	0.25	12/03/23 23:16	
EPA 9056	Fluoride	0.57	mg/L	0.050	12/03/23 23:16	
EPA 9056	Sulfate	68.5	mg/L	2.5	12/03/23 23:35	
EPA 6010	Boron	0.075J	mg/L	0.10	11/30/23 22:01	
EPA 6010	Calcium	78.1	mg/L	1.0	11/30/23 22:01	
EPA 6020	Antimony	0.000080J	mg/L	0.0010	11/29/23 13:39	
EPA 6020	Arsenic	0.0013	mg/L	0.0010	11/29/23 13:39	
EPA 6020	Barium	0.027	mg/L	0.0010	11/29/23 13:39	
EPA 6020	Cadmium	0.000031J	mg/L	0.00020	11/29/23 13:39	
EPA 6020	Chromium	0.00033J	mg/L	0.0020	11/29/23 13:39	
EPA 6020	Cobalt	0.00036J	mg/L	0.0010	11/29/23 13:39	
EPA 6020	Molybdenum	0.051	mg/L	0.0010	11/29/23 13:39	
SM 2540C	Total Dissolved Solids	283	mg/L	10.0	11/21/23 08:26	
SM 4500-H+B	pH at 25 Degrees C	8.1	Std. Units	0.10	12/04/23 12:49	H3
50359849003	GAMW-02-111523					
EPA 9056	Chloride	1.6	mg/L	0.25	12/04/23 00:11	
EPA 9056	Fluoride	2.4	mg/L	0.050	12/04/23 00:11	
EPA 9056	Sulfate	89.8	mg/L	2.5	12/04/23 00:30	
EPA 6010	Boron	0.19	mg/L	0.10	11/30/23 22:03	
EPA 6010	Calcium	90.0	mg/L	1.0	11/30/23 22:03	
EPA 6010	Lithium	0.023	mg/L	0.020	11/30/23 22:03	
EPA 6020	Antimony	0.00048J	mg/L	0.0010	11/29/23 13:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment
 Pace Project No.: 50359718

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50359849003	GAMW-02-111523					
EPA 6020	Arsenic	0.00070J	mg/L	0.0010	11/29/23 13:53	
EPA 6020	Barium	0.020	mg/L	0.0010	11/29/23 13:53	
EPA 6020	Beryllium	0.000029J	mg/L	0.00020	11/29/23 13:53	
EPA 6020	Cadmium	0.0014	mg/L	0.00020	11/29/23 13:53	
EPA 6020	Chromium	0.00082J	mg/L	0.0020	11/29/23 13:53	
EPA 6020	Cobalt	0.00014J	mg/L	0.0010	11/29/23 13:53	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	11/29/23 13:53	
EPA 6020	Selenium	0.014	mg/L	0.0010	11/29/23 13:53	
EPA 6020	Thallium	0.0030	mg/L	0.0010	11/29/23 13:53	
SM 2540C	Total Dissolved Solids	305	mg/L	10.0	11/21/23 08:26	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	12/04/23 12:50	H3
50359849004	GAMW-03-111523					
EPA 9056	Chloride	4.6	mg/L	0.25	12/04/23 01:06	
EPA 9056	Fluoride	2.0	mg/L	0.050	12/04/23 01:06	
EPA 9056	Sulfate	80.2	mg/L	2.5	12/04/23 01:25	
EPA 6010	Boron	0.22	mg/L	0.10	11/30/23 22:04	
EPA 6010	Calcium	91.1	mg/L	1.0	11/30/23 22:04	
EPA 6010	Lithium	0.0080J	mg/L	0.020	11/30/23 22:04	
EPA 6020	Antimony	0.00040J	mg/L	0.0010	11/29/23 13:56	
EPA 6020	Arsenic	0.00045J	mg/L	0.0010	11/29/23 13:56	
EPA 6020	Barium	0.014	mg/L	0.0010	11/29/23 13:56	
EPA 6020	Beryllium	0.000033J	mg/L	0.00020	11/29/23 13:56	
EPA 6020	Cadmium	0.00088	mg/L	0.00020	11/29/23 13:56	
EPA 6020	Chromium	0.00070J	mg/L	0.0020	11/29/23 13:56	
EPA 6020	Cobalt	0.00017J	mg/L	0.0010	11/29/23 13:56	
EPA 6020	Molybdenum	0.017	mg/L	0.0010	11/29/23 13:56	
EPA 6020	Selenium	0.021	mg/L	0.0010	11/29/23 13:56	
EPA 6020	Thallium	0.0035	mg/L	0.0010	11/29/23 13:56	
SM 2540C	Total Dissolved Solids	331	mg/L	10.0	11/21/23 08:26	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	12/04/23 12:50	H3
50359849005	GAMW-04-111523					
EPA 9056	Chloride	3.0	mg/L	0.25	12/04/23 02:38	
EPA 9056	Fluoride	0.15	mg/L	0.050	12/04/23 02:38	
EPA 9056	Sulfate	234	mg/L	2.5	12/04/23 02:57	
EPA 6010	Boron	0.43	mg/L	0.10	11/30/23 22:08	
EPA 6010	Calcium	109	mg/L	1.0	11/30/23 22:08	
EPA 6020	Antimony	0.000084J	mg/L	0.0010	11/29/23 14:00	
EPA 6020	Arsenic	0.0035	mg/L	0.0010	11/29/23 14:00	
EPA 6020	Barium	0.029	mg/L	0.0010	11/29/23 14:00	
EPA 6020	Beryllium	0.000076J	mg/L	0.00020	11/29/23 14:00	
EPA 6020	Cadmium	0.00033	mg/L	0.00020	11/29/23 14:00	
EPA 6020	Chromium	0.0012J	mg/L	0.0020	11/29/23 14:00	
EPA 6020	Cobalt	0.00026J	mg/L	0.0010	11/29/23 14:00	
EPA 6020	Lead	0.00010J	mg/L	0.0010	11/29/23 14:00	
EPA 6020	Molybdenum	0.051	mg/L	0.0010	11/29/23 14:00	
EPA 6020	Selenium	0.00028J	mg/L	0.0010	11/29/23 14:00	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359718

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50359849005	GAMW-04-111523					
SM 2540C	Total Dissolved Solids	484	mg/L	10.0	11/21/23 08:26	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	12/04/23 12:52	H3
50359849006	FD-01-111523					
EPA 9056	Chloride	20.5	mg/L	0.25	12/04/23 03:33	
EPA 9056	Fluoride	0.58	mg/L	0.050	12/04/23 03:33	
EPA 9056	Sulfate	66.8	mg/L	2.5	12/04/23 03:52	
EPA 6010	Boron	0.077J	mg/L	0.10	11/30/23 22:10	
EPA 6010	Calcium	79.5	mg/L	1.0	11/30/23 22:10	
EPA 6020	Arsenic	0.0013	mg/L	0.0010	11/29/23 14:03	
EPA 6020	Barium	0.027	mg/L	0.0010	11/29/23 14:03	
EPA 6020	Cadmium	0.000028J	mg/L	0.00020	11/29/23 14:03	
EPA 6020	Chromium	0.00034J	mg/L	0.0020	11/29/23 14:03	
EPA 6020	Cobalt	0.00035J	mg/L	0.0010	11/29/23 14:03	
EPA 6020	Molybdenum	0.051	mg/L	0.0010	11/29/23 14:03	
SM 2540C	Total Dissolved Solids	308	mg/L	10.0	11/21/23 08:27	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	12/04/23 12:53	H3
50359957001	GAMW-08B-111623					
EPA 9056	Chloride	5.5	mg/L	0.25	12/04/23 19:11	
EPA 9056	Fluoride	0.72	mg/L	0.050	12/04/23 19:11	
EPA 9056	Sulfate	34.6	mg/L	0.25	12/04/23 19:11	
EPA 6010	Boron	0.30	mg/L	0.10	12/04/23 11:09	
EPA 6010	Calcium	97.9	mg/L	1.0	12/04/23 11:09	
EPA 6010	Lithium	0.0090J	mg/L	0.020	12/04/23 11:09	3d
EPA 6020	Antimony	0.00022J	mg/L	0.0010	11/29/23 14:13	
EPA 6020	Arsenic	0.0020	mg/L	0.0010	11/29/23 14:13	
EPA 6020	Barium	0.021	mg/L	0.0010	11/29/23 14:13	
EPA 6020	Beryllium	0.000083J	mg/L	0.00020	11/29/23 14:13	
EPA 6020	Cadmium	0.0062	mg/L	0.00020	11/29/23 14:13	
EPA 6020	Chromium	0.0018J	mg/L	0.0020	11/29/23 14:13	
EPA 6020	Cobalt	0.0044	mg/L	0.0010	11/29/23 14:13	
EPA 6020	Lead	0.000089J	mg/L	0.0010	11/29/23 14:13	
EPA 6020	Molybdenum	0.036	mg/L	0.0010	11/29/23 14:13	
EPA 6020	Selenium	0.0030	mg/L	0.0010	11/29/23 14:13	
EPA 6020	Thallium	0.011	mg/L	0.0010	11/29/23 14:13	
SM 2540C	Total Dissolved Solids	349	mg/L	10.0	11/22/23 08:05	
SM 4500-H+B	pH at 25 Degrees C	8.4	Std. Units	0.10	12/04/23 13:47	H3
50359957002	GAMW-14-111623					
EPA 9056	Chloride	4.2	mg/L	0.25	12/04/23 21:38	
EPA 9056	Fluoride	0.21	mg/L	0.050	12/04/23 21:38	
EPA 9056	Sulfate	82.2	mg/L	2.5	12/04/23 21:56	
EPA 6010	Boron	0.29	mg/L	0.10	12/04/23 11:10	
EPA 6010	Calcium	94.0	mg/L	1.0	12/04/23 11:10	
EPA 6010	Lithium	0.0074J	mg/L	0.020	12/04/23 11:10	3d
EPA 6020	Antimony	0.00039J	mg/L	0.0010	11/29/23 14:17	
EPA 6020	Arsenic	0.0034	mg/L	0.0010	11/29/23 14:17	
EPA 6020	Barium	0.032	mg/L	0.0010	11/29/23 14:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359718

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50359957002	GAMW-14-111623					
EPA 6020	Cadmium	0.00020J	mg/L	0.00020	11/29/23 14:17	
EPA 6020	Chromium	0.00034J	mg/L	0.0020	11/29/23 14:17	
EPA 6020	Cobalt	0.00076J	mg/L	0.0010	11/29/23 14:17	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	11/29/23 14:17	
EPA 6020	Selenium	0.0072	mg/L	0.0010	11/29/23 14:17	
EPA 6020	Thallium	0.00091J	mg/L	0.0010	11/29/23 14:17	
SM 2540C	Total Dissolved Solids	339	mg/L	10.0	11/22/23 08:05	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	12/05/23 12:29	H3
50359957003	GAMW-13-111623					
EPA 9056	Chloride	5.4	mg/L	0.25	12/04/23 22:33	
EPA 9056	Fluoride	0.13	mg/L	0.050	12/04/23 22:33	
EPA 9056	Sulfate	132	mg/L	2.5	12/04/23 22:51	
EPA 6010	Boron	0.60	mg/L	0.10	12/04/23 11:12	
EPA 6010	Calcium	188	mg/L	1.0	12/04/23 11:12	
EPA 6010	Lithium	0.011J	mg/L	0.020	12/04/23 11:12	3d
EPA 6020	Antimony	0.00058J	mg/L	0.0010	11/29/23 14:20	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	11/29/23 14:20	
EPA 6020	Barium	0.055	mg/L	0.0010	11/29/23 14:20	
EPA 6020	Cadmium	0.000042J	mg/L	0.00020	11/29/23 14:20	
EPA 6020	Chromium	0.00036J	mg/L	0.0020	11/29/23 14:20	
EPA 6020	Cobalt	0.00088J	mg/L	0.0010	11/29/23 14:20	
EPA 6020	Molybdenum	0.010	mg/L	0.0010	11/29/23 14:20	
EPA 6020	Selenium	0.013	mg/L	0.0010	11/29/23 14:20	
EPA 6020	Thallium	0.00044J	mg/L	0.0010	11/29/23 14:20	
SM 2540C	Total Dissolved Solids	638	mg/L	10.0	11/22/23 08:06	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	12/05/23 12:30	H3
50359957004	GAMW-06-111623					
EPA 9056	Chloride	2.5	mg/L	0.25	12/05/23 00:05	
EPA 9056	Fluoride	0.94	mg/L	0.050	12/05/23 00:05	
EPA 9056	Sulfate	45.8	mg/L	0.25	12/05/23 00:05	
EPA 6010	Boron	0.12	mg/L	0.10	12/04/23 11:21	
EPA 6010	Calcium	91.3	mg/L	1.0	12/04/23 11:21	
EPA 6020	Antimony	0.0012	mg/L	0.0010	11/29/23 14:24	
EPA 6020	Arsenic	0.0010	mg/L	0.0010	11/29/23 14:24	
EPA 6020	Barium	0.021	mg/L	0.0010	11/29/23 14:24	
EPA 6020	Cadmium	0.00043	mg/L	0.00020	11/29/23 14:24	
EPA 6020	Chromium	0.00046J	mg/L	0.0020	11/29/23 14:24	
EPA 6020	Cobalt	0.00022J	mg/L	0.0010	11/29/23 14:24	
EPA 6020	Molybdenum	0.046	mg/L	0.0010	11/29/23 14:24	
EPA 6020	Selenium	0.012	mg/L	0.0010	11/29/23 14:24	
EPA 6020	Thallium	0.0043	mg/L	0.0010	11/29/23 14:24	
SM 2540C	Total Dissolved Solids	278	mg/L	10.0	11/22/23 08:06	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	12/05/23 12:31	H3
50359957005	GAMW-10-111623					
EPA 9056	Chloride	1.7	mg/L	0.25	12/05/23 01:00	
EPA 9056	Fluoride	4.0	mg/L	0.050	12/05/23 01:00	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359718

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50359957005	GAMW-10-111623					
EPA 9056	Sulfate	82.4	mg/L	2.5	12/05/23 01:18	
EPA 6010	Boron	0.17	mg/L	0.10	12/04/23 11:23	
EPA 6010	Calcium	68.1	mg/L	1.0	12/04/23 11:23	
EPA 6020	Antimony	0.00040J	mg/L	0.0010	11/29/23 14:37	
EPA 6020	Arsenic	0.00042J	mg/L	0.0010	11/29/23 14:37	
EPA 6020	Barium	0.015	mg/L	0.0010	11/29/23 14:37	
EPA 6020	Beryllium	0.000041J	mg/L	0.00020	11/29/23 14:37	
EPA 6020	Cadmium	0.00040	mg/L	0.00020	11/29/23 14:37	
EPA 6020	Chromium	0.00084J	mg/L	0.0020	11/29/23 14:37	
EPA 6020	Cobalt	0.00010J	mg/L	0.0010	11/29/23 14:37	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	11/29/23 14:37	
EPA 6020	Selenium	0.0076	mg/L	0.0010	11/29/23 14:37	
EPA 6020	Thallium	0.0030	mg/L	0.0010	11/29/23 14:37	
SM 2540C	Total Dissolved Solids	228	mg/L	10.0	11/22/23 08:06	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	12/05/23 12:32	H3
50359957006	GAMW-07-111623					
EPA 9056	Chloride	2.8	mg/L	0.25	12/05/23 01:55	
EPA 9056	Fluoride	2.0	mg/L	0.050	12/05/23 01:55	
EPA 9056	Sulfate	27.5	mg/L	0.25	12/05/23 01:55	
EPA 6010	Boron	0.081J	mg/L	0.10	12/04/23 11:24	
EPA 6010	Calcium	77.4	mg/L	1.0	12/04/23 11:24	
EPA 6010	Lithium	0.022	mg/L	0.020	12/04/23 11:24	3d
EPA 6020	Antimony	0.00032J	mg/L	0.0010	11/29/23 14:41	
EPA 6020	Arsenic	0.0032	mg/L	0.0010	11/29/23 14:41	
EPA 6020	Barium	0.0085	mg/L	0.0010	11/29/23 14:41	
EPA 6020	Cadmium	0.00020J	mg/L	0.00020	11/29/23 14:41	
EPA 6020	Chromium	0.00048J	mg/L	0.0020	11/29/23 14:41	
EPA 6020	Cobalt	0.00035J	mg/L	0.0010	11/29/23 14:41	
EPA 6020	Molybdenum	0.017	mg/L	0.0010	11/29/23 14:41	
EPA 6020	Selenium	0.00074J	mg/L	0.0010	11/29/23 14:41	
EPA 6020	Thallium	0.0032	mg/L	0.0010	11/29/23 14:41	
SM 2540C	Total Dissolved Solids	235	mg/L	10.0	11/22/23 08:06	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	12/05/23 12:32	H3
50359957007	FB-01-111623					
EPA 6020	Barium	0.00063J	mg/L	0.0010	11/29/23 14:44	
EPA 6020	Chromium	0.00024J	mg/L	0.0020	11/29/23 14:44	
EPA 6020	Lead	0.000096J	mg/L	0.0010	11/29/23 14:44	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	12/05/23 12:33	H3
50359957008	FD-02-111623					
EPA 9056	Chloride	1.7	mg/L	0.25	12/05/23 04:22	
EPA 9056	Fluoride	4.0	mg/L	0.050	12/05/23 04:22	
EPA 9056	Sulfate	83.2	mg/L	2.5	12/05/23 04:40	
EPA 6010	Boron	0.17	mg/L	0.10	12/04/23 11:27	
EPA 6010	Calcium	69.1	mg/L	1.0	12/04/23 11:27	
EPA 6020	Antimony	0.00040J	mg/L	0.0010	11/29/23 14:48	
EPA 6020	Arsenic	0.00046J	mg/L	0.0010	11/29/23 14:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359718

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50359957008	FD-02-111623					
EPA 6020	Barium	0.015	mg/L	0.0010	11/29/23 14:48	
EPA 6020	Beryllium	0.000041J	mg/L	0.00020	11/29/23 14:48	
EPA 6020	Cadmium	0.00041	mg/L	0.00020	11/29/23 14:48	
EPA 6020	Chromium	0.00092J	mg/L	0.0020	11/29/23 14:48	
EPA 6020	Cobalt	0.000097J	mg/L	0.0010	11/29/23 14:48	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	11/29/23 14:48	
EPA 6020	Selenium	0.0077	mg/L	0.0010	11/29/23 14:48	
EPA 6020	Thallium	0.0030	mg/L	0.0010	11/29/23 14:48	
SM 2540C	Total Dissolved Solids	228	mg/L	10.0	11/22/23 08:07	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	12/05/23 12:34	H3
50360160001	GAMW-22-112023					
EPA 9056	Chloride	16.0	mg/L	0.25	12/07/23 09:58	
EPA 9056	Fluoride	0.84	mg/L	0.050	12/07/23 09:58	
EPA 9056	Sulfate	42.5	mg/L	0.25	12/07/23 09:58	
EPA 6010	Boron	0.13	mg/L	0.10	12/02/23 12:47	
EPA 6010	Calcium	41.4	mg/L	1.0	12/02/23 12:47	
EPA 6010	Lithium	0.012J	mg/L	0.020	12/02/23 12:47	
EPA 6020	Antimony	0.00054J	mg/L	0.0010	12/05/23 08:49	
EPA 6020	Arsenic	0.0045	mg/L	0.0010	12/05/23 08:49	
EPA 6020	Barium	0.0087	mg/L	0.0010	12/05/23 08:49	
EPA 6020	Cadmium	0.00029	mg/L	0.00020	12/05/23 08:49	
EPA 6020	Chromium	0.0090	mg/L	0.0020	12/05/23 08:49	
EPA 6020	Cobalt	0.000087J	mg/L	0.0010	12/05/23 08:49	
EPA 6020	Lead	0.000035J	mg/L	0.0010	12/05/23 08:49	
EPA 6020	Molybdenum	0.0084	mg/L	0.0010	12/05/23 08:49	
EPA 6020	Selenium	0.0040	mg/L	0.0010	12/05/23 08:49	
EPA 6020	Thallium	0.0048	mg/L	0.0010	12/05/23 08:49	
SM 2540C	Total Dissolved Solids	175	mg/L	10.0	11/27/23 12:08	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	12/07/23 13:55	H3
50360160002	GAMW-22B-112023					
EPA 9056	Chloride	70.3	mg/L	2.5	12/07/23 11:15	
EPA 9056	Fluoride	1.6	mg/L	0.050	12/07/23 10:56	
EPA 9056	Sulfate	47.5	mg/L	0.25	12/07/23 10:56	
EPA 6010	Boron	0.26	mg/L	0.10	12/02/23 12:48	
EPA 6010	Calcium	62.4	mg/L	1.0	12/02/23 12:48	
EPA 6010	Lithium	0.018J	mg/L	0.020	12/02/23 12:48	
EPA 6020	Antimony	0.0014	mg/L	0.0010	12/05/23 08:52	
EPA 6020	Arsenic	0.00062J	mg/L	0.0010	12/05/23 08:52	
EPA 6020	Barium	0.028	mg/L	0.0010	12/05/23 08:52	
EPA 6020	Cadmium	0.010	mg/L	0.00020	12/05/23 08:52	
EPA 6020	Chromium	0.0036	mg/L	0.0020	12/05/23 08:52	
EPA 6020	Cobalt	0.0033	mg/L	0.0010	12/05/23 08:52	
EPA 6020	Lead	0.000095J	mg/L	0.0010	12/05/23 08:52	
EPA 6020	Molybdenum	0.042	mg/L	0.0010	12/05/23 08:52	
EPA 6020	Selenium	0.0031	mg/L	0.0010	12/05/23 08:52	
EPA 6020	Thallium	0.013	mg/L	0.0010	12/05/23 08:52	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment
 Pace Project No.: 50359718

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360160002	GAMW-22B-112023					
SM 2540C	Total Dissolved Solids	477	mg/L	10.0	11/27/23 12:08	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	12/07/23 13:55	H3
50360160003	GAMW-16-112023					
EPA 9056	Chloride	6.8	mg/L	0.25	12/07/23 11:35	
EPA 9056	Fluoride	0.84	mg/L	0.050	12/07/23 11:35	
EPA 9056	Sulfate	105	mg/L	2.5	12/07/23 11:54	
EPA 6010	Boron	1.2	mg/L	0.10	12/02/23 12:49	
EPA 6010	Calcium	106	mg/L	1.0	12/02/23 12:49	
EPA 6010	Lithium	0.091	mg/L	0.020	12/02/23 12:49	
EPA 6020	Antimony	0.00084J	mg/L	0.0010	12/05/23 08:56	
EPA 6020	Arsenic	0.021	mg/L	0.0010	12/05/23 08:56	
EPA 6020	Barium	0.015	mg/L	0.0010	12/05/23 08:56	
EPA 6020	Cadmium	0.0032	mg/L	0.00020	12/05/23 08:56	
EPA 6020	Chromium	0.0017J	mg/L	0.0020	12/05/23 08:56	
EPA 6020	Cobalt	0.00062J	mg/L	0.0010	12/05/23 08:56	
EPA 6020	Lead	0.000052J	mg/L	0.0010	12/05/23 08:56	
EPA 6020	Molybdenum	0.026	mg/L	0.0010	12/05/23 08:56	
EPA 6020	Selenium	0.025	mg/L	0.0010	12/05/23 08:56	
EPA 6020	Thallium	0.0047	mg/L	0.0010	12/05/23 08:56	
SM 2540C	Total Dissolved Solids	430	mg/L	10.0	11/27/23 12:09	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	12/07/23 13:56	H3
50360160004	FB-02-112023					
EPA 6020	Arsenic	0.000087J	mg/L	0.0010	12/05/23 08:32	
EPA 6020	Barium	0.0017	mg/L	0.0010	12/05/23 08:32	C0
EPA 6020	Chromium	0.00030J	mg/L	0.0020	12/05/23 08:32	
EPA 6020	Lead	0.000074J	mg/L	0.0010	12/05/23 08:32	
SM 4500-H+B	pH at 25 Degrees C	8.4	Std. Units	0.10	12/07/23 13:57	H3
50360283001	GAMW-23-112123					
EPA 9056	Chloride	18.6	mg/L	0.25	12/11/23 20:01	
EPA 9056	Fluoride	1.1	mg/L	0.050	12/11/23 20:01	
EPA 9056	Sulfate	112	mg/L	2.5	12/11/23 20:20	
EPA 6010	Boron	0.12	mg/L	0.10	12/02/23 12:57	
EPA 6010	Calcium	29.0	mg/L	1.0	12/02/23 12:57	
EPA 6020	Antimony	0.00077J	mg/L	0.0010	12/05/23 09:06	
EPA 6020	Arsenic	0.0020	mg/L	0.0010	12/05/23 09:06	
EPA 6020	Barium	0.016	mg/L	0.0010	12/05/23 09:06	
EPA 6020	Cadmium	0.000047J	mg/L	0.00020	12/05/23 09:06	
EPA 6020	Chromium	0.017	mg/L	0.0020	12/05/23 09:06	
EPA 6020	Cobalt	0.00024J	mg/L	0.0010	12/05/23 09:06	
EPA 6020	Lead	0.000040J	mg/L	0.0010	12/05/23 09:06	
EPA 6020	Molybdenum	0.028	mg/L	0.0010	12/05/23 09:06	
EPA 6020	Selenium	0.0053	mg/L	0.0010	12/05/23 09:06	
EPA 6020	Thallium	0.0040	mg/L	0.0010	12/05/23 09:06	
SM 2540C	Total Dissolved Solids	277	mg/L	10.0	11/28/23 11:04	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	12/07/23 14:41	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359718

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50360283002	GAMW-23B-112123					
EPA 9056	Chloride	95.3	mg/L	2.5	12/11/23 21:37	
EPA 9056	Fluoride	1.9	mg/L	0.050	12/11/23 21:18	
EPA 9056	Sulfate	50.6	mg/L	2.5	12/11/23 21:37	
EPA 6010	Boron	0.19	mg/L	0.10	12/02/23 12:58	
EPA 6010	Calcium	59.7	mg/L	1.0	12/02/23 12:58	
EPA 6010	Lithium	0.012J	mg/L	0.020	12/02/23 12:58	
EPA 6020	Arsenic	0.0061	mg/L	0.0010	12/05/23 09:09	
EPA 6020	Barium	0.029	mg/L	0.0010	12/05/23 09:09	
EPA 6020	Cadmium	0.000046J	mg/L	0.00020	12/05/23 09:09	
EPA 6020	Chromium	0.00036J	mg/L	0.0020	12/05/23 09:09	
EPA 6020	Cobalt	0.00016J	mg/L	0.0010	12/05/23 09:09	
EPA 6020	Lead	0.00023J	mg/L	0.0010	12/05/23 09:09	
EPA 6020	Molybdenum	0.28	mg/L	0.0020	12/05/23 10:58	
EPA 6020	Selenium	0.0034	mg/L	0.0010	12/05/23 09:09	
EPA 6020	Thallium	0.00015J	mg/L	0.0010	12/05/23 09:09	
SM 2540C	Total Dissolved Solids	473	mg/L	10.0	11/28/23 11:04	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	12/07/23 14:42	H3
50360283003	GAMW-18-112123					
EPA 9056	Chloride	3.9	mg/L	0.25	12/11/23 21:56	
EPA 9056	Fluoride	1.5	mg/L	0.050	12/11/23 21:56	
EPA 9056	Sulfate	31.4	mg/L	0.25	12/11/23 21:56	
EPA 6010	Boron	0.16	mg/L	0.10	12/02/23 13:03	
EPA 6010	Calcium	84.0	mg/L	1.0	12/02/23 13:03	
EPA 6010	Lithium	0.010J	mg/L	0.020	12/02/23 13:03	
EPA 6020	Antimony	0.0013	mg/L	0.0010	12/05/23 09:13	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	12/05/23 09:13	
EPA 6020	Barium	0.033	mg/L	0.0010	12/05/23 09:13	
EPA 6020	Cadmium	0.000090J	mg/L	0.00020	12/05/23 09:13	
EPA 6020	Chromium	0.00046J	mg/L	0.0020	12/05/23 09:13	
EPA 6020	Cobalt	0.00020J	mg/L	0.0010	12/05/23 09:13	
EPA 6020	Molybdenum	0.029	mg/L	0.0010	12/05/23 09:13	
EPA 6020	Selenium	0.011	mg/L	0.0010	12/05/23 09:13	
EPA 6020	Thallium	0.0029	mg/L	0.0010	12/05/23 09:13	
SM 2540C	Total Dissolved Solids	295	mg/L	10.0	11/28/23 11:05	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	12/07/23 14:43	H3
50360446001	GAMW-11-112723					
EPA 9056	Chloride	5.3	mg/L	0.25	12/08/23 04:16	
EPA 9056	Fluoride	1.9	mg/L	0.050	12/08/23 04:16	
EPA 9056	Sulfate	51.6	mg/L	2.5	12/08/23 04:34	
EPA 6010	Boron	0.25	mg/L	0.10	12/02/23 13:09	
EPA 6010	Calcium	67.8	mg/L	1.0	12/02/23 13:09	
EPA 6020	Arsenic	0.0034	mg/L	0.0010	12/05/23 09:26	
EPA 6020	Barium	0.026	mg/L	0.0010	12/05/23 09:26	
EPA 6020	Cadmium	0.000047J	mg/L	0.00020	12/05/23 09:26	
EPA 6020	Chromium	0.0040	mg/L	0.0020	12/05/23 09:26	
EPA 6020	Cobalt	0.00013J	mg/L	0.0010	12/05/23 09:26	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment
 Pace Project No.: 50359718

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360446001	GAMW-11-112723					
EPA 6020	Molybdenum	0.098	mg/L	0.0010	12/05/23 09:26	
EPA 6020	Selenium	0.24	mg/L	0.0010	12/05/23 09:26	
EPA 6020	Thallium	0.000092J	mg/L	0.0010	12/05/23 09:26	
SM 2540C	Total Dissolved Solids	224	mg/L	10.0	11/29/23 10:11	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	12/09/23 14:10	H3
50360446002	GAMW-11B-112723					
EPA 9056	Chloride	79.8	mg/L	2.5	12/08/23 05:29	
EPA 9056	Sulfate	91.3	mg/L	2.5	12/08/23 05:29	
EPA 6010	Boron	0.36	mg/L	0.10	12/02/23 13:10	
EPA 6010	Calcium	149	mg/L	1.0	12/02/23 13:10	
EPA 6010	Lithium	0.0062J	mg/L	0.020	12/02/23 13:10	
EPA 6020	Arsenic	0.00081J	mg/L	0.0010	12/05/23 09:30	
EPA 6020	Barium	0.23	mg/L	0.0020	12/05/23 10:54	
EPA 6020	Chromium	0.00063J	mg/L	0.0020	12/05/23 09:30	
EPA 6020	Cobalt	0.00028J	mg/L	0.0010	12/05/23 09:30	
EPA 6020	Molybdenum	0.0072	mg/L	0.0010	12/05/23 09:30	
SM 2540C	Total Dissolved Solids	626	mg/L	10.0	11/29/23 10:11	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	12/09/23 14:11	H3
50360446003	GAMW-11C-112723					
EPA 9056	Chloride	7.7	mg/L	0.25	12/08/23 07:12	
EPA 9056	Fluoride	0.65	mg/L	0.050	12/08/23 07:12	
EPA 9056	Sulfate	61.6	mg/L	2.5	12/08/23 07:28	
EPA 6010	Boron	0.26	mg/L	0.10	12/02/23 13:12	
EPA 6010	Calcium	76.5	mg/L	1.0	12/02/23 13:12	
EPA 6010	Lithium	0.0069J	mg/L	0.020	12/02/23 13:12	
EPA 6020	Arsenic	0.0014	mg/L	0.0010	12/05/23 09:34	
EPA 6020	Barium	0.023	mg/L	0.0010	12/05/23 09:34	
EPA 6020	Cadmium	0.00019J	mg/L	0.00020	12/05/23 09:34	
EPA 6020	Chromium	0.00026J	mg/L	0.0020	12/05/23 09:34	
EPA 6020	Cobalt	0.00024J	mg/L	0.0010	12/05/23 09:34	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	12/05/23 09:34	
EPA 6020	Selenium	0.10	mg/L	0.0010	12/05/23 09:34	
SM 2540C	Total Dissolved Solids	297	mg/L	10.0	11/29/23 10:11	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	12/09/23 14:21	H3
50360534001	GAMW-17-112823					
EPA 9056	Chloride	5.4	mg/L	0.25	12/11/23 20:43	
EPA 9056	Fluoride	3.3	mg/L	0.050	12/11/23 20:43	
EPA 9056	Sulfate	134	mg/L	2.5	12/11/23 21:02	
EPA 6010	Boron	0.43	mg/L	0.10	12/08/23 22:30	
EPA 6010	Calcium	129	mg/L	1.0	12/08/23 22:30	
EPA 6010	Lithium	0.015J	mg/L	0.020	12/08/23 22:30	
EPA 6020	Antimony	0.0025	mg/L	0.0010	12/05/23 09:57	
EPA 6020	Arsenic	0.033	mg/L	0.0010	12/05/23 09:57	
EPA 6020	Barium	0.038	mg/L	0.0010	12/05/23 09:57	
EPA 6020	Cadmium	0.000082J	mg/L	0.00020	12/05/23 09:57	
EPA 6020	Chromium	0.00060J	mg/L	0.0020	12/05/23 09:57	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359718

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50360534001	GAMW-17-112823					
EPA 6020	Cobalt	0.00038J	mg/L	0.0010	12/05/23 09:57	
EPA 6020	Lead	0.00028J	mg/L	0.0010	12/05/23 09:57	
EPA 6020	Molybdenum	0.35	mg/L	0.0030	12/05/23 11:01	
EPA 6020	Selenium	0.12	mg/L	0.0010	12/05/23 09:57	
EPA 6020	Thallium	0.0012	mg/L	0.0010	12/05/23 09:57	
SM 2540C	Total Dissolved Solids	528	mg/L	10.0	12/01/23 14:11	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	12/13/23 13:04	H3
50360534002	GAMW-17B-112823					
EPA 9056	Chloride	6.0	mg/L	0.25	12/11/23 21:40	
EPA 9056	Fluoride	2.3	mg/L	0.050	12/11/23 21:40	
EPA 9056	Sulfate	117	mg/L	2.5	12/11/23 22:00	
EPA 6010	Boron	0.39	mg/L	0.10	12/08/23 22:32	
EPA 6010	Calcium	114	mg/L	1.0	12/08/23 22:32	
EPA 6010	Lithium	0.022	mg/L	0.020	12/08/23 22:32	
EPA 6020	Arsenic	0.021	mg/L	0.0010	12/05/23 10:01	
EPA 6020	Barium	0.036	mg/L	0.0010	12/05/23 10:01	
EPA 6020	Cadmium	0.000052J	mg/L	0.00020	12/05/23 10:01	
EPA 6020	Chromium	0.00058J	mg/L	0.0020	12/05/23 10:01	
EPA 6020	Cobalt	0.00016J	mg/L	0.0010	12/05/23 10:01	
EPA 6020	Lead	0.00024J	mg/L	0.0010	12/05/23 10:01	
EPA 6020	Molybdenum	0.41	mg/L	0.0030	12/05/23 11:05	
EPA 6020	Selenium	0.0026	mg/L	0.0010	12/05/23 10:01	
SM 2540C	Total Dissolved Solids	446	mg/L	10.0	12/01/23 14:11	
SM 4500-H+B	pH at 25 Degrees C	8.3	Std. Units	0.10	12/13/23 13:06	H3
50360534003	FB-03-112823					
EPA 9056	Chloride	0.097J	mg/L	0.25	12/11/23 23:17	
EPA 6020	Barium	0.00080J	mg/L	0.0010	12/05/23 08:35	
EPA 6020	Chromium	0.00032J	mg/L	0.0020	12/05/23 08:35	
EPA 6020	Lead	0.000093J	mg/L	0.0010	12/05/23 08:35	
SM 4500-H+B	pH at 25 Degrees C	8.3	Std. Units	0.10	12/13/23 13:06	H3
50360626001	MW-105-112923					
EPA 9056	Chloride	13.4	mg/L	0.25	12/12/23 05:10	
EPA 9056	Fluoride	0.77	mg/L	0.050	12/12/23 05:10	
EPA 9056	Sulfate	73.2	mg/L	2.5	12/12/23 05:28	
EPA 6010	Boron	0.19	mg/L	0.10	12/08/23 22:54	
EPA 6010	Calcium	80.9	mg/L	1.0	12/08/23 22:54	
EPA 6010	Lithium	0.0073J	mg/L	0.020	12/08/23 22:54	
EPA 6020	Antimony	0.0011	mg/L	0.0010	12/05/23 12:49	
EPA 6020	Arsenic	0.0022	mg/L	0.0010	12/05/23 12:49	
EPA 6020	Barium	0.027	mg/L	0.0010	12/05/23 12:49	
EPA 6020	Cadmium	0.000017J	mg/L	0.00020	12/05/23 12:49	
EPA 6020	Chromium	0.00039J	mg/L	0.0020	12/05/23 12:49	
EPA 6020	Cobalt	0.0010	mg/L	0.0010	12/05/23 12:49	
EPA 6020	Lead	0.000072J	mg/L	0.0010	12/05/23 12:49	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	12/05/23 12:49	
EPA 6020	Selenium	0.022	mg/L	0.0010	12/05/23 12:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment
 Pace Project No.: 50359718

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360626001	MW-105-112923					
EPA 6020	Thallium	0.0034	mg/L	0.0010	12/05/23 12:49	
SM 2540C	Total Dissolved Solids	482	mg/L	10.0	12/04/23 11:36	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	12/13/23 14:18	H3
50360626002	MW-112-112923					
EPA 9056	Chloride	14.3	mg/L	0.25	12/12/23 06:41	
EPA 9056	Fluoride	1.7	mg/L	0.050	12/12/23 06:41	
EPA 9056	Sulfate	59.7	mg/L	2.5	12/12/23 07:00	
EPA 6010	Boron	0.81	mg/L	0.10	12/08/23 22:59	
EPA 6010	Calcium	98.1	mg/L	1.0	12/08/23 22:59	
EPA 6020	Antimony	0.0027	mg/L	0.0010	12/05/23 12:52	
EPA 6020	Arsenic	0.067	mg/L	0.0010	12/05/23 12:52	
EPA 6020	Barium	0.078	mg/L	0.0010	12/05/23 12:52	
EPA 6020	Cadmium	0.00016J	mg/L	0.00020	12/05/23 12:52	
EPA 6020	Chromium	0.00090J	mg/L	0.0020	12/05/23 12:52	
EPA 6020	Cobalt	0.011	mg/L	0.0010	12/05/23 12:52	
EPA 6020	Lead	0.00010J	mg/L	0.0010	12/05/23 12:52	
EPA 6020	Molybdenum	0.12	mg/L	0.0010	12/05/23 12:52	
EPA 6020	Selenium	0.0030	mg/L	0.0010	12/05/23 12:52	
SM 2540C	Total Dissolved Solids	396	mg/L	10.0	12/04/23 11:36	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	12/13/23 14:19	H3
50360626003	GAMW-12R-112923					
EPA 9056	Chloride	9.0	mg/L	0.25	12/12/23 07:37	
EPA 9056	Fluoride	0.26	mg/L	0.050	12/12/23 07:37	
EPA 9056	Sulfate	259	mg/L	2.5	12/12/23 07:55	
EPA 6010	Boron	1.1	mg/L	0.10	12/08/23 23:00	
EPA 6010	Calcium	172	mg/L	1.0	12/08/23 23:00	
EPA 6010	Lithium	0.030	mg/L	0.020	12/08/23 23:00	
EPA 6020	Antimony	0.00071J	mg/L	0.0010	12/05/23 12:56	
EPA 6020	Arsenic	0.0020	mg/L	0.0010	12/05/23 12:56	
EPA 6020	Barium	0.069	mg/L	0.0010	12/05/23 12:56	
EPA 6020	Cadmium	0.000084J	mg/L	0.00020	12/05/23 12:56	
EPA 6020	Chromium	0.00042J	mg/L	0.0020	12/05/23 12:56	
EPA 6020	Cobalt	0.00034J	mg/L	0.0010	12/05/23 12:56	
EPA 6020	Molybdenum	0.061	mg/L	0.0010	12/05/23 12:56	
EPA 6020	Selenium	0.027	mg/L	0.0010	12/05/23 12:56	
EPA 6020	Thallium	0.00030J	mg/L	0.0010	12/05/23 12:56	
SM 2540C	Total Dissolved Solids	852	mg/L	10.0	12/04/23 11:36	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	12/13/23 14:19	H3
50360626004	FD-03-112923					
EPA 9056	Chloride	8.6	mg/L	0.25	12/12/23 08:32	
EPA 9056	Fluoride	0.26	mg/L	0.050	12/12/23 08:32	
EPA 9056	Sulfate	278	mg/L	2.5	12/12/23 08:50	
EPA 6010	Boron	1.1	mg/L	0.10	12/08/23 23:02	
EPA 6010	Calcium	174	mg/L	1.0	12/08/23 23:02	
EPA 6010	Lithium	0.031	mg/L	0.020	12/08/23 23:02	
EPA 6020	Antimony	0.00072J	mg/L	0.0010	12/05/23 12:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359718

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360626004	FD-03-112923					
EPA 6020	Arsenic	0.0021	mg/L	0.0010	12/05/23 12:59	
EPA 6020	Barium	0.068	mg/L	0.0010	12/05/23 12:59	
EPA 6020	Cadmium	0.000082J	mg/L	0.00020	12/05/23 12:59	
EPA 6020	Chromium	0.00044J	mg/L	0.0020	12/05/23 12:59	
EPA 6020	Cobalt	0.00036J	mg/L	0.0010	12/05/23 12:59	
EPA 6020	Molybdenum	0.061	mg/L	0.0010	12/05/23 12:59	
EPA 6020	Selenium	0.027	mg/L	0.0010	12/05/23 12:59	
EPA 6020	Thallium	0.00029J	mg/L	0.0010	12/05/23 12:59	
SM 2540C	Total Dissolved Solids	955	mg/L	10.0	12/04/23 11:37	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	12/13/23 14:20	H3
50360695001	GAMW-08-113023					
EPA 9056	Chloride	2.4	mg/L	0.25	12/12/23 10:03	
EPA 9056	Fluoride	1.0	mg/L	0.050	12/12/23 10:03	
EPA 9056	Sulfate	24.6	mg/L	0.25	12/12/23 10:03	
EPA 6010	Boron	0.43	mg/L	0.10	12/09/23 15:40	
EPA 6010	Calcium	79.5	mg/L	1.0	12/09/23 15:40	
EPA 6010	Lithium	0.019J	mg/L	0.020	12/09/23 15:40	1d
EPA 6020	Antimony	0.0015	mg/L	0.0010	12/05/23 10:46	
EPA 6020	Arsenic	0.0030	mg/L	0.0010	12/05/23 10:46	
EPA 6020	Barium	0.024	mg/L	0.0010	12/05/23 10:46	
EPA 6020	Cadmium	0.0012	mg/L	0.00020	12/05/23 10:46	
EPA 6020	Chromium	0.0027	mg/L	0.0020	12/05/23 10:46	
EPA 6020	Cobalt	0.00010J	mg/L	0.0010	12/05/23 10:46	
EPA 6020	Molybdenum	0.046	mg/L	0.0010	12/05/23 10:46	
EPA 6020	Selenium	0.021	mg/L	0.0010	12/05/23 10:46	
EPA 6020	Thallium	0.0026	mg/L	0.0010	12/05/23 10:46	
SM 2540C	Total Dissolved Solids	302	mg/L	10.0	12/04/23 11:38	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	12/15/23 15:54	H3

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359718

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_WSP Golder

Date: December 15, 2023

General Information:

35 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 765155

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50359951001

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

- MS (Lab ID: 3506642)
 - Sulfate
- MSD (Lab ID: 3506643)
 - Sulfate

QC Batch: 766566

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50359992003,50359992009

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

- MS (Lab ID: 3512181)
 - Sulfate

QC Batch: 766571

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50360317002,50360317012

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

- MS (Lab ID: 3512190)
 - Sulfate

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359718

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_WSP Golder

Date: December 15, 2023

QC Batch: 766571

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50360317002,50360317012

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

- MS (Lab ID: 3512192)
- Chloride

QC Batch: 767021

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50360520004

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

- MSD (Lab ID: 3514689)
- Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359718

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_WSP Golder

Date: December 15, 2023

General Information:

35 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 764447

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50359957003

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 3503968)
 - Calcium
- MSD (Lab ID: 3503969)
 - Calcium

QC Batch: 765708

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50360538003,50360614003

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 3508930)
 - Calcium
- MS (Lab ID: 3508932)
 - Calcium
- MSD (Lab ID: 3508931)
 - Calcium

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359718

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_WSP Golder

Date: December 15, 2023

QC Batch: 766007

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50360631003

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MSD (Lab ID: 3510231)
 - Calcium

Additional Comments:

Analyte Comments:

QC Batch: 764447

3d: The closing CRDL recovery exceeded acceptance limits (35% recovery) ELK 12/05/23

- FB-01-111623 (Lab ID: 50359957007)
 - Lithium
- FD-02-111623 (Lab ID: 50359957008)
 - Lithium
- GAMW-06-111623 (Lab ID: 50359957004)
 - Lithium
- GAMW-07-111623 (Lab ID: 50359957006)
 - Lithium
- GAMW-08B-111623 (Lab ID: 50359957001)
 - Lithium
- GAMW-10-111623 (Lab ID: 50359957005)
 - Lithium
- GAMW-13-111623 (Lab ID: 50359957003)
 - Lithium
- GAMW-14-111623 (Lab ID: 50359957002)
 - Lithium
- LCS (Lab ID: 3503967)
 - Lithium
- MS (Lab ID: 3503968)
 - Lithium
- MSD (Lab ID: 3503969)
 - Lithium

QC Batch: 766007

1d: The closing CRDL recovery exceeded acceptance limits (191% recovery). MTM 12/9/23

- BLANK (Lab ID: 3510228)
 - Lithium
- GAMW-08-113023 (Lab ID: 50360695001)
 - Lithium
- LCS (Lab ID: 3510229)
 - Lithium
- MS (Lab ID: 3510230)
 - Lithium

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PROJECT NARRATIVE

Project: Baily Assessment

Pace Project No.: 50359718

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_WSP Golder

Date: December 15, 2023

Analyte Comments:

QC Batch: 766007

1d: The closing CRDL recovery exceeded acceptance limits (191% recovery). MTM 12/9/23

- MSD (Lab ID: 3510231)

- Lithium

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359718

Method: EPA 6020

Description: 6020 MET ICPMS

Client: NiSource_WSP Golder

Date: December 15, 2023

General Information:

35 samples were analyzed for EPA 6020 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 765735

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50360631003

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

- MS (Lab ID: 3509042)
- Chromium

Additional Comments:

Analyte Comments:

QC Batch: 765501

C0: Result confirmed by second analysis.

- FB-02-112023 (Lab ID: 50360160004)
- Barium

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PROJECT NARRATIVE

Project: Baily Assessment

Pace Project No.: 50359718

Method: EPA 6020

Description: 6020 MET ICPMS

Client: NiSource_WSP Golder

Date: December 15, 2023

Analyte Comments:

QC Batch: 765501

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3508025)
 - Chromium
- MSD (Lab ID: 3508026)
 - Chromium

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359718

Method: EPA 7470

Description: 7470 Mercury

Client: NiSource_WSP Golder

Date: December 15, 2023

General Information:

35 samples were analyzed for EPA 7470 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359718

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_WSP Golder

Date: December 15, 2023

General Information:

35 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 764408

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-01-111623 (Lab ID: 50359957007)
- Total Dissolved Solids

QC Batch: 764796

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-02-112023 (Lab ID: 50360160004)
- Total Dissolved Solids

QC Batch: 765804

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-03-112823 (Lab ID: 50360534003)
- Total Dissolved Solids

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359718

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_WSP Golder

Date: December 15, 2023

General Information:

35 samples were analyzed for SM 4500-H+B by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

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

- FB-01-111623 (Lab ID: 50359957007)
- FB-02-112023 (Lab ID: 50360160004)
- FB-03-112823 (Lab ID: 50360534003)
- FD-01-111523 (Lab ID: 50359849006)
- FD-02-111623 (Lab ID: 50359957008)
- FD-03-112923 (Lab ID: 50360626004)
- GAMW-01-111423 (Lab ID: 50359718001)
- GAMW-01B-111423 (Lab ID: 50359718002)
- GAMW-02-111523 (Lab ID: 50359849003)
- GAMW-03-111523 (Lab ID: 50359849004)
- GAMW-04-111523 (Lab ID: 50359849005)
- GAMW-06-111623 (Lab ID: 50359957004)
- GAMW-07-111623 (Lab ID: 50359957006)
- GAMW-08-113023 (Lab ID: 50360695001)
- GAMW-08B-111623 (Lab ID: 50359957001)
- GAMW-10-111623 (Lab ID: 50359957005)
- GAMW-11-112723 (Lab ID: 50360446001)
- GAMW-11B-112723 (Lab ID: 50360446002)
- GAMW-11C-112723 (Lab ID: 50360446003)
- GAMW-12R-112923 (Lab ID: 50360626003)
- GAMW-13-111623 (Lab ID: 50359957003)
- GAMW-14-111623 (Lab ID: 50359957002)
- GAMW-16-112023 (Lab ID: 50360160003)
- GAMW-17-112823 (Lab ID: 50360534001)
- GAMW-17B-112823 (Lab ID: 50360534002)
- GAMW-18-112123 (Lab ID: 50360283003)
- GAMW-19-111523 (Lab ID: 50359849002)
- GAMW-20-111523 (Lab ID: 50359849001)
- GAMW-21-111423 (Lab ID: 50359718003)
- GAMW-22-112023 (Lab ID: 50360160001)
- GAMW-22B-112023 (Lab ID: 50360160002)
- GAMW-23-112123 (Lab ID: 50360283001)
- GAMW-23B-112123 (Lab ID: 50360283002)
- MW-105-112923 (Lab ID: 50360626001)
- MW-112-112923 (Lab ID: 50360626002)

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359718

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_WSP Golder

Date: December 15, 2023

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-01-111423** Lab ID: **50359718001** Collected: 11/14/23 13:00 Received: 11/15/23 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	3.2	mg/L	0.25	0.067	1		12/01/23 18:59	16887-00-6	
Fluoride	0.11	mg/L	0.050	0.017	1		12/01/23 18:59	16984-48-8	
Sulfate	45.9	mg/L	0.25	0.19	1		12/01/23 18:59	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.12	mg/L	0.10	0.011	1	11/21/23 08:07	11/22/23 10:24	7440-42-8	
Calcium	70.4	mg/L	1.0	0.057	1	11/21/23 08:07	11/22/23 10:24	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	11/21/23 08:07	11/22/23 10:24	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00078J	mg/L	0.0010	0.00049	1	11/16/23 15:15	11/19/23 21:49	7440-36-0	
Arsenic	0.00048J	mg/L	0.0010	0.000075	1	11/16/23 15:15	11/22/23 13:49	7440-38-2	
Barium	0.031	mg/L	0.0010	0.000077	1	11/16/23 15:15	11/19/23 21:49	7440-39-3	
Beryllium	0.000039J	mg/L	0.00020	0.000035	1	11/16/23 15:15	11/19/23 21:49	7440-41-7	
Cadmium	0.00052	mg/L	0.00020	0.000011	1	11/16/23 15:15	11/19/23 21:49	7440-43-9	
Chromium	0.00072J	mg/L	0.0020	0.00014	1	11/16/23 15:15	11/22/23 13:49	7440-47-3	
Cobalt	0.00023J	mg/L	0.0010	0.000046	1	11/16/23 15:15	11/22/23 13:49	7440-48-4	
Lead	0.000045J	mg/L	0.0010	0.000029	1	11/16/23 15:15	11/19/23 21:49	7439-92-1	
Molybdenum	0.033	mg/L	0.0010	0.000046	1	11/16/23 15:15	11/22/23 13:49	7439-98-7	
Selenium	0.015	mg/L	0.0010	0.00020	1	11/16/23 15:15	11/22/23 13:49	7782-49-2	
Thallium	0.0030	mg/L	0.0010	0.000040	1	11/16/23 15:15	11/19/23 21:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	11/28/23 12:31	11/28/23 19:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	286	mg/L	10.0	10.0	1		11/20/23 12:44		
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		11/30/23 16:57		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-01B-111423** Lab ID: **50359718002** Collected: 11/14/23 15:00 Received: 11/15/23 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.5	mg/L	0.25	0.067	1		12/01/23 20:31	16887-00-6	
Fluoride	1.6	mg/L	0.050	0.017	1		12/01/23 20:31	16984-48-8	
Sulfate	86.6	mg/L	2.5	1.9	10		12/01/23 20:49	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.28	mg/L	0.10	0.011	1	11/21/23 08:07	11/22/23 10:25	7440-42-8	
Calcium	112	mg/L	1.0	0.057	1	11/21/23 08:07	11/22/23 10:25	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	11/21/23 08:07	11/22/23 10:25	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00063J	mg/L	0.0010	0.00049	1	11/16/23 15:15	11/19/23 21:52	7440-36-0	
Arsenic	0.00091J	mg/L	0.0010	0.000075	1	11/16/23 15:15	11/22/23 13:53	7440-38-2	
Barium	0.025	mg/L	0.0010	0.000077	1	11/16/23 15:15	11/19/23 21:52	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/16/23 15:15	11/19/23 21:52	7440-41-7	
Cadmium	0.00071	mg/L	0.00020	0.000011	1	11/16/23 15:15	11/19/23 21:52	7440-43-9	
Chromium	0.00046J	mg/L	0.0020	0.00014	1	11/16/23 15:15	11/22/23 13:53	7440-47-3	
Cobalt	0.00060J	mg/L	0.0010	0.000046	1	11/16/23 15:15	11/22/23 13:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	11/16/23 15:15	11/19/23 21:52	7439-92-1	
Molybdenum	0.026	mg/L	0.0010	0.000046	1	11/16/23 15:15	11/22/23 13:53	7439-98-7	
Selenium	0.013	mg/L	0.0010	0.00020	1	11/16/23 15:15	11/22/23 13:53	7782-49-2	
Thallium	0.0032	mg/L	0.0010	0.000040	1	11/16/23 15:15	11/19/23 21:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	11/28/23 12:31	11/28/23 19:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	402	mg/L	10.0	10.0	1		11/20/23 12:45		
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		11/30/23 16:57		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: **GAMW-21-111423** Lab ID: **50359718003** Collected: 11/14/23 15:15 Received: 11/15/23 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	41.8	mg/L	2.5	0.67	10		12/01/23 21:44	16887-00-6	
Fluoride	0.33	mg/L	0.050	0.017	1		12/01/23 21:26	16984-48-8	
Sulfate	30.6	mg/L	0.25	0.19	1		12/01/23 21:26	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.096J	mg/L	0.10	0.011	1	11/21/23 08:07	11/22/23 10:27	7440-42-8	
Calcium	30.4	mg/L	1.0	0.057	1	11/21/23 08:07	11/22/23 10:27	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	11/21/23 08:07	11/22/23 10:27	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00049	1	11/16/23 15:15	11/19/23 21:56	7440-36-0	
Arsenic	0.0064	mg/L	0.0010	0.000075	1	11/16/23 15:15	11/22/23 14:09	7440-38-2	
Barium	0.016	mg/L	0.0010	0.000077	1	11/16/23 15:15	11/19/23 21:56	7440-39-3	
Beryllium	0.000039J	mg/L	0.00020	0.000035	1	11/16/23 15:15	11/19/23 21:56	7440-41-7	
Cadmium	0.00020J	mg/L	0.00020	0.000011	1	11/16/23 15:15	11/19/23 21:56	7440-43-9	
Chromium	0.0018J	mg/L	0.0020	0.00014	1	11/16/23 15:15	11/22/23 14:09	7440-47-3	
Cobalt	0.00078J	mg/L	0.0010	0.000046	1	11/16/23 15:15	11/22/23 14:09	7440-48-4	
Lead	0.00016J	mg/L	0.0010	0.000029	1	11/16/23 15:15	11/19/23 21:56	7439-92-1	
Molybdenum	1.9	mg/L	0.020	0.00092	20	11/16/23 15:15	11/22/23 13:56	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	11/16/23 15:15	11/22/23 14:09	7782-49-2	
Thallium	0.000054J	mg/L	0.0010	0.000040	1	11/16/23 15:15	11/19/23 21:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	11/28/23 12:31	11/28/23 19:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	202	mg/L	10.0	10.0	1		11/20/23 12:45		
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		11/30/23 17:00		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: **GAMW-20-111523** Lab ID: **50359849001** Collected: 11/15/23 11:50 Received: 11/16/23 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	25.5	mg/L	2.5	0.67	10		12/03/23 20:13	16887-00-6	
Fluoride	0.28	mg/L	0.050	0.017	1		12/03/23 19:54	16984-48-8	
Sulfate	40.2	mg/L	0.25	0.19	1		12/03/23 19:54	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.072J	mg/L	0.10	0.0062	1	11/26/23 17:51	11/30/23 21:55	7440-42-8	
Calcium	30.2	mg/L	1.0	0.068	1	11/26/23 17:51	11/30/23 21:55	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	11/26/23 17:51	11/30/23 21:55	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00018J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 13:16	7440-36-0	
Arsenic	0.0017	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 13:16	7440-38-2	
Barium	0.0092	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 13:16	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 13:16	7440-41-7	
Cadmium	0.000025J	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 13:16	7440-43-9	
Chromium	0.0017J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 13:16	7440-47-3	
Cobalt	0.00014J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 13:16	7440-48-4	
Lead	0.00039J	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 13:16	7439-92-1	
Molybdenum	0.032	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 13:16	7439-98-7	
Selenium	0.0028	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 13:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 13:16	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.00012	1	11/28/23 18:51	11/29/23 09:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	143	mg/L	10.0	10.0	1		11/21/23 08:25		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	8.4	Std. Units	0.10	0.10	1		12/04/23 12:48		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-19-111523** Lab ID: **50359849002** Collected: 11/15/23 14:00 Received: 11/16/23 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	20.2	mg/L	0.25	0.067	1		12/03/23 23:16	16887-00-6	
Fluoride	0.57	mg/L	0.050	0.017	1		12/03/23 23:16	16984-48-8	
Sulfate	68.5	mg/L	2.5	1.9	10		12/03/23 23:35	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.075J	mg/L	0.10	0.0062	1	11/26/23 17:51	11/30/23 22:01	7440-42-8	
Calcium	78.1	mg/L	1.0	0.068	1	11/26/23 17:51	11/30/23 22:01	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	11/26/23 17:51	11/30/23 22:01	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.000080J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 13:39	7440-36-0	
Arsenic	0.0013	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 13:39	7440-38-2	
Barium	0.027	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 13:39	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 13:39	7440-41-7	
Cadmium	0.000031J	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 13:39	7440-43-9	
Chromium	0.00033J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 13:39	7440-47-3	
Cobalt	0.00036J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 13:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 13:39	7439-92-1	
Molybdenum	0.051	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 13:39	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 13:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 13:39	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.00012	1	11/28/23 18:51	11/29/23 09:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	283	mg/L	10.0	10.0	1		11/21/23 08:26		
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		12/04/23 12:49		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: GAMW-02-111523 **Lab ID: 50359849003** Collected: 11/15/23 10:50 Received: 11/16/23 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.6	mg/L	0.25	0.067	1		12/04/23 00:11	16887-00-6	
Fluoride	2.4	mg/L	0.050	0.017	1		12/04/23 00:11	16984-48-8	
Sulfate	89.8	mg/L	2.5	1.9	10		12/04/23 00:30	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.19	mg/L	0.10	0.0062	1	11/26/23 17:51	11/30/23 22:03	7440-42-8	
Calcium	90.0	mg/L	1.0	0.068	1	11/26/23 17:51	11/30/23 22:03	7440-70-2	
Lithium	0.023	mg/L	0.020	0.0068	1	11/26/23 17:51	11/30/23 22:03	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00048J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 13:53	7440-36-0	
Arsenic	0.00070J	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 13:53	7440-38-2	
Barium	0.020	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 13:53	7440-39-3	
Beryllium	0.000029J	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 13:53	7440-41-7	
Cadmium	0.0014	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 13:53	7440-43-9	
Chromium	0.00082J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 13:53	7440-47-3	
Cobalt	0.00014J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 13:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 13:53	7439-92-1	
Molybdenum	0.015	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 13:53	7439-98-7	
Selenium	0.014	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 13:53	7782-49-2	
Thallium	0.0030	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 13:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.00012	1	11/28/23 18:51	11/29/23 09:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	305	mg/L	10.0	10.0	1		11/21/23 08:26		
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		12/04/23 12:50		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: GAMW-03-111523		Lab ID: 50359849004		Collected: 11/15/23 12:35	Received: 11/16/23 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	4.6	mg/L	0.25	0.067	1		12/04/23 01:06	16887-00-6	
Fluoride	2.0	mg/L	0.050	0.017	1		12/04/23 01:06	16984-48-8	
Sulfate	80.2	mg/L	2.5	1.9	10		12/04/23 01:25	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.22	mg/L	0.10	0.0062	1	11/26/23 17:51	11/30/23 22:04	7440-42-8	
Calcium	91.1	mg/L	1.0	0.068	1	11/26/23 17:51	11/30/23 22:04	7440-70-2	
Lithium	0.0080J	mg/L	0.020	0.0068	1	11/26/23 17:51	11/30/23 22:04	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00040J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 13:56	7440-36-0	
Arsenic	0.00045J	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 13:56	7440-38-2	
Barium	0.014	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 13:56	7440-39-3	
Beryllium	0.000033J	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 13:56	7440-41-7	
Cadmium	0.00088	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 13:56	7440-43-9	
Chromium	0.00070J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 13:56	7440-47-3	
Cobalt	0.00017J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 13:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 13:56	7439-92-1	
Molybdenum	0.017	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 13:56	7439-98-7	
Selenium	0.021	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 13:56	7782-49-2	
Thallium	0.0035	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 13:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.00012	1	11/28/23 18:51	11/29/23 09:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	331	mg/L	10.0	10.0	1		11/21/23 08:26		
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		12/04/23 12:50		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: GAMW-04-111523									
Lab ID: 50359849005									
Collected: 11/15/23 14:20 Received: 11/16/23 09:45 Matrix: Water									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	3.0	mg/L	0.25	0.067	1		12/04/23 02:38	16887-00-6	
Fluoride	0.15	mg/L	0.050	0.017	1		12/04/23 02:38	16984-48-8	
Sulfate	234	mg/L	2.5	1.9	10		12/04/23 02:57	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.43	mg/L	0.10	0.0062	1	11/26/23 17:51	11/30/23 22:08	7440-42-8	
Calcium	109	mg/L	1.0	0.068	1	11/26/23 17:51	11/30/23 22:08	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	11/26/23 17:51	11/30/23 22:08	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.000084J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:00	7440-36-0	
Arsenic	0.0035	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:00	7440-38-2	
Barium	0.029	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:00	7440-39-3	
Beryllium	0.000076J	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:00	7440-41-7	
Cadmium	0.00033	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:00	7440-43-9	
Chromium	0.0012J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:00	7440-47-3	
Cobalt	0.00026J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:00	7440-48-4	
Lead	0.00010J	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:00	7439-92-1	
Molybdenum	0.051	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:00	7439-98-7	
Selenium	0.00028J	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.00012	1	11/28/23 18:51	11/29/23 09:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	484	mg/L	10.0	10.0	1		11/21/23 08:26		
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		12/04/23 12:52		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: FD-01-111523		Lab ID: 50359849006		Collected: 11/15/23 12:00	Received: 11/16/23 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	20.5	mg/L	0.25	0.067	1		12/04/23 03:33	16887-00-6	
Fluoride	0.58	mg/L	0.050	0.017	1		12/04/23 03:33	16984-48-8	
Sulfate	66.8	mg/L	2.5	1.9	10		12/04/23 03:52	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.077J	mg/L	0.10	0.0062	1	11/26/23 17:51	11/30/23 22:10	7440-42-8	
Calcium	79.5	mg/L	1.0	0.068	1	11/26/23 17:51	11/30/23 22:10	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	11/26/23 17:51	11/30/23 22:10	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:03	7440-36-0	
Arsenic	0.0013	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:03	7440-38-2	
Barium	0.027	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:03	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:03	7440-41-7	
Cadmium	0.000028J	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:03	7440-43-9	
Chromium	0.00034J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:03	7440-47-3	
Cobalt	0.00035J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:03	7439-92-1	
Molybdenum	0.051	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:03	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:03	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.00012	1	11/28/23 18:51	11/29/23 09:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	308	mg/L	10.0	10.0	1		11/21/23 08:27		
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		12/04/23 12:53		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-08B-111623** Lab ID: **50359957001** Collected: 11/16/23 10:50 Received: 11/17/23 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.5	mg/L	0.25	0.067	1		12/04/23 19:11	16887-00-6	
Fluoride	0.72	mg/L	0.050	0.017	1		12/04/23 19:11	16984-48-8	
Sulfate	34.6	mg/L	0.25	0.19	1		12/04/23 19:11	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.30	mg/L	0.10	0.0062	1	11/27/23 16:18	12/04/23 11:09	7440-42-8	
Calcium	97.9	mg/L	1.0	0.068	1	11/27/23 16:18	12/04/23 11:09	7440-70-2	
Lithium	0.0090J	mg/L	0.020	0.0068	1	11/27/23 16:18	12/04/23 11:09	7439-93-2	3d
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00022J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:13	7440-36-0	
Arsenic	0.0020	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:13	7440-38-2	
Barium	0.021	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:13	7440-39-3	
Beryllium	0.000083J	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:13	7440-41-7	
Cadmium	0.0062	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:13	7440-43-9	
Chromium	0.0018J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:13	7440-47-3	
Cobalt	0.0044	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:13	7440-48-4	
Lead	0.000089J	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:13	7439-92-1	
Molybdenum	0.036	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:13	7439-98-7	
Selenium	0.0030	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:13	7782-49-2	
Thallium	0.011	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/01/23 11:55	12/03/23 20:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	349	mg/L	10.0	10.0	1		11/22/23 08:05		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	8.4	Std. Units	0.10	0.10	1		12/04/23 13:47		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: **GAMW-14-111623** Lab ID: **50359957002** Collected: 11/16/23 12:10 Received: 11/17/23 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	4.2	mg/L	0.25	0.067	1		12/04/23 21:38	16887-00-6	
Fluoride	0.21	mg/L	0.050	0.017	1		12/04/23 21:38	16984-48-8	
Sulfate	82.2	mg/L	2.5	1.9	10		12/04/23 21:56	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.29	mg/L	0.10	0.0062	1	11/27/23 16:18	12/04/23 11:10	7440-42-8	
Calcium	94.0	mg/L	1.0	0.068	1	11/27/23 16:18	12/04/23 11:10	7440-70-2	
Lithium	0.0074J	mg/L	0.020	0.0068	1	11/27/23 16:18	12/04/23 11:10	7439-93-2	3d
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00039J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:17	7440-36-0	
Arsenic	0.0034	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:17	7440-38-2	
Barium	0.032	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:17	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:17	7440-41-7	
Cadmium	0.00020J	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:17	7440-43-9	
Chromium	0.00034J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:17	7440-47-3	
Cobalt	0.00076J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:17	7439-92-1	
Molybdenum	0.016	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:17	7439-98-7	
Selenium	0.0072	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:17	7782-49-2	
Thallium	0.00091J	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/01/23 11:55	12/03/23 20:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	339	mg/L	10.0	10.0	1		11/22/23 08:05		
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		12/05/23 12:29		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-13-111623** Lab ID: **50359957003** Collected: 11/16/23 13:55 Received: 11/17/23 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.4	mg/L	0.25	0.067	1		12/04/23 22:33	16887-00-6	
Fluoride	0.13	mg/L	0.050	0.017	1		12/04/23 22:33	16984-48-8	
Sulfate	132	mg/L	2.5	1.9	10		12/04/23 22:51	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.60	mg/L	0.10	0.0062	1	11/27/23 16:18	12/04/23 11:12	7440-42-8	
Calcium	188	mg/L	1.0	0.068	1	11/27/23 16:18	12/04/23 11:12	7440-70-2	
Lithium	0.011J	mg/L	0.020	0.0068	1	11/27/23 16:18	12/04/23 11:12	7439-93-2	3d
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00058J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:20	7440-36-0	
Arsenic	0.0011	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:20	7440-38-2	
Barium	0.055	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:20	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:20	7440-41-7	
Cadmium	0.000042J	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:20	7440-43-9	
Chromium	0.00036J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:20	7440-47-3	
Cobalt	0.00088J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:20	7439-92-1	
Molybdenum	0.010	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:20	7439-98-7	
Selenium	0.013	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:20	7782-49-2	
Thallium	0.00044J	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/01/23 11:55	12/03/23 20:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	638	mg/L	10.0	10.0	1		11/22/23 08:06		
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		12/05/23 12:30		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: GAMW-06-111623		Lab ID: 50359957004		Collected: 11/16/23 11:00		Received: 11/17/23 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.5	mg/L	0.25	0.067	1		12/05/23 00:05	16887-00-6	
Fluoride	0.94	mg/L	0.050	0.017	1		12/05/23 00:05	16984-48-8	
Sulfate	45.8	mg/L	0.25	0.19	1		12/05/23 00:05	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.12	mg/L	0.10	0.0062	1	11/27/23 16:18	12/04/23 11:21	7440-42-8	
Calcium	91.3	mg/L	1.0	0.068	1	11/27/23 16:18	12/04/23 11:21	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	11/27/23 16:18	12/04/23 11:21	7439-93-2	3d
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0012	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:24	7440-36-0	
Arsenic	0.0010	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:24	7440-38-2	
Barium	0.021	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:24	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:24	7440-41-7	
Cadmium	0.00043	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:24	7440-43-9	
Chromium	0.00046J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:24	7440-47-3	
Cobalt	0.00022J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:24	7439-92-1	
Molybdenum	0.046	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:24	7439-98-7	
Selenium	0.012	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:24	7782-49-2	
Thallium	0.0043	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/01/23 11:55	12/03/23 20:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	278	mg/L	10.0	10.0	1		11/22/23 08:06		
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		12/05/23 12:31		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-10-111623** Lab ID: **50359957005** Collected: 11/16/23 13:00 Received: 11/17/23 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.7	mg/L	0.25	0.067	1		12/05/23 01:00	16887-00-6	
Fluoride	4.0	mg/L	0.050	0.017	1		12/05/23 01:00	16984-48-8	
Sulfate	82.4	mg/L	2.5	1.9	10		12/05/23 01:18	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.17	mg/L	0.10	0.0062	1	11/27/23 16:18	12/04/23 11:23	7440-42-8	
Calcium	68.1	mg/L	1.0	0.068	1	11/27/23 16:18	12/04/23 11:23	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	11/27/23 16:18	12/04/23 11:23	7439-93-2	3d
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00040J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:37	7440-36-0	
Arsenic	0.00042J	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:37	7440-38-2	
Barium	0.015	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:37	7440-39-3	
Beryllium	0.000041J	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:37	7440-41-7	
Cadmium	0.00040	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:37	7440-43-9	
Chromium	0.00084J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:37	7440-47-3	
Cobalt	0.00010J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:37	7439-92-1	
Molybdenum	0.016	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:37	7439-98-7	
Selenium	0.0076	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:37	7782-49-2	
Thallium	0.0030	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/01/23 11:55	12/03/23 20:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	228	mg/L	10.0	10.0	1		11/22/23 08:06		
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		12/05/23 12:32		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: GAMW-07-111623 **Lab ID: 50359957006** Collected: 11/16/23 15:00 Received: 11/17/23 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.8	mg/L	0.25	0.067	1		12/05/23 01:55	16887-00-6	
Fluoride	2.0	mg/L	0.050	0.017	1		12/05/23 01:55	16984-48-8	
Sulfate	27.5	mg/L	0.25	0.19	1		12/05/23 01:55	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.081J	mg/L	0.10	0.0062	1	11/27/23 16:18	12/04/23 11:24	7440-42-8	
Calcium	77.4	mg/L	1.0	0.068	1	11/27/23 16:18	12/04/23 11:24	7440-70-2	
Lithium	0.022	mg/L	0.020	0.0068	1	11/27/23 16:18	12/04/23 11:24	7439-93-2	3d
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00032J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:41	7440-36-0	
Arsenic	0.0032	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:41	7440-38-2	
Barium	0.0085	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:41	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:41	7440-41-7	
Cadmium	0.00020J	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:41	7440-43-9	
Chromium	0.00048J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:41	7440-47-3	
Cobalt	0.00035J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:41	7439-92-1	
Molybdenum	0.017	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:41	7439-98-7	
Selenium	0.00074J	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:41	7782-49-2	
Thallium	0.0032	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/01/23 11:55	12/03/23 20:17	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	235	mg/L	10.0	10.0	1		11/22/23 08:06		
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		12/05/23 12:32		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: FB-01-111623		Lab ID: 50359957007		Collected: 11/16/23 12:30	Received: 11/17/23 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	0.067	1		12/05/23 03:27	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		12/05/23 03:27	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		12/05/23 03:27	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	0.0062	1	11/27/23 16:18	12/04/23 11:26	7440-42-8	
Calcium	ND	mg/L	1.0	0.068	1	11/27/23 16:18	12/04/23 11:26	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	11/27/23 16:18	12/04/23 11:26	7439-93-2	3d
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:44	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:44	7440-38-2	
Barium	0.00063J	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:44	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:44	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:44	7440-43-9	
Chromium	0.00024J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:44	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:44	7440-48-4	
Lead	0.000096J	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:44	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:44	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:44	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 18:19	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		11/22/23 08:07		PL
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		12/05/23 12:33		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: FD-02-111623		Lab ID: 50359957008		Collected: 11/16/23 12:00	Received: 11/17/23 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.7	mg/L	0.25	0.067	1		12/05/23 04:22	16887-00-6	
Fluoride	4.0	mg/L	0.050	0.017	1		12/05/23 04:22	16984-48-8	
Sulfate	83.2	mg/L	2.5	1.9	10		12/05/23 04:40	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.17	mg/L	0.10	0.0062	1	11/27/23 16:18	12/04/23 11:27	7440-42-8	
Calcium	69.1	mg/L	1.0	0.068	1	11/27/23 16:18	12/04/23 11:27	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	11/27/23 16:18	12/04/23 11:27	7439-93-2	3d
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00040J	mg/L	0.0010	0.000080	1	11/27/23 07:13	11/29/23 14:48	7440-36-0	
Arsenic	0.00046J	mg/L	0.0010	0.00012	1	11/27/23 07:13	11/29/23 14:48	7440-38-2	
Barium	0.015	mg/L	0.0010	0.000065	1	11/27/23 07:13	11/29/23 14:48	7440-39-3	
Beryllium	0.000041J	mg/L	0.00020	0.000026	1	11/27/23 07:13	11/29/23 14:48	7440-41-7	
Cadmium	0.00041	mg/L	0.00020	0.000016	1	11/27/23 07:13	11/29/23 14:48	7440-43-9	
Chromium	0.00092J	mg/L	0.0020	0.00018	1	11/27/23 07:13	11/29/23 14:48	7440-47-3	
Cobalt	0.000097J	mg/L	0.0010	0.000071	1	11/27/23 07:13	11/29/23 14:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	11/27/23 07:13	11/29/23 14:48	7439-92-1	
Molybdenum	0.016	mg/L	0.0010	0.000074	1	11/27/23 07:13	11/29/23 14:48	7439-98-7	
Selenium	0.0077	mg/L	0.0010	0.00019	1	11/27/23 07:13	11/29/23 14:48	7782-49-2	
Thallium	0.0030	mg/L	0.0010	0.000060	1	11/27/23 07:13	11/29/23 14:48	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 18:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	228	mg/L	10.0	10.0	1		11/22/23 08:07		
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		12/05/23 12:34		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-22-112023** Lab ID: **50360160001** Collected: 11/20/23 10:15 Received: 11/21/23 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	16.0	mg/L	0.25	0.067	1		12/07/23 09:58	16887-00-6	
Fluoride	0.84	mg/L	0.050	0.017	1		12/07/23 09:58	16984-48-8	
Sulfate	42.5	mg/L	0.25	0.19	1		12/07/23 09:58	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.13	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 12:47	7440-42-8	
Calcium	41.4	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 12:47	7440-70-2	
Lithium	0.012J	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 12:47	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00054J	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 08:49	7440-36-0	
Arsenic	0.0045	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 08:49	7440-38-2	
Barium	0.0087	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 08:49	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 08:49	7440-41-7	
Cadmium	0.00029	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 08:49	7440-43-9	
Chromium	0.0090	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 08:49	7440-47-3	
Cobalt	0.000087J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:49	7440-48-4	
Lead	0.000035J	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 08:49	7439-92-1	
Molybdenum	0.0084	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:49	7439-98-7	
Selenium	0.0040	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 08:49	7782-49-2	
Thallium	0.0048	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 08:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 17:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	175	mg/L	10.0	10.0	1		11/27/23 12:08		
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		12/07/23 13:55		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: GAMW-22B-112023 **Lab ID: 50360160002** Collected: 11/20/23 11:35 Received: 11/21/23 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	70.3	mg/L	2.5	0.67	10		12/07/23 11:15	16887-00-6	
Fluoride	1.6	mg/L	0.050	0.017	1		12/07/23 10:56	16984-48-8	
Sulfate	47.5	mg/L	0.25	0.19	1		12/07/23 10:56	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.26	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 12:48	7440-42-8	
Calcium	62.4	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 12:48	7440-70-2	
Lithium	0.018J	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 12:48	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0014	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 08:52	7440-36-0	
Arsenic	0.00062J	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 08:52	7440-38-2	
Barium	0.028	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 08:52	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 08:52	7440-41-7	
Cadmium	0.010	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 08:52	7440-43-9	
Chromium	0.0036	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 08:52	7440-47-3	
Cobalt	0.0033	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:52	7440-48-4	
Lead	0.000095J	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 08:52	7439-92-1	
Molybdenum	0.042	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:52	7439-98-7	
Selenium	0.0031	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 08:52	7782-49-2	
Thallium	0.013	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 08:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 17:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	477	mg/L	10.0	10.0	1		11/27/23 12:08		
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		12/07/23 13:55		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: **GAMW-16-112023** Lab ID: **50360160003** Collected: 11/20/23 13:05 Received: 11/21/23 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	6.8	mg/L	0.25	0.067	1		12/07/23 11:35	16887-00-6	
Fluoride	0.84	mg/L	0.050	0.017	1		12/07/23 11:35	16984-48-8	
Sulfate	105	mg/L	2.5	1.9	10		12/07/23 11:54	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.2	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 12:49	7440-42-8	
Calcium	106	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 12:49	7440-70-2	
Lithium	0.091	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 12:49	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00084J	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 08:56	7440-36-0	
Arsenic	0.021	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 08:56	7440-38-2	
Barium	0.015	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 08:56	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 08:56	7440-41-7	
Cadmium	0.0032	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 08:56	7440-43-9	
Chromium	0.0017J	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 08:56	7440-47-3	
Cobalt	0.00062J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:56	7440-48-4	
Lead	0.000052J	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 08:56	7439-92-1	
Molybdenum	0.026	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:56	7439-98-7	
Selenium	0.025	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 08:56	7782-49-2	
Thallium	0.0047	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 08:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 17:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	430	mg/L	10.0	10.0	1		11/27/23 12:09		
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		12/07/23 13:56		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: FB-02-112023		Lab ID: 50360160004		Collected: 11/20/23 13:20	Received: 11/21/23 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	ND	mg/L	0.25	0.067	1		12/07/23 16:43	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		12/07/23 16:43	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		12/07/23 16:43	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 12:51	7440-42-8	
Calcium	ND	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 12:51	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 12:51	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 08:32	7440-36-0	
Arsenic	0.00087J	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 08:32	7440-38-2	
Barium	0.0017	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 08:32	7440-39-3	C0
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 08:32	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 08:32	7440-43-9	
Chromium	0.00030J	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 08:32	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:32	7440-48-4	
Lead	0.000074J	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 08:32	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:32	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 08:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 08:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 17:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		11/27/23 12:09		PL
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	8.4	Std. Units	0.10	0.10	1		12/07/23 13:57		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-23-112123** Lab ID: **50360283001** Collected: 11/21/23 10:35 Received: 11/22/23 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	18.6	mg/L	0.25	0.067	1		12/11/23 20:01	16887-00-6	
Fluoride	1.1	mg/L	0.050	0.017	1		12/11/23 20:01	16984-48-8	
Sulfate	112	mg/L	2.5	1.9	10		12/11/23 20:20	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.12	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 12:57	7440-42-8	
Calcium	29.0	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 12:57	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 12:57	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00077J	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 09:06	7440-36-0	
Arsenic	0.0020	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 09:06	7440-38-2	
Barium	0.016	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 09:06	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 09:06	7440-41-7	
Cadmium	0.000047J	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 09:06	7440-43-9	
Chromium	0.017	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 09:06	7440-47-3	
Cobalt	0.00024J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:06	7440-48-4	
Lead	0.000040J	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 09:06	7439-92-1	
Molybdenum	0.028	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:06	7439-98-7	
Selenium	0.0053	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 09:06	7782-49-2	
Thallium	0.0040	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 09:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 17:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	277	mg/L	10.0	10.0	1		11/28/23 11:04		
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		12/07/23 14:41		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-23B-112123** Lab ID: **50360283002** Collected: 11/21/23 12:05 Received: 11/22/23 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	95.3	mg/L	2.5	0.67	10		12/11/23 21:37	16887-00-6	
Fluoride	1.9	mg/L	0.050	0.017	1		12/11/23 21:18	16984-48-8	
Sulfate	50.6	mg/L	2.5	1.9	10		12/11/23 21:37	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.19	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 12:58	7440-42-8	
Calcium	59.7	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 12:58	7440-70-2	
Lithium	0.012J	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 12:58	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 09:09	7440-36-0	
Arsenic	0.0061	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 09:09	7440-38-2	
Barium	0.029	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 09:09	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 09:09	7440-41-7	
Cadmium	0.000046J	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 09:09	7440-43-9	
Chromium	0.00036J	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 09:09	7440-47-3	
Cobalt	0.00016J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:09	7440-48-4	
Lead	0.00023J	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 09:09	7439-92-1	
Molybdenum	0.28	mg/L	0.0020	0.000092	2	11/30/23 16:36	12/05/23 10:58	7439-98-7	
Selenium	0.0034	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 09:09	7782-49-2	
Thallium	0.00015J	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 09:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 17:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	473	mg/L	10.0	10.0	1		11/28/23 11:04		
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		12/07/23 14:42		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-18-112123** Lab ID: **50360283003** Collected: 11/21/23 13:20 Received: 11/22/23 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	3.9	mg/L	0.25	0.067	1		12/11/23 21:56	16887-00-6	
Fluoride	1.5	mg/L	0.050	0.017	1		12/11/23 21:56	16984-48-8	
Sulfate	31.4	mg/L	0.25	0.19	1		12/11/23 21:56	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.16	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 13:03	7440-42-8	
Calcium	84.0	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 13:03	7440-70-2	
Lithium	0.010J	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 13:03	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0013	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 09:13	7440-36-0	
Arsenic	0.0011	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 09:13	7440-38-2	
Barium	0.033	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 09:13	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 09:13	7440-41-7	
Cadmium	0.000090J	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 09:13	7440-43-9	
Chromium	0.00046J	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 09:13	7440-47-3	
Cobalt	0.00020J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 09:13	7439-92-1	
Molybdenum	0.029	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:13	7439-98-7	
Selenium	0.011	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 09:13	7782-49-2	
Thallium	0.0029	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 09:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 17:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	295	mg/L	10.0	10.0	1		11/28/23 11:05		
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		12/07/23 14:43		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-11-112723** Lab ID: **50360446001** Collected: 11/27/23 10:30 Received: 11/28/23 09:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.3	mg/L	0.25	0.067	1		12/08/23 04:16	16887-00-6	
Fluoride	1.9	mg/L	0.050	0.017	1		12/08/23 04:16	16984-48-8	
Sulfate	51.6	mg/L	2.5	1.9	10		12/08/23 04:34	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.25	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 13:09	7440-42-8	
Calcium	67.8	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 13:09	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 13:09	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 09:26	7440-36-0	
Arsenic	0.0034	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 09:26	7440-38-2	
Barium	0.026	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 09:26	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 09:26	7440-41-7	
Cadmium	0.000047J	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 09:26	7440-43-9	
Chromium	0.0040	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 09:26	7440-47-3	
Cobalt	0.00013J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 09:26	7439-92-1	
Molybdenum	0.098	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:26	7439-98-7	
Selenium	0.24	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 09:26	7782-49-2	
Thallium	0.000092J	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 09:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 18:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	224	mg/L	10.0	10.0	1		11/29/23 10:11		
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		12/09/23 14:10		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: **GAMW-11B-112723** Lab ID: **50360446002** Collected: 11/27/23 11:50 Received: 11/28/23 09:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	79.8	mg/L	2.5	0.67	10		12/08/23 05:29	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		12/08/23 05:11	16984-48-8	
Sulfate	91.3	mg/L	2.5	1.9	10		12/08/23 05:29	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.36	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 13:10	7440-42-8	
Calcium	149	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 13:10	7440-70-2	
Lithium	0.0062J	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 13:10	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 09:30	7440-36-0	
Arsenic	0.00081J	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 09:30	7440-38-2	
Barium	0.23	mg/L	0.0020	0.00015	2	11/30/23 16:36	12/05/23 10:54	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 09:30	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 09:30	7440-43-9	
Chromium	0.00063J	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 09:30	7440-47-3	
Cobalt	0.00028J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 09:30	7439-92-1	
Molybdenum	0.0072	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:30	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 09:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 09:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 18:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	626	mg/L	10.0	10.0	1		11/29/23 10:11		
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		12/09/23 14:11		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-11C-112723** Lab ID: **50360446003** Collected: 11/27/23 13:05 Received: 11/28/23 09:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	7.7	mg/L	0.25	0.067	1		12/08/23 07:12	16887-00-6	
Fluoride	0.65	mg/L	0.050	0.017	1		12/08/23 07:12	16984-48-8	
Sulfate	61.6	mg/L	2.5	1.9	10		12/08/23 07:28	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.26	mg/L	0.10	0.011	1	11/29/23 08:07	12/02/23 13:12	7440-42-8	
Calcium	76.5	mg/L	1.0	0.057	1	11/29/23 08:07	12/02/23 13:12	7440-70-2	
Lithium	0.0069J	mg/L	0.020	0.0051	1	11/29/23 08:07	12/02/23 13:12	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 09:34	7440-36-0	
Arsenic	0.0014	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 09:34	7440-38-2	
Barium	0.023	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 09:34	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 09:34	7440-41-7	
Cadmium	0.00019J	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 09:34	7440-43-9	
Chromium	0.00026J	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 09:34	7440-47-3	
Cobalt	0.00024J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 09:34	7439-92-1	
Molybdenum	0.016	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:34	7439-98-7	
Selenium	0.10	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 09:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 09:34	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/04/23 11:41	12/04/23 18:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	297	mg/L	10.0	10.0	1		11/29/23 10:11		
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		12/09/23 14:21		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-17-112823** Lab ID: **50360534001** Collected: 11/28/23 10:40 Received: 11/29/23 09:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.4	mg/L	0.25	0.067	1		12/11/23 20:43	16887-00-6	
Fluoride	3.3	mg/L	0.050	0.017	1		12/11/23 20:43	16984-48-8	
Sulfate	134	mg/L	2.5	1.9	10		12/11/23 21:02	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.43	mg/L	0.10	0.0062	1	12/01/23 08:04	12/08/23 22:30	7440-42-8	
Calcium	129	mg/L	1.0	0.068	1	12/01/23 08:04	12/08/23 22:30	7440-70-2	
Lithium	0.015J	mg/L	0.020	0.0068	1	12/01/23 08:04	12/08/23 22:30	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0025	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 09:57	7440-36-0	
Arsenic	0.033	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 09:57	7440-38-2	
Barium	0.038	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 09:57	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 09:57	7440-41-7	
Cadmium	0.000082J	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 09:57	7440-43-9	
Chromium	0.00060J	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 09:57	7440-47-3	
Cobalt	0.00038J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 09:57	7440-48-4	
Lead	0.00028J	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 09:57	7439-92-1	
Molybdenum	0.35	mg/L	0.0030	0.00014	3	11/30/23 16:36	12/05/23 11:01	7439-98-7	
Selenium	0.12	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 09:57	7782-49-2	
Thallium	0.0012	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 09:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/06/23 10:54	12/07/23 17:26	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	528	mg/L	10.0	10.0	1		12/01/23 14:11		
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		12/13/23 13:04		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **GAMW-17B-112823** Lab ID: **50360534002** Collected: 11/28/23 13:20 Received: 11/29/23 09:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	6.0	mg/L	0.25	0.067	1		12/11/23 21:40	16887-00-6	
Fluoride	2.3	mg/L	0.050	0.017	1		12/11/23 21:40	16984-48-8	
Sulfate	117	mg/L	2.5	1.9	10		12/11/23 22:00	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.39	mg/L	0.10	0.0062	1	12/01/23 08:04	12/08/23 22:32	7440-42-8	
Calcium	114	mg/L	1.0	0.068	1	12/01/23 08:04	12/08/23 22:32	7440-70-2	
Lithium	0.022	mg/L	0.020	0.0068	1	12/01/23 08:04	12/08/23 22:32	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 10:01	7440-36-0	
Arsenic	0.021	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 10:01	7440-38-2	
Barium	0.036	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 10:01	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 10:01	7440-41-7	
Cadmium	0.000052J	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 10:01	7440-43-9	
Chromium	0.00058J	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 10:01	7440-47-3	
Cobalt	0.00016J	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 10:01	7440-48-4	
Lead	0.00024J	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 10:01	7439-92-1	
Molybdenum	0.41	mg/L	0.0030	0.00014	3	11/30/23 16:36	12/05/23 11:05	7439-98-7	
Selenium	0.0026	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 10:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 10:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/06/23 10:54	12/07/23 17:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	446	mg/L	10.0	10.0	1		12/01/23 14:11		
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	8.3	Std. Units	0.10	0.10	1		12/13/23 13:06		H3

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ANALYTICAL RESULTS

Project: Baily Assessment
 Pace Project No.: 50359718

Sample: FB-03-112823		Lab ID: 50360534003		Collected: 11/28/23 10:50	Received: 11/29/23 09:05	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	0.097J	mg/L	0.25	0.067	1		12/11/23 23:17	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		12/11/23 23:17	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		12/11/23 23:17	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	0.0062	1	12/01/23 08:04	12/08/23 22:33	7440-42-8	
Calcium	ND	mg/L	1.0	0.068	1	12/01/23 08:04	12/08/23 22:33	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	12/01/23 08:04	12/08/23 22:33	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	0.00049	1	11/30/23 16:36	12/05/23 08:35	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.000075	1	11/30/23 16:36	12/05/23 08:35	7440-38-2	
Barium	0.00080J	mg/L	0.0010	0.000077	1	11/30/23 16:36	12/05/23 08:35	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	11/30/23 16:36	12/05/23 08:35	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	11/30/23 16:36	12/05/23 08:35	7440-43-9	
Chromium	0.00032J	mg/L	0.0020	0.00014	1	11/30/23 16:36	12/05/23 08:35	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:35	7440-48-4	
Lead	0.000093J	mg/L	0.0010	0.000029	1	11/30/23 16:36	12/05/23 08:35	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000046	1	11/30/23 16:36	12/05/23 08:35	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	11/30/23 16:36	12/05/23 08:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	11/30/23 16:36	12/05/23 08:35	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/06/23 10:54	12/07/23 17:39	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		12/01/23 14:11		PL
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	8.3	Std. Units	0.10	0.10	1		12/13/23 13:06		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: MW-105-112923		Lab ID: 50360626001		Collected: 11/29/23 10:30		Received: 11/30/23 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	13.4	mg/L	0.25	0.067	1		12/12/23 05:10	16887-00-6	
Fluoride	0.77	mg/L	0.050	0.017	1		12/12/23 05:10	16984-48-8	
Sulfate	73.2	mg/L	2.5	1.9	10		12/12/23 05:28	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.19	mg/L	0.10	0.0062	1	12/01/23 08:04	12/08/23 22:54	7440-42-8	
Calcium	80.9	mg/L	1.0	0.068	1	12/01/23 08:04	12/08/23 22:54	7440-70-2	
Lithium	0.0073J	mg/L	0.020	0.0068	1	12/01/23 08:04	12/08/23 22:54	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0011	mg/L	0.0010	0.000080	1	12/01/23 15:36	12/05/23 12:49	7440-36-0	
Arsenic	0.0022	mg/L	0.0010	0.00012	1	12/01/23 15:36	12/05/23 12:49	7440-38-2	
Barium	0.027	mg/L	0.0010	0.000065	1	12/01/23 15:36	12/05/23 12:49	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	12/01/23 15:36	12/05/23 12:49	7440-41-7	
Cadmium	0.000017J	mg/L	0.00020	0.000016	1	12/01/23 15:36	12/05/23 12:49	7440-43-9	
Chromium	0.00039J	mg/L	0.0020	0.00018	1	12/01/23 15:36	12/05/23 12:49	7440-47-3	
Cobalt	0.0010	mg/L	0.0010	0.000071	1	12/01/23 15:36	12/05/23 12:49	7440-48-4	
Lead	0.000072J	mg/L	0.0010	0.000068	1	12/01/23 15:36	12/05/23 12:49	7439-92-1	
Molybdenum	0.011	mg/L	0.0010	0.000074	1	12/01/23 15:36	12/05/23 12:49	7439-98-7	
Selenium	0.022	mg/L	0.0010	0.00019	1	12/01/23 15:36	12/05/23 12:49	7782-49-2	
Thallium	0.0034	mg/L	0.0010	0.000060	1	12/01/23 15:36	12/05/23 12:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/08/23 10:02	12/10/23 17:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	482	mg/L	10.0	10.0	1		12/04/23 11:36		
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		12/13/23 14:18		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: MW-112-112923 Lab ID: 50360626002 Collected: 11/29/23 11:50 Received: 11/30/23 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	14.3	mg/L	0.25	0.067	1		12/12/23 06:41	16887-00-6	
Fluoride	1.7	mg/L	0.050	0.017	1		12/12/23 06:41	16984-48-8	
Sulfate	59.7	mg/L	2.5	1.9	10		12/12/23 07:00	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.81	mg/L	0.10	0.0062	1	12/01/23 08:04	12/08/23 22:59	7440-42-8	
Calcium	98.1	mg/L	1.0	0.068	1	12/01/23 08:04	12/08/23 22:59	7440-70-2	
Lithium	ND	mg/L	0.020	0.0068	1	12/01/23 08:04	12/08/23 22:59	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0027	mg/L	0.0010	0.000080	1	12/01/23 15:36	12/05/23 12:52	7440-36-0	
Arsenic	0.067	mg/L	0.0010	0.00012	1	12/01/23 15:36	12/05/23 12:52	7440-38-2	
Barium	0.078	mg/L	0.0010	0.000065	1	12/01/23 15:36	12/05/23 12:52	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	12/01/23 15:36	12/05/23 12:52	7440-41-7	
Cadmium	0.00016J	mg/L	0.00020	0.000016	1	12/01/23 15:36	12/05/23 12:52	7440-43-9	
Chromium	0.00090J	mg/L	0.0020	0.00018	1	12/01/23 15:36	12/05/23 12:52	7440-47-3	
Cobalt	0.011	mg/L	0.0010	0.000071	1	12/01/23 15:36	12/05/23 12:52	7440-48-4	
Lead	0.00010J	mg/L	0.0010	0.000068	1	12/01/23 15:36	12/05/23 12:52	7439-92-1	
Molybdenum	0.12	mg/L	0.0010	0.000074	1	12/01/23 15:36	12/05/23 12:52	7439-98-7	
Selenium	0.0030	mg/L	0.0010	0.00019	1	12/01/23 15:36	12/05/23 12:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	12/01/23 15:36	12/05/23 12:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/08/23 10:02	12/10/23 17:32	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	396	mg/L	10.0	10.0	1		12/04/23 11:36		
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		12/13/23 14:19		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment
Pace Project No.: 50359718

Sample: GAMW-12R-112923		Lab ID: 50360626003		Collected: 11/29/23 13:00		Received: 11/30/23 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	9.0	mg/L	0.25	0.067	1		12/12/23 07:37	16887-00-6	
Fluoride	0.26	mg/L	0.050	0.017	1		12/12/23 07:37	16984-48-8	
Sulfate	259	mg/L	2.5	1.9	10		12/12/23 07:55	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.1	mg/L	0.10	0.0062	1	12/01/23 08:04	12/08/23 23:00	7440-42-8	
Calcium	172	mg/L	1.0	0.068	1	12/01/23 08:04	12/08/23 23:00	7440-70-2	
Lithium	0.030	mg/L	0.020	0.0068	1	12/01/23 08:04	12/08/23 23:00	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00071J	mg/L	0.0010	0.000080	1	12/01/23 15:36	12/05/23 12:56	7440-36-0	
Arsenic	0.0020	mg/L	0.0010	0.00012	1	12/01/23 15:36	12/05/23 12:56	7440-38-2	
Barium	0.069	mg/L	0.0010	0.000065	1	12/01/23 15:36	12/05/23 12:56	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	12/01/23 15:36	12/05/23 12:56	7440-41-7	
Cadmium	0.000084J	mg/L	0.00020	0.000016	1	12/01/23 15:36	12/05/23 12:56	7440-43-9	
Chromium	0.00042J	mg/L	0.0020	0.00018	1	12/01/23 15:36	12/05/23 12:56	7440-47-3	
Cobalt	0.00034J	mg/L	0.0010	0.000071	1	12/01/23 15:36	12/05/23 12:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	12/01/23 15:36	12/05/23 12:56	7439-92-1	
Molybdenum	0.061	mg/L	0.0010	0.000074	1	12/01/23 15:36	12/05/23 12:56	7439-98-7	
Selenium	0.027	mg/L	0.0010	0.00019	1	12/01/23 15:36	12/05/23 12:56	7782-49-2	
Thallium	0.00030J	mg/L	0.0010	0.000060	1	12/01/23 15:36	12/05/23 12:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/08/23 10:02	12/10/23 17:34	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	852	mg/L	10.0	10.0	1		12/04/23 11:36		
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		12/13/23 14:19		H3

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ANALYTICAL RESULTS

Project: Baily Assessment

Pace Project No.: 50359718

Sample: **FD-03-112923** Lab ID: **50360626004** Collected: 11/29/23 12:00 Received: 11/30/23 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	8.6	mg/L	0.25	0.067	1		12/12/23 08:32	16887-00-6	
Fluoride	0.26	mg/L	0.050	0.017	1		12/12/23 08:32	16984-48-8	
Sulfate	278	mg/L	2.5	1.9	10		12/12/23 08:50	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.1	mg/L	0.10	0.0062	1	12/01/23 08:04	12/08/23 23:02	7440-42-8	
Calcium	174	mg/L	1.0	0.068	1	12/01/23 08:04	12/08/23 23:02	7440-70-2	
Lithium	0.031	mg/L	0.020	0.0068	1	12/01/23 08:04	12/08/23 23:02	7439-93-2	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.00072J	mg/L	0.0010	0.000080	1	12/01/23 15:36	12/05/23 12:59	7440-36-0	
Arsenic	0.0021	mg/L	0.0010	0.00012	1	12/01/23 15:36	12/05/23 12:59	7440-38-2	
Barium	0.068	mg/L	0.0010	0.000065	1	12/01/23 15:36	12/05/23 12:59	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	12/01/23 15:36	12/05/23 12:59	7440-41-7	
Cadmium	0.000082J	mg/L	0.00020	0.000016	1	12/01/23 15:36	12/05/23 12:59	7440-43-9	
Chromium	0.00044J	mg/L	0.0020	0.00018	1	12/01/23 15:36	12/05/23 12:59	7440-47-3	
Cobalt	0.00036J	mg/L	0.0010	0.000071	1	12/01/23 15:36	12/05/23 12:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	12/01/23 15:36	12/05/23 12:59	7439-92-1	
Molybdenum	0.061	mg/L	0.0010	0.000074	1	12/01/23 15:36	12/05/23 12:59	7439-98-7	
Selenium	0.027	mg/L	0.0010	0.00019	1	12/01/23 15:36	12/05/23 12:59	7782-49-2	
Thallium	0.00029J	mg/L	0.0010	0.000060	1	12/01/23 15:36	12/05/23 12:59	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/08/23 10:02	12/10/23 17:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	955	mg/L	10.0	10.0	1		12/04/23 11:37		
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		12/13/23 14:20		H3

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ANALYTICAL RESULTS

Project: Bailly Assessment

Pace Project No.: 50359718

Sample: GAMW-08-113023 **Lab ID: 50360695001** Collected: 11/30/23 10:05 Received: 12/01/23 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.4	mg/L	0.25	0.067	1		12/12/23 10:03	16887-00-6	
Fluoride	1.0	mg/L	0.050	0.017	1		12/12/23 10:03	16984-48-8	
Sulfate	24.6	mg/L	0.25	0.19	1		12/12/23 10:03	14808-79-8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.43	mg/L	0.10	0.011	1	12/05/23 08:15	12/09/23 15:40	7440-42-8	
Calcium	79.5	mg/L	1.0	0.057	1	12/05/23 08:15	12/09/23 15:40	7440-70-2	
Lithium	0.019J	mg/L	0.020	0.0051	1	12/05/23 08:15	12/09/23 15:40	7439-93-2	1d
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.0015	mg/L	0.0010	0.000080	1	12/02/23 10:38	12/05/23 10:46	7440-36-0	
Arsenic	0.0030	mg/L	0.0010	0.00012	1	12/02/23 10:38	12/05/23 10:46	7440-38-2	
Barium	0.024	mg/L	0.0010	0.000065	1	12/02/23 10:38	12/05/23 10:46	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	12/02/23 10:38	12/05/23 10:46	7440-41-7	
Cadmium	0.0012	mg/L	0.00020	0.000016	1	12/02/23 10:38	12/05/23 10:46	7440-43-9	
Chromium	0.0027	mg/L	0.0020	0.00018	1	12/02/23 10:38	12/05/23 10:46	7440-47-3	
Cobalt	0.00010J	mg/L	0.0010	0.000071	1	12/02/23 10:38	12/05/23 10:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	12/02/23 10:38	12/05/23 10:46	7439-92-1	
Molybdenum	0.046	mg/L	0.0010	0.000074	1	12/02/23 10:38	12/05/23 10:46	7439-98-7	
Selenium	0.021	mg/L	0.0010	0.00019	1	12/02/23 10:38	12/05/23 10:46	7782-49-2	
Thallium	0.0026	mg/L	0.0010	0.000060	1	12/02/23 10:38	12/05/23 10:46	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	mg/L	0.00020	0.000091	1	12/13/23 11:42	12/13/23 21:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	302	mg/L	10.0	10.0	1		12/04/23 11:38		
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		12/15/23 15:54		H3

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 764396 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50359718001, 50359718002, 50359718003

METHOD BLANK: 3503819 Matrix: Water

Associated Lab Samples: 50359718001, 50359718002, 50359718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	12/01/23 22:21	
Fluoride	mg/L	ND	0.050	0.017	12/01/23 22:21	
Sulfate	mg/L	ND	0.25	0.19	12/01/23 22:21	

LABORATORY CONTROL SAMPLE: 3503820

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	0.98	98	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3503821 3503822

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50359710001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.6	2.5	2.5	7.8	7.7	87	87	80-120	0	15		
Fluoride	mg/L	0.12	1	1	1.1	1.2	102	103	80-120	1	15		
Sulfate	mg/L	44.2	50	50	92.4	91.5	96	95	80-120	1	15		

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	765136	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006

METHOD BLANK: 3506579 Matrix: Water
 Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	12/03/23 13:38	
Fluoride	mg/L	ND	0.050	0.017	12/03/23 13:38	
Sulfate	mg/L	ND	0.25	0.19	12/03/23 13:38	

LABORATORY CONTROL SAMPLE: 3506580

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	0.98	98	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3506581 3506582

Parameter	Units	50359849001		50359849002		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	25.5	25	25	25	49.7	49.7	97	97	80-120	0	15	
Fluoride	mg/L	0.28	1	1	1	1.3	1.3	99	99	80-120	0	15	
Sulfate	mg/L	40.2	5	5	5	45.4	45.4	103	103	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3507426 3507427

Parameter	Units	50359760001		50359760002		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	90.3	25	25	25	116	113	103	92	80-120	2	15	
Fluoride	mg/L	0.11	1	1	1	1.1	1.1	101	102	80-120	1	15	
Sulfate	mg/L	174	50	50	50	222	219	97	91	80-120	2	15	

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QUALITY CONTROL DATA

Project: Bailly Assessment
 Pace Project No.: 50359718

QC Batch: 765155 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006, 50359957007, 50359957008

METHOD BLANK: 3506640 Matrix: Water
 Associated Lab Samples: 50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006, 50359957007, 50359957008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	12/04/23 13:21	
Fluoride	mg/L	ND	0.050	0.017	12/04/23 13:21	
Sulfate	mg/L	ND	0.25	0.19	12/04/23 13:21	

LABORATORY CONTROL SAMPLE: 3506641

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	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3506642 3506643

Parameter	Units	50359951001		3506643		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	26.8	25	25	49.3	49.3	90	90	80-120	0	15
Fluoride	mg/L	0.11	1	1	1.1	1.1	101	101	80-120	0	15
Sulfate	mg/L	365	50	50	404	403	78	76	80-120	0	15 MO

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	766566	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360160001, 50360160002, 50360160003, 50360160004

METHOD BLANK: 3512176 Matrix: Water
 Associated Lab Samples: 50360160001, 50360160002, 50360160003, 50360160004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	12/07/23 22:47	
Fluoride	mg/L	ND	0.050	0.017	12/07/23 22:47	
Sulfate	mg/L	ND	0.25	0.19	12/07/23 22:47	

LABORATORY CONTROL SAMPLE: 3512177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	100	80-120	
Fluoride	mg/L	1	0.95	95	80-120	
Sulfate	mg/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512179 3512180

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50359992003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	12.2	12.2	2.5	2.5	14.3	14.4	82	86	80-120	1	15	
Fluoride	mg/L	0.30	0.30	1	1	1.2	1.2	94	93	80-120	0	15	
Sulfate	mg/L	12.1	12.1	5	5	16.5	16.5	90	89	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512181 3512182

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50359992009	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	33.7	33.7	25	25	55.3	55.4	86	87	80-120	0	15	
Fluoride	mg/L	0.27	0.27	1	1	1.2	1.2	95	96	80-120	1	15	
Sulfate	mg/L	43.2	43.2	5	5	46.9	47.6	73	87	80-120	2	15 M0	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	766571	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360283001, 50360283002, 50360283003

METHOD BLANK: 3512187 Matrix: Water
 Associated Lab Samples: 50360283001, 50360283002, 50360283003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	12/06/23 09:54	
Fluoride	mg/L	ND	0.050	0.017	12/06/23 09:54	
Sulfate	mg/L	ND	0.25	0.19	12/06/23 09:54	

LABORATORY CONTROL SAMPLE: 3512188

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	0.95	95	80-120	
Sulfate	mg/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512190 3512191

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50360317002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	12.0	2.5	2.5	14.2	14.1	86	82	80-120	1	15		
Fluoride	mg/L	1.3	1	1	2.3	2.3	95	92	80-120	1	15		
Sulfate	mg/L	304	50	50	340	357	72	107	80-120	5	15 M0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512192 3512193

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50360317012 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	19.4	2.5	2.5	22.4	22.2	121	112	80-120	1	15 M0		
Fluoride	mg/L	0.17	1	1	1.2	1.1	99	93	80-120	5	15		
Sulfate	mg/L	138	50	50	183	181	89	85	80-120	1	15		

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QUALITY CONTROL DATA

Project: Bailly Assessment
 Pace Project No.: 50359718

QC Batch: 766740 Analysis Method: EPA 9056
 QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50360446001, 50360446002, 50360446003

METHOD BLANK: 3513114 Matrix: Water
 Associated Lab Samples: 50360446001, 50360446002, 50360446003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	12/07/23 17:33	
Fluoride	mg/L	ND	0.050	0.017	12/07/23 17:33	
Sulfate	mg/L	ND	0.25	0.19	12/07/23 17:33	

LABORATORY CONTROL SAMPLE: 3513115

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	0.98	98	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3513116 3513117

Parameter	Units	50360386001		3513116		3513117		% 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	35.6	25	25	58.5	58.5	92	92	80-120	0	15		
Fluoride	mg/L	0.32	1	1	1.3	1.3	100	102	80-120	1	15		
Sulfate	mg/L	720	500	500	1120	1120	80	80	80-120	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3513118 3513119

Parameter	Units	50360416003		3513118		3513119		% 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	122	25	25	147	147	103	100	80-120	1	15		
Fluoride	mg/L	0.16	1	1	1.2	1.2	102	101	80-120	1	15		
Sulfate	mg/L	185	50	50	236	236	102	102	80-120	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3513120 3513121

Parameter	Units	50360446003		3513120		3513121		% 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	7.7	2.5	2.5	10.1	10.1	96	96	80-120	0	15		
Fluoride	mg/L	0.65	1	1	1.7	1.7	102	102	80-120	0	15		
Sulfate	mg/L	61.6	50	50	108	108	93	93	80-120	0	15		

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	767021	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360534001, 50360534002, 50360534003

METHOD BLANK: 3514685 Matrix: Water
 Associated Lab Samples: 50360534001, 50360534002, 50360534003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	12/11/23 12:05	
Fluoride	mg/L	ND	0.050	0.017	12/11/23 12:05	
Sulfate	mg/L	ND	0.25	0.19	12/11/23 12:05	

LABORATORY CONTROL SAMPLE: 3514686

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	0.99	99	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3514688 3514689

Parameter	Units	50360520004		3514688		3514689		% 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	2.4	2.5	2.5	4.9	4.9	100	104	80-120	2	15		
Fluoride	mg/L	2.7	1	1	3.6	3.6	90	93	80-120	1	15		
Sulfate	mg/L	2010	500	500	2440	2320	88	63	80-120	5	15	M0	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	767023	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360626001, 50360626002, 50360626003, 50360626004, 50360695001

METHOD BLANK: 3514700 Matrix: Water
 Associated Lab Samples: 50360626001, 50360626002, 50360626003, 50360626004, 50360695001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	12/11/23 16:54	
Fluoride	mg/L	ND	0.050	0.017	12/11/23 16:54	
Sulfate	mg/L	ND	0.25	0.19	12/11/23 16:54	

LABORATORY CONTROL SAMPLE: 3514701

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	0.97	97	80-120	
Sulfate	mg/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3514702 3514703

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50360581002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	20.9	25	25	44.3	44.3	94	94	80-120	0	15		
Fluoride	mg/L	ND	1	1	1.1	1.1	98	98	80-120	0	15		
Sulfate	mg/L	64.2	50	50	109	109	90	90	80-120	0	15		

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	764925	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50359718001, 50359718002, 50359718003		

METHOD BLANK: 3505762 Matrix: Water

Associated Lab Samples: 50359718001, 50359718002, 50359718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	11/28/23 18:05	

LABORATORY CONTROL SAMPLE: 3505763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0050	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3505764 3505765

Parameter	Units	3505764		3505765		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/L	0.40J ug/L	0.015	0.015	0.013	0.013	83	83	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 765067 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006

METHOD BLANK: 3506158 Matrix: Water
 Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	11/29/23 08:56	

LABORATORY CONTROL SAMPLE: 3506159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0051	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3506160 3506161

Parameter	Units	50359849001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.005	0.005	0.0050	0.0051	100	102	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3506162 3506163

Parameter	Units	50360081013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.005	0.005	0.0050	0.0051	100	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 765551 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006

METHOD BLANK: 3508161 Matrix: Water
 Associated Lab Samples: 50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	12/03/23 19:35	

LABORATORY CONTROL SAMPLE: 3508162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0053	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3508163 3508164

Parameter	Units	50359976003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.005	0.005	0.0048	0.0048	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	765578	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50359957007, 50359957008, 50360160001, 50360160002, 50360160003, 50360160004, 50360283001, 50360283002, 50360283003, 50360446001, 50360446002, 50360446003		

METHOD BLANK:	3508270	Matrix:	Water
Associated Lab Samples:	50359957007, 50359957008, 50360160001, 50360160002, 50360160003, 50360160004, 50360283001, 50360283002, 50360283003, 50360446001, 50360446002, 50360446003		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	12/04/23 17:18	

LABORATORY CONTROL SAMPLE: 3508271						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0050	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3508272												3508273	
Parameter	Units	50360446003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Mercury	mg/L	ND	0.005	0.005	0.0050	0.0049	99	98	75-125	1	20		

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	766462	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50360534001, 50360534002, 50360534003		

METHOD BLANK: 3511751 Matrix: Water

Associated Lab Samples: 50360534001, 50360534002, 50360534003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	12/07/23 17:12	

LABORATORY CONTROL SAMPLE: 3511752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0043	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3511753 3511754

Parameter	Units	50360538003		3511754		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.005	0.005	0.0051	0.0050	101	99	75-125	2	20

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	766542	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360626001, 50360626002, 50360626003, 50360626004

METHOD BLANK: 3512059 Matrix: Water
 Associated Lab Samples: 50360626001, 50360626002, 50360626003, 50360626004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	12/10/23 16:28	

LABORATORY CONTROL SAMPLE: 3512060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0052	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512061 3512062

Parameter	Units	3512061		3512062		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.005	0.0046	0.0043	91	86	75-125	6	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	767219	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360695001

METHOD BLANK: 3515412 Matrix: Water

Associated Lab Samples: 50360695001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	12/13/23 21:52	

LABORATORY CONTROL SAMPLE: 3515413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0052	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3515415 3515416

Parameter	Units	3515415		3515416		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50360725003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.005	0.005	0.0051	0.0048	101	96	75-125	5	20

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	764134	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50359718001, 50359718002, 50359718003

METHOD BLANK: 3502678 Matrix: Water

Associated Lab Samples: 50359718001, 50359718002, 50359718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	11/22/23 10:05	
Calcium	mg/L	ND	1.0	0.057	11/22/23 10:05	
Lithium	mg/L	ND	0.020	0.0051	11/22/23 10:05	

LABORATORY CONTROL SAMPLE: 3502679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.96	96	80-120	
Calcium	mg/L	10	9.9	99	80-120	
Lithium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3502680 3502681

Parameter	Units	50359827005		3502681		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
Boron	mg/L	0.38	1	1	1.4	1.4	101	101	75-125	0	20		
Calcium	mg/L	100	10	10	110	111	100	106	75-125	1	20		
Lithium	mg/L	ND	1	1	1.0	1.0	102	101	75-125	1	20		

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	764446	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006			

METHOD BLANK: 3503962 Matrix: Water
 Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.0062	11/30/23 21:52	
Calcium	mg/L	ND	1.0	0.068	11/30/23 21:52	
Lithium	mg/L	ND	0.020	0.0068	11/30/23 21:52	

LABORATORY CONTROL SAMPLE: 3503963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.94	94	80-120	
Calcium	mg/L	10	9.9	99	80-120	
Lithium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3503964 3503965

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50359849001 Result	Spike Conc.	Spike Conc.	Conc.								
Boron	mg/L	0.072J	1	1	1.1	1.0	100	98	75-125	2	20		
Calcium	mg/L	30.2	10	10	40.6	39.5	104	94	75-125	3	20		
Lithium	mg/L	ND	1	1	1.0	1.0	104	100	75-125	4	20		

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50359718

QC Batch:	764447	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006, 50359957007, 50359957008		

METHOD BLANK:	3503966	Matrix:	Water
Associated Lab Samples:	50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006, 50359957007, 50359957008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.0062	12/04/23 11:08	
Calcium	mg/L	ND	1.0	0.068	12/04/23 11:08	
Lithium	mg/L	ND	0.020	0.0068	12/04/23 11:08	

LABORATORY CONTROL SAMPLE: 3503967						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.98	98	80-120	
Calcium	mg/L	10	10.4	104	80-120	
Lithium	mg/L	1	1.0	100	80-120 3d	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3503968												3503969	
Parameter	Units	50359957003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Boron	mg/L	0.60	1	1	1.6	1.6	99	101	75-125	1	20		
Calcium	mg/L	188	10	10	194	191	59	35	75-125	1	20 P6		
Lithium	mg/L	0.011J	1	1	1.0	1.0	100	101	75-125	1	20 3d		

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50359718

QC Batch:	765186	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50360160001, 50360160002, 50360160003, 50360160004, 50360283001, 50360283002, 50360283003, 50360446001, 50360446002, 50360446003		

METHOD BLANK:	3506861	Matrix:	Water
Associated Lab Samples:	50360160001, 50360160002, 50360160003, 50360160004, 50360283001, 50360283002, 50360283003, 50360446001, 50360446002, 50360446003		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	12/02/23 12:37	
Calcium	mg/L	ND	1.0	0.057	12/02/23 12:37	
Lithium	mg/L	ND	0.020	0.0051	12/02/23 12:37	

LABORATORY CONTROL SAMPLE: 3506862						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	102	80-120	
Calcium	mg/L	10	10.5	105	80-120	
Lithium	mg/L	1	1.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3506863											3506864	
Parameter	Units	50360446003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.26	1	1	1.2	1.3	98	100	75-125	1	20	
Calcium	mg/L	76.5	10	10	84.3	85.6	78	90	75-125	1	20	
Lithium	mg/L	0.0069J	1	1	0.99	1.0	99	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	765708	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360534001, 50360534002, 50360534003, 50360626001, 50360626002, 50360626003, 50360626004

METHOD BLANK: 3508928 Matrix: Water
 Associated Lab Samples: 50360534001, 50360534002, 50360534003, 50360626001, 50360626002, 50360626003, 50360626004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.0062	12/08/23 22:41	
Calcium	mg/L	ND	1.0	0.068	12/08/23 22:41	
Lithium	mg/L	ND	0.020	0.0068	12/08/23 22:41	

LABORATORY CONTROL SAMPLE: 3508929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	80-120	
Calcium	mg/L	10	9.9	99	80-120	
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3508930 3508931

Parameter	Units	50360538003		3508930		3508931		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Boron	mg/L	ND	1	1	1.0	1.1	100	101	75-125	1	20		
Calcium	mg/L	101000	10	10	108	107	71	64	75-125	1	20	P6	
Lithium	mg/L	ND	1	1	1.0	1.0	102	103	75-125	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3508932 3508933

Parameter	Units	50360614003		3508932		3508933		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Boron	mg/L	1.1	1	1	2.1	2.1	98	101	75-125	1	20		
Calcium	mg/L	173	10	10	179	181	65	87	75-125	1	20	P6	
Lithium	mg/L	0.027	1	1	1.1	1.1	102	103	75-125	0	20		

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	766007	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360695001

METHOD BLANK: 3510228 Matrix: Water

Associated Lab Samples: 50360695001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	12/09/23 15:14	
Calcium	mg/L	ND	1.0	0.057	12/09/23 15:14	
Lithium	mg/L	ND	0.020	0.0051	12/09/23 15:14	1d

LABORATORY CONTROL SAMPLE: 3510229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.97	97	80-120	
Calcium	mg/L	10	9.9	99	80-120	
Lithium	mg/L	1	1.0	102	80-120	1d

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3510230 3510231

Parameter	Units	50360631003		3510231		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Boron	mg/L	ND	1	1	1.1	1.0	102	98	75-125	4	20		
Calcium	mg/L	102000	10	10	111	108	84	51	75-125	3	20	P6	
Lithium	mg/L	ND	1	1	1.0	1.0	103	101	75-125	3	20	1d	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	763284	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50359718001, 50359718002, 50359718003

METHOD BLANK: 3498582 Matrix: Water

Associated Lab Samples: 50359718001, 50359718002, 50359718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00049	11/22/23 13:43	
Arsenic	mg/L	ND	0.0010	0.000075	11/22/23 13:43	
Barium	mg/L	ND	0.0010	0.000077	11/19/23 20:40	
Beryllium	mg/L	ND	0.00020	0.000035	11/22/23 13:43	
Cadmium	mg/L	ND	0.00020	0.000011	11/22/23 13:43	
Chromium	mg/L	ND	0.0020	0.00014	11/22/23 13:43	
Cobalt	mg/L	ND	0.0010	0.000046	11/22/23 13:43	
Lead	mg/L	ND	0.0010	0.000029	11/19/23 20:40	
Molybdenum	mg/L	ND	0.0010	0.000046	11/22/23 13:43	
Selenium	mg/L	ND	0.0010	0.00020	11/22/23 13:43	
Thallium	mg/L	ND	0.0010	0.000040	11/19/23 20:40	

LABORATORY CONTROL SAMPLE: 3498583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.041	102	80-120	
Arsenic	mg/L	0.04	0.039	97	80-120	
Barium	mg/L	0.04	0.040	99	80-120	
Beryllium	mg/L	0.04	0.041	101	80-120	
Cadmium	mg/L	0.04	0.039	98	80-120	
Chromium	mg/L	0.04	0.041	103	80-120	
Cobalt	mg/L	0.04	0.041	103	80-120	
Lead	mg/L	0.04	0.041	101	80-120	
Molybdenum	mg/L	0.04	0.041	101	80-120	
Selenium	mg/L	0.04	0.040	101	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3498584 3498585

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50359626001 Result	Spike Conc.	Spike Conc.	Result							
Antimony	mg/L	ND	0.04	0.04	0.042	0.041	104	103	75-125	1	20	
Arsenic	mg/L	0.00065J	0.04	0.04	0.039	0.039	97	96	75-125	1	20	
Barium	mg/L	0.0042	0.04	0.04	0.044	0.043	99	97	75-125	2	20	
Beryllium	mg/L	ND	0.04	0.04	0.041	0.040	103	100	75-125	2	20	
Cadmium	mg/L	0.000043J	0.04	0.04	0.039	0.039	98	97	75-125	0	20	
Chromium	mg/L	0.00067J	0.04	0.04	0.041	0.041	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50359718

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3498584 3498585											
Parameter	Units	50359626001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Cobalt	mg/L	0.00069J	0.04	0.04	0.040	0.040	99	97	75-125	1	20
Lead	mg/L	0.00014J	0.04	0.04	0.041	0.040	102	101	75-125	1	20
Molybdenum	mg/L	0.0017	0.04	0.04	0.043	0.042	104	102	75-125	2	20
Selenium	mg/L	ND	0.04	0.04	0.039	0.040	99	99	75-125	0	20
Thallium	mg/L	ND	0.04	0.04	0.042	0.041	104	103	75-125	2	20

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50359718

QC Batch:	764731	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006, 50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006, 50359957007, 50359957008

METHOD BLANK: 3505203 Matrix: Water
 Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006, 50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006, 50359957007, 50359957008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	11/29/23 13:09	
Arsenic	mg/L	ND	0.0010	0.00012	11/29/23 13:09	
Barium	mg/L	ND	0.0010	0.000065	11/29/23 13:09	
Beryllium	mg/L	ND	0.00020	0.000026	11/29/23 13:09	
Cadmium	mg/L	ND	0.00020	0.000016	11/29/23 13:09	
Chromium	mg/L	ND	0.0020	0.00018	11/29/23 13:09	
Cobalt	mg/L	ND	0.0010	0.000071	11/29/23 13:09	
Lead	mg/L	ND	0.0010	0.000068	11/29/23 13:09	
Molybdenum	mg/L	ND	0.0010	0.000074	11/29/23 13:09	
Selenium	mg/L	ND	0.0010	0.00019	11/29/23 13:09	
Thallium	mg/L	ND	0.0010	0.000060	11/29/23 13:09	

LABORATORY CONTROL SAMPLE: 3505204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.041	102	80-120	
Arsenic	mg/L	0.04	0.038	94	80-120	
Barium	mg/L	0.04	0.039	96	80-120	
Beryllium	mg/L	0.04	0.040	100	80-120	
Cadmium	mg/L	0.04	0.040	100	80-120	
Chromium	mg/L	0.04	0.040	100	80-120	
Cobalt	mg/L	0.04	0.040	101	80-120	
Lead	mg/L	0.04	0.041	102	80-120	
Molybdenum	mg/L	0.04	0.040	101	80-120	
Selenium	mg/L	0.04	0.039	98	80-120	
Thallium	mg/L	0.04	0.040	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3505205 3505206

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50359849001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	0.00018J	0.04	0.04	0.041	0.042	103	105	75-125	2	20	
Arsenic	mg/L	0.0017	0.04	0.04	0.040	0.040	95	95	75-125	1	20	
Barium	mg/L	0.0092	0.04	0.04	0.047	0.048	95	97	75-125	2	20	
Beryllium	mg/L	ND	0.04	0.04	0.040	0.041	100	101	75-125	1	20	
Cadmium	mg/L	0.000025J	0.04	0.04	0.040	0.040	100	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50359718

Parameter	Units	3505205		3505206		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50359849001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chromium	mg/L	0.0017J	0.04	0.04	0.041	0.041	99	99	75-125	0	20		
Cobalt	mg/L	0.00014J	0.04	0.04	0.039	0.040	97	99	75-125	2	20		
Lead	mg/L	0.00039J	0.04	0.04	0.041	0.042	102	103	75-125	1	20		
Molybdenum	mg/L	0.032	0.04	0.04	0.072	0.073	99	102	75-125	2	20		
Selenium	mg/L	0.0028	0.04	0.04	0.042	0.042	98	99	75-125	1	20		
Thallium	mg/L	ND	0.04	0.04	0.041	0.042	101	104	75-125	2	20		

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QUALITY CONTROL DATA

Project: Baily Assessment
Pace Project No.: 50359718

QC Batch: 765501 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50360160001, 50360160002, 50360160003, 50360160004, 50360283001, 50360283002, 50360283003, 50360446001, 50360446002, 50360446003, 50360534001, 50360534002, 50360534003

METHOD BLANK: 3508021 Matrix: Water
Associated Lab Samples: 50360160001, 50360160002, 50360160003, 50360160004, 50360283001, 50360283002, 50360283003, 50360446001, 50360446002, 50360446003, 50360534001, 50360534002, 50360534003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00049	12/05/23 08:25	
Arsenic	mg/L	ND	0.0010	0.000075	12/05/23 08:25	
Barium	mg/L	ND	0.0010	0.000077	12/05/23 08:25	
Beryllium	mg/L	ND	0.00020	0.000035	12/05/23 08:25	
Cadmium	mg/L	ND	0.00020	0.000011	12/05/23 08:25	
Chromium	mg/L	ND	0.0020	0.00014	12/05/23 08:25	
Cobalt	mg/L	ND	0.0010	0.000046	12/05/23 08:25	
Lead	mg/L	ND	0.0010	0.000029	12/05/23 08:25	
Molybdenum	mg/L	ND	0.0010	0.000046	12/05/23 08:25	
Selenium	mg/L	ND	0.0010	0.00020	12/05/23 08:25	
Thallium	mg/L	ND	0.0010	0.000040	12/05/23 08:25	

LABORATORY CONTROL SAMPLE: 3508022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.040	100	80-120	
Arsenic	mg/L	0.04	0.039	97	80-120	
Barium	mg/L	0.04	0.039	97	80-120	
Beryllium	mg/L	0.04	0.037	93	80-120	
Cadmium	mg/L	0.04	0.039	96	80-120	
Chromium	mg/L	0.04	0.041	102	80-120	
Cobalt	mg/L	0.04	0.041	103	80-120	
Lead	mg/L	0.04	0.040	101	80-120	
Molybdenum	mg/L	0.04	0.039	99	80-120	
Selenium	mg/L	0.04	0.039	97	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3508023 3508024

Parameter	Units	50360446003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	mg/L	ND	0.04	0.04	0.040	0.040	100	100	75-125	0	20	
Arsenic	mg/L	0.0014	0.04	0.04	0.039	0.040	94	95	75-125	1	20	
Barium	mg/L	0.023	0.04	0.04	0.061	0.061	94	95	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.038	0.038	94	95	75-125	1	20	
Cadmium	mg/L	0.00019J	0.04	0.04	0.038	0.038	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3508023 3508024											
Parameter	Units	50360446003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Chromium	mg/L	0.00026J	0.04	0.04	0.040	0.040	99	99	75-125	0	20
Cobalt	mg/L	0.00024J	0.04	0.04	0.039	0.039	96	96	75-125	0	20
Lead	mg/L	ND	0.04	0.04	0.040	0.040	99	101	75-125	1	20
Molybdenum	mg/L	0.016	0.04	0.04	0.055	0.055	98	99	75-125	1	20
Selenium	mg/L	0.10	0.04	0.04	0.14	0.14	93	94	75-125	0	20
Thallium	mg/L	ND	0.04	0.04	0.041	0.041	103	103	75-125	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3508025 3508026											
Parameter	Units	50360538003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Antimony	mg/L	ND	0.04	0.04	0.039	0.040	98	100	75-125	2	20
Arsenic	mg/L	1.6 ug/L	0.04	0.04	0.039	0.039	93	94	75-125	1	20
Barium	mg/L	46.9 ug/L	0.04	0.04	0.085	0.086	95	97	75-125	1	20
Beryllium	mg/L	ND	0.04	0.04	0.038	0.038	95	96	75-125	1	20
Cadmium	mg/L	ND	0.04	0.04	0.037	0.038	93	94	75-125	1	20
Chromium	mg/L	356 ug/L	0.04	0.04	0.39	0.39	79	81	75-125	0	20 E
Cobalt	mg/L	1.3 ug/L	0.04	0.04	0.039	0.040	94	96	75-125	2	20
Lead	mg/L	ND	0.04	0.04	0.041	0.041	99	100	75-125	1	20
Molybdenum	mg/L	ND	0.04	0.04	0.040	0.040	97	97	75-125	0	20
Selenium	mg/L	ND	0.04	0.04	0.038	0.039	94	95	75-125	1	20
Thallium	mg/L	ND	0.04	0.04	0.041	0.041	102	103	75-125	1	20

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	765735	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360626001, 50360626002, 50360626003, 50360626004

METHOD BLANK: 3509040 Matrix: Water

Associated Lab Samples: 50360626001, 50360626002, 50360626003, 50360626004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	12/05/23 12:35	
Arsenic	mg/L	ND	0.0010	0.00012	12/05/23 12:35	
Barium	mg/L	ND	0.0010	0.000065	12/05/23 12:35	
Beryllium	mg/L	ND	0.00020	0.000026	12/05/23 12:35	
Cadmium	mg/L	ND	0.00020	0.000016	12/05/23 12:35	
Chromium	mg/L	ND	0.0020	0.00018	12/05/23 12:35	
Cobalt	mg/L	ND	0.0010	0.000071	12/05/23 12:35	
Lead	mg/L	ND	0.0010	0.000068	12/05/23 12:35	
Molybdenum	mg/L	ND	0.0010	0.000074	12/05/23 12:35	
Selenium	mg/L	ND	0.0010	0.00019	12/05/23 12:35	
Thallium	mg/L	ND	0.0010	0.000060	12/05/23 12:35	

LABORATORY CONTROL SAMPLE: 3509041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.040	100	80-120	
Arsenic	mg/L	0.04	0.037	92	80-120	
Barium	mg/L	0.04	0.037	93	80-120	
Beryllium	mg/L	0.04	0.036	91	80-120	
Cadmium	mg/L	0.04	0.039	97	80-120	
Chromium	mg/L	0.04	0.040	100	80-120	
Cobalt	mg/L	0.04	0.040	99	80-120	
Lead	mg/L	0.04	0.040	100	80-120	
Molybdenum	mg/L	0.04	0.039	98	80-120	
Selenium	mg/L	0.04	0.039	97	80-120	
Thallium	mg/L	0.04	0.040	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509042 3509043

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		50360631003	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Antimony	mg/L	ND	0.04	0.04	0.042	0.042	104	104	75-125	0	20		
Arsenic	mg/L	ND	0.04	0.04	0.036	0.039	90	96	75-125	6	20		
Barium	mg/L	32.7 ug/L	0.04	0.04	0.073	0.073	100	102	75-125	1	20		
Beryllium	mg/L	ND	0.04	0.04	0.037	0.038	93	95	75-125	2	20		
Cadmium	mg/L	ND	0.04	0.04	0.039	0.039	97	98	75-125	1	20		
Chromium	mg/L	121 ug/L	0.04	0.04	0.15	0.17	72	120	75-125	12	20 M0		

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50359718

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509042 3509043											
Parameter	Units	50360631003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Cobalt	mg/L	ND	0.04	0.04	0.038	0.038	94	94	75-125	0	20
Lead	mg/L	ND	0.04	0.04	0.041	0.042	103	103	75-125	1	20
Molybdenum	mg/L	1.7 ug/L	0.04	0.04	0.042	0.043	100	102	75-125	2	20
Selenium	mg/L	ND	0.04	0.04	0.038	0.040	93	99	75-125	6	20
Thallium	mg/L	ND	0.04	0.04	0.042	0.042	104	105	75-125	0	20

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	765867	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360695001

METHOD BLANK: 3509538 Matrix: Water

Associated Lab Samples: 50360695001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	12/05/23 10:40	
Arsenic	mg/L	ND	0.0010	0.00012	12/05/23 10:40	
Barium	mg/L	ND	0.0010	0.000065	12/05/23 10:40	
Beryllium	mg/L	ND	0.00020	0.000026	12/05/23 10:40	
Cadmium	mg/L	ND	0.00020	0.000016	12/05/23 10:40	
Chromium	mg/L	ND	0.0020	0.00018	12/05/23 10:40	
Cobalt	mg/L	ND	0.0010	0.000071	12/05/23 10:40	
Lead	mg/L	ND	0.0010	0.000068	12/05/23 10:40	
Molybdenum	mg/L	ND	0.0010	0.000074	12/05/23 10:40	
Selenium	mg/L	ND	0.0010	0.00019	12/05/23 10:40	
Thallium	mg/L	ND	0.0010	0.000060	12/05/23 10:40	

LABORATORY CONTROL SAMPLE: 3509539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.042	104	80-120	
Arsenic	mg/L	0.08	0.076	96	80-120	
Barium	mg/L	0.08	0.081	102	80-120	
Beryllium	mg/L	0.08	0.080	100	80-120	
Cadmium	mg/L	0.08	0.080	100	80-120	
Chromium	mg/L	0.08	0.083	104	80-120	
Cobalt	mg/L	0.08	0.081	101	80-120	
Lead	mg/L	0.08	0.082	102	80-120	
Molybdenum	mg/L	0.04	0.041	101	80-120	
Selenium	mg/L	0.08	0.079	99	80-120	
Thallium	mg/L	0.08	0.082	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509540 3509541

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		50360708002	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Antimony	mg/L	ND	0.04	0.04	0.044	0.042	109	106	75-125	3	20		
Arsenic	mg/L	19.6 ug/L	0.04	0.04	0.059	0.059	98	98	75-125	0	20		
Barium	mg/L	57.9 ug/L	0.04	0.04	0.098	0.097	100	97	75-125	1	20		
Beryllium	mg/L	ND	0.04	0.04	0.041	0.040	102	100	75-125	3	20		
Cadmium	mg/L	ND	0.04	0.04	0.041	0.040	102	99	75-125	3	20		
Chromium	mg/L	ND	0.04	0.04	0.041	0.041	102	102	75-125	0	20		

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50359718

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509540 3509541												
Parameter	Units	50360708002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Cobalt	mg/L	ND	0.04	0.04	0.039	0.039	97	96	75-125	1	20	
Lead	mg/L	ND	0.04	0.04	0.043	0.042	108	106	75-125	3	20	
Molybdenum	mg/L	ND	0.04	0.04	0.042	0.041	106	101	75-125	4	20	
Selenium	mg/L	ND	0.04	0.04	0.032	0.032	79	79	75-125	0	20	
Thallium	mg/L	ND	0.04	0.04	0.044	0.042	109	106	75-125	3	20	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 763926

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50359718001, 50359718002, 50359718003

METHOD BLANK: 3501949

Matrix: Water

Associated Lab Samples: 50359718001, 50359718002, 50359718003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	11/20/23 12:40	

LABORATORY CONTROL SAMPLE: 3501950

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

SAMPLE DUPLICATE: 3501951

Parameter	Units	50359710001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	410	403	2	10	

SAMPLE DUPLICATE: 3501952

Parameter	Units	50359713005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2610	2590	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 764110

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006

METHOD BLANK: 3502520

Matrix: Water

Associated Lab Samples: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	11/21/23 08:24	

LABORATORY CONTROL SAMPLE: 3502521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 3502522

Parameter	Units	50359849001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	143	153	7	10	

SAMPLE DUPLICATE: 3502523

Parameter	Units	50359868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	215	220	2	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	764408	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006, 50359957007, 50359957008

METHOD BLANK: 3503843 Matrix: Water

Associated Lab Samples: 50359957001, 50359957002, 50359957003, 50359957004, 50359957005, 50359957006, 50359957007, 50359957008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	11/22/23 08:03	

LABORATORY CONTROL SAMPLE: 3503844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	279	93	80-120	

SAMPLE DUPLICATE: 3503845

Parameter	Units	50359957002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	339	333	2	10	

SAMPLE DUPLICATE: 3503846

Parameter	Units	50359976003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	261	274	5	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	764796	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360160001, 50360160002, 50360160003, 50360160004

METHOD BLANK: 3505391 Matrix: Water
 Associated Lab Samples: 50360160001, 50360160002, 50360160003, 50360160004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	11/27/23 12:02	

LABORATORY CONTROL SAMPLE: 3505392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	270	90	80-120	

SAMPLE DUPLICATE: 3505393

Parameter	Units	50360102004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	344	353	3	10	

SAMPLE DUPLICATE: 3505394

Parameter	Units	50360317003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	624	628	1	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	764982	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360283001, 50360283002, 50360283003

METHOD BLANK: 3505893 Matrix: Water

Associated Lab Samples: 50360283001, 50360283002, 50360283003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	11/28/23 11:02	

LABORATORY CONTROL SAMPLE: 3505894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	299	100	80-120	

SAMPLE DUPLICATE: 3505895

Parameter	Units	50360297001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	391	413	5	10	

SAMPLE DUPLICATE: 3505896

Parameter	Units	50360301002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	604	626	4	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	765242	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50360446001, 50360446002, 50360446003		

METHOD BLANK: 3507014 Matrix: Water

Associated Lab Samples: 50360446001, 50360446002, 50360446003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	11/29/23 10:09	

LABORATORY CONTROL SAMPLE: 3507015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	269	90	80-120	

SAMPLE DUPLICATE: 3507016

Parameter	Units	50360416003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	680	698	3	10	

SAMPLE DUPLICATE: 3507017

Parameter	Units	50360446003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	297	322	8	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch:	765804	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360534001, 50360534002, 50360534003

METHOD BLANK: 3509232 Matrix: Water

Associated Lab Samples: 50360534001, 50360534002, 50360534003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	12/01/23 14:08	

LABORATORY CONTROL SAMPLE: 3509233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	286	95	80-120	

SAMPLE DUPLICATE: 3509234

Parameter	Units	50360520008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3020	2930	3	10	

SAMPLE DUPLICATE: 3509235

Parameter	Units	50360551008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	546	526	4	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 766046

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50360626001, 50360626002, 50360626003, 50360626004, 50360695001

METHOD BLANK: 3510328

Matrix: Water

Associated Lab Samples: 50360626001, 50360626002, 50360626003, 50360626004, 50360695001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	12/04/23 11:34	

LABORATORY CONTROL SAMPLE: 3510329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	283	94	80-120	

SAMPLE DUPLICATE: 3510330

Parameter	Units	50360602004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2320	2220	4	10	

SAMPLE DUPLICATE: 3510331

Parameter	Units	50360697006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	543	587	8	10	

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 765658

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: 50359718001, 50359718002, 50359718003

SAMPLE DUPLICATE: 3508633

Parameter	Units	50359712004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3508634

Parameter	Units	50359817010 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.7	2	2	H3

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 766081

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: 50359849001, 50359849002, 50359849003, 50359849004, 50359849005, 50359849006

SAMPLE DUPLICATE: 3510400

Parameter	Units	50359760006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.1	1	2	H3

SAMPLE DUPLICATE: 3510401

Parameter	Units	50359849001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.4	8.3	1	2	H3

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 766087

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: 50359957001

SAMPLE DUPLICATE: 3510411

Parameter	Units	50359852001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

SAMPLE DUPLICATE: 3510412

Parameter	Units	50359882002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	0	2	H3

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 766288

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: 50359957002, 50359957003, 50359957004, 50359957005, 50359957006, 50359957007, 50359957008

SAMPLE DUPLICATE: 3511072

Parameter	Units	50359957002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

SAMPLE DUPLICATE: 3511073

Parameter	Units	50360297001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.0	1	2	H3

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 766728

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: 50360160001, 50360160002, 50360160003, 50360160004

SAMPLE DUPLICATE: 3513033

Parameter	Units	50356777002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	10.3	10.4	1	2	H3

SAMPLE DUPLICATE: 3513034

Parameter	Units	50360667004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	0	2	H3

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 766729

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: 50360283001, 50360283002, 50360283003

SAMPLE DUPLICATE: 3513036

Parameter	Units	50360667005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	2	H3

SAMPLE DUPLICATE: 3513037

Parameter	Units	50360283003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.3	1	2	H3

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50359718

QC Batch: 767078

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: 50360446001, 50360446002, 50360446003

SAMPLE DUPLICATE: 3515050

Parameter	Units	50360416003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.7	0	2	H3

SAMPLE DUPLICATE: 3515051

Parameter	Units	50360446003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.9	1	2	H3

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 767627

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: 50360534001, 50360534002, 50360534003

SAMPLE DUPLICATE: 3517077

Parameter	Units	50360496001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	1	2	H3

SAMPLE DUPLICATE: 3517078

Parameter	Units	50360768008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.5	8.5	0	2	H3

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QUALITY CONTROL DATA

Project: Bailly Assessment

Pace Project No.: 50359718

QC Batch: 767630

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: 50360626001, 50360626002, 50360626003, 50360626004

SAMPLE DUPLICATE: 3517112

Parameter	Units	50360581002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	1	2	H3

SAMPLE DUPLICATE: 3517113

Parameter	Units	50360705002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	1	2	H3

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QUALITY CONTROL DATA

Project: Baily Assessment

Pace Project No.: 50359718

QC Batch: 768110

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: 50360695001

SAMPLE DUPLICATE: 3519876

Parameter	Units	50360695001 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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QUALIFIERS

Project: Baily Assessment

Pace Project No.: 50359718

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- 1d The closing CRDL recovery exceeded acceptance limits (191% recovery). MTM 12/9/23
- 3d The closing CRDL recovery exceeded acceptance limits (35% recovery) ELK 12/05/23
- C0 Result confirmed by second analysis.
- 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.
- 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: Bailly Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50359718001	GAMW-01-111423	EPA 9056	764396		
50359718002	GAMW-01B-111423	EPA 9056	764396		
50359718003	GAMW-21-111423	EPA 9056	764396		
50359849001	GAMW-20-111523	EPA 9056	765136		
50359849002	GAMW-19-111523	EPA 9056	765136		
50359849003	GAMW-02-111523	EPA 9056	765136		
50359849004	GAMW-03-111523	EPA 9056	765136		
50359849005	GAMW-04-111523	EPA 9056	765136		
50359849006	FD-01-111523	EPA 9056	765136		
50359957001	GAMW-08B-111623	EPA 9056	765155		
50359957002	GAMW-14-111623	EPA 9056	765155		
50359957003	GAMW-13-111623	EPA 9056	765155		
50359957004	GAMW-06-111623	EPA 9056	765155		
50359957005	GAMW-10-111623	EPA 9056	765155		
50359957006	GAMW-07-111623	EPA 9056	765155		
50359957007	FB-01-111623	EPA 9056	765155		
50359957008	FD-02-111623	EPA 9056	765155		
50360160001	GAMW-22-112023	EPA 9056	766566		
50360160002	GAMW-22B-112023	EPA 9056	766566		
50360160003	GAMW-16-112023	EPA 9056	766566		
50360160004	FB-02-112023	EPA 9056	766566		
50360283001	GAMW-23-112123	EPA 9056	766571		
50360283002	GAMW-23B-112123	EPA 9056	766571		
50360283003	GAMW-18-112123	EPA 9056	766571		
50360446001	GAMW-11-112723	EPA 9056	766740		
50360446002	GAMW-11B-112723	EPA 9056	766740		
50360446003	GAMW-11C-112723	EPA 9056	766740		
50360534001	GAMW-17-112823	EPA 9056	767021		
50360534002	GAMW-17B-112823	EPA 9056	767021		
50360534003	FB-03-112823	EPA 9056	767021		
50360626001	MW-105-112923	EPA 9056	767023		
50360626002	MW-112-112923	EPA 9056	767023		
50360626003	GAMW-12R-112923	EPA 9056	767023		
50360626004	FD-03-112923	EPA 9056	767023		
50360695001	GAMW-08-113023	EPA 9056	767023		
50359718001	GAMW-01-111423	EPA 3010	764134	EPA 6010	764503
50359718002	GAMW-01B-111423	EPA 3010	764134	EPA 6010	764503
50359718003	GAMW-21-111423	EPA 3010	764134	EPA 6010	764503
50359849001	GAMW-20-111523	EPA 3010	764446	EPA 6010	765719
50359849002	GAMW-19-111523	EPA 3010	764446	EPA 6010	765719
50359849003	GAMW-02-111523	EPA 3010	764446	EPA 6010	765719
50359849004	GAMW-03-111523	EPA 3010	764446	EPA 6010	765719
50359849005	GAMW-04-111523	EPA 3010	764446	EPA 6010	765719
50359849006	FD-01-111523	EPA 3010	764446	EPA 6010	765719

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50359718

Table with 6 columns: Lab ID, Sample ID, QC Batch Method, QC Batch, Analytical Method, Analytical Batch. It lists various sample IDs and their corresponding QC and analytical data.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50360160004	FB-02-112023	EPA 200.2	765501	EPA 6020	765906
50360283001	GAMW-23-112123	EPA 200.2	765501	EPA 6020	765906
50360283002	GAMW-23B-112123	EPA 200.2	765501	EPA 6020	765906
50360283003	GAMW-18-112123	EPA 200.2	765501	EPA 6020	765906
50360446001	GAMW-11-112723	EPA 200.2	765501	EPA 6020	765906
50360446002	GAMW-11B-112723	EPA 200.2	765501	EPA 6020	765906
50360446003	GAMW-11C-112723	EPA 200.2	765501	EPA 6020	765906
50360534001	GAMW-17-112823	EPA 200.2	765501	EPA 6020	765906
50360534002	GAMW-17B-112823	EPA 200.2	765501	EPA 6020	765906
50360534003	FB-03-112823	EPA 200.2	765501	EPA 6020	765906
50360626001	MW-105-112923	EPA 200.2	765735	EPA 6020	765911
50360626002	MW-112-112923	EPA 200.2	765735	EPA 6020	765911
50360626003	GAMW-12R-112923	EPA 200.2	765735	EPA 6020	765911
50360626004	FD-03-112923	EPA 200.2	765735	EPA 6020	765911
50360695001	GAMW-08-113023	EPA 200.2	765867	EPA 6020	765971
50359718001	GAMW-01-111423	EPA 7470	764925	EPA 7470	765138
50359718002	GAMW-01B-111423	EPA 7470	764925	EPA 7470	765138
50359718003	GAMW-21-111423	EPA 7470	764925	EPA 7470	765138
50359849001	GAMW-20-111523	EPA 7470	765067	EPA 7470	765221
50359849002	GAMW-19-111523	EPA 7470	765067	EPA 7470	765221
50359849003	GAMW-02-111523	EPA 7470	765067	EPA 7470	765221
50359849004	GAMW-03-111523	EPA 7470	765067	EPA 7470	765221
50359849005	GAMW-04-111523	EPA 7470	765067	EPA 7470	765221
50359849006	FD-01-111523	EPA 7470	765067	EPA 7470	765221
50359957001	GAMW-08B-111623	EPA 7470	765551	EPA 7470	765985
50359957002	GAMW-14-111623	EPA 7470	765551	EPA 7470	765985
50359957003	GAMW-13-111623	EPA 7470	765551	EPA 7470	765985
50359957004	GAMW-06-111623	EPA 7470	765551	EPA 7470	765985
50359957005	GAMW-10-111623	EPA 7470	765551	EPA 7470	765985
50359957006	GAMW-07-111623	EPA 7470	765551	EPA 7470	765985
50359957007	FB-01-111623	EPA 7470	765578	EPA 7470	766164
50359957008	FD-02-111623	EPA 7470	765578	EPA 7470	766164
50360160001	GAMW-22-112023	EPA 7470	765578	EPA 7470	766164
50360160002	GAMW-22B-112023	EPA 7470	765578	EPA 7470	766164
50360160003	GAMW-16-112023	EPA 7470	765578	EPA 7470	766164
50360160004	FB-02-112023	EPA 7470	765578	EPA 7470	766164
50360283001	GAMW-23-112123	EPA 7470	765578	EPA 7470	766164
50360283002	GAMW-23B-112123	EPA 7470	765578	EPA 7470	766164
50360283003	GAMW-18-112123	EPA 7470	765578	EPA 7470	766164
50360446001	GAMW-11-112723	EPA 7470	765578	EPA 7470	766164
50360446002	GAMW-11B-112723	EPA 7470	765578	EPA 7470	766164
50360446003	GAMW-11C-112723	EPA 7470	765578	EPA 7470	766164
50360534001	GAMW-17-112823	EPA 7470	766462	EPA 7470	766750
50360534002	GAMW-17B-112823	EPA 7470	766462	EPA 7470	766750
50360534003	FB-03-112823	EPA 7470	766462	EPA 7470	766750

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50360626001	MW-105-112923	EPA 7470	766542	EPA 7470	767097
50360626002	MW-112-112923	EPA 7470	766542	EPA 7470	767097
50360626003	GAMW-12R-112923	EPA 7470	766542	EPA 7470	767097
50360626004	FD-03-112923	EPA 7470	766542	EPA 7470	767097
50360695001	GAMW-08-113023	EPA 7470	767219	EPA 7470	767706
50359718001	GAMW-01-111423	SM 2540C	763926		
50359718002	GAMW-01B-111423	SM 2540C	763926		
50359718003	GAMW-21-111423	SM 2540C	763926		
50359849001	GAMW-20-111523	SM 2540C	764110		
50359849002	GAMW-19-111523	SM 2540C	764110		
50359849003	GAMW-02-111523	SM 2540C	764110		
50359849004	GAMW-03-111523	SM 2540C	764110		
50359849005	GAMW-04-111523	SM 2540C	764110		
50359849006	FD-01-111523	SM 2540C	764110		
50359957001	GAMW-08B-111623	SM 2540C	764408		
50359957002	GAMW-14-111623	SM 2540C	764408		
50359957003	GAMW-13-111623	SM 2540C	764408		
50359957004	GAMW-06-111623	SM 2540C	764408		
50359957005	GAMW-10-111623	SM 2540C	764408		
50359957006	GAMW-07-111623	SM 2540C	764408		
50359957007	FB-01-111623	SM 2540C	764408		
50359957008	FD-02-111623	SM 2540C	764408		
50360160001	GAMW-22-112023	SM 2540C	764796		
50360160002	GAMW-22B-112023	SM 2540C	764796		
50360160003	GAMW-16-112023	SM 2540C	764796		
50360160004	FB-02-112023	SM 2540C	764796		
50360283001	GAMW-23-112123	SM 2540C	764982		
50360283002	GAMW-23B-112123	SM 2540C	764982		
50360283003	GAMW-18-112123	SM 2540C	764982		
50360446001	GAMW-11-112723	SM 2540C	765242		
50360446002	GAMW-11B-112723	SM 2540C	765242		
50360446003	GAMW-11C-112723	SM 2540C	765242		
50360534001	GAMW-17-112823	SM 2540C	765804		
50360534002	GAMW-17B-112823	SM 2540C	765804		
50360534003	FB-03-112823	SM 2540C	765804		
50360626001	MW-105-112923	SM 2540C	766046		
50360626002	MW-112-112923	SM 2540C	766046		
50360626003	GAMW-12R-112923	SM 2540C	766046		
50360626004	FD-03-112923	SM 2540C	766046		
50360695001	GAMW-08-113023	SM 2540C	766046		
50359718001	GAMW-01-111423	SM 4500-H+B	765658		
50359718002	GAMW-01B-111423	SM 4500-H+B	765658		
50359718003	GAMW-21-111423	SM 4500-H+B	765658		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50359718

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50359849001	GAMW-20-111523	SM 4500-H+B	766081		
50359849002	GAMW-19-111523	SM 4500-H+B	766081		
50359849003	GAMW-02-111523	SM 4500-H+B	766081		
50359849004	GAMW-03-111523	SM 4500-H+B	766081		
50359849005	GAMW-04-111523	SM 4500-H+B	766081		
50359849006	FD-01-111523	SM 4500-H+B	766081		
50359957001	GAMW-08B-111623	SM 4500-H+B	766087		
50359957002	GAMW-14-111623	SM 4500-H+B	766288		
50359957003	GAMW-13-111623	SM 4500-H+B	766288		
50359957004	GAMW-06-111623	SM 4500-H+B	766288		
50359957005	GAMW-10-111623	SM 4500-H+B	766288		
50359957006	GAMW-07-111623	SM 4500-H+B	766288		
50359957007	FB-01-111623	SM 4500-H+B	766288		
50359957008	FD-02-111623	SM 4500-H+B	766288		
50360160001	GAMW-22-112023	SM 4500-H+B	766728		
50360160002	GAMW-22B-112023	SM 4500-H+B	766728		
50360160003	GAMW-16-112023	SM 4500-H+B	766728		
50360160004	FB-02-112023	SM 4500-H+B	766728		
50360283001	GAMW-23-112123	SM 4500-H+B	766729		
50360283002	GAMW-23B-112123	SM 4500-H+B	766729		
50360283003	GAMW-18-112123	SM 4500-H+B	766729		
50360446001	GAMW-11-112723	SM 4500-H+B	767078		
50360446002	GAMW-11B-112723	SM 4500-H+B	767078		
50360446003	GAMW-11C-112723	SM 4500-H+B	767078		
50360534001	GAMW-17-112823	SM 4500-H+B	767627		
50360534002	GAMW-17B-112823	SM 4500-H+B	767627		
50360534003	FB-03-112823	SM 4500-H+B	767627		
50360626001	MW-105-112923	SM 4500-H+B	767630		
50360626002	MW-112-112923	SM 4500-H+B	767630		
50360626003	GAMW-12R-112923	SM 4500-H+B	767630		
50360626004	FD-03-112923	SM 4500-H+B	767630		
50360695001	GAMW-08-113023	SM 4500-H+B	768110		

REPORT OF LABORATORY ANALYSIS

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CHAIN-Of-Responsibility
The Chain-of-Responsibility

WO#: 50359718



50359718

ent
pleted accurately.

Section A Required Client Information:		Section B Required Project Information:	
Company: NiSource WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	
Address: 670 North Commercial Street Manchester, NH 03101	Copy To: Danielle Sylvia, Gabe Dixon	Company Name: NiSource	
Email: Thomas.Haskins@golder.com	Purchase Order #: PO42408	Address:	
Phone: (603)782-2433 Fax	Project Name: Bailly Assessment	Pace Quote:	
Requested Due Date: 10 day TAT	Project #: 31406779.012	Pace Project Manager: tina.sayer@pacelabs.com	
		Pace Profile #: 9046-1	

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	COLLECTED		SAMPLE TEMP AT COLLECTION	Preservatives										Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)		
				START DATE	END TIME		# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	TDS 2540C	pH 4500			
1	CANW-01-111423	W	G		11/14/23	1300	3	2	1														001
2	CANW-01B-111423	W	B		11/14/23	1500	3	2	1														002
3	CANW-21-111423	W	G		11/14/23	1515	3	2	1														003
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**B,Ca,Li by 6010; Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020 Hg by 7470		11/14/23	1800	Fedex	11/15/23	0900	1.1 Y Y Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Reported (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
DATE Signed: 11/14/23					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 11/15/23 1105 LR

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)		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.	X		
Short Hold Time Analysis (48 hours or less)? Analysis:		X	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:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
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 X
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:



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 2

Section A		Section B		Section C		Regulatory Agency	
Required Client Information:				Required Project Information:		Invoice Information:	
Company: NiSource WSP		Report To: Tom Haskins		Attention: Jeff Loewe U126177			
Address: 670 North Commercial Street		Copy To: Danielle Sylvia, Gabe Dixon		Company Name: NiSource			
Manchester, NH 03101				Address:			
Email: Thomas Haskins@golder.com		Purchase Order #: PO42408		Pace Quote:			
Phone: (603)782-2433 Fax:		Project Name: Bailly Assessment		Pace Project Manager: tina.sayer@pacelabs.com,		State / Location	
Requested Due Date: 10 day TAT		Project #: 31406779.012		Pace Profile #: 9046-1		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								Y/N	Requested Analysis Filtered (Y/N)	Analyses Test	Residual Chlorine (Y/N)				
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					Total metals **	Cl, F, SO4 by 9056	TDS 2540C	pH 4500
						DATE	TIME	DATE	TIME																		
1	BAMW-20-111523	WTG				11/15/23	1150	3	2	1															MS-01/MSB-01 001		
2	BAMW-19-111523	WTG				11/15/23	1400	3	2	1															002		
3	BAMW-02-111523	WTG				11/15/23	1050	3	2	1															003		
4	BAMW-03-111523	WTG				11/15/23	1235	3	2	1															004		
5	BAMW-04-111523	WTG				11/15/23	1420	3	2	1															005		
6	FD-01-111523	WTG				11/15/23	200	3	2	1															006		
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	WSP	11/15/23	1730	FedEx						
Be,Cr,Co,As,Sr,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	11/16/23	9:45	A. Williams	11/16/23	9:45	0.3	y	y	y
Hg by 7470							0.3			
							0.1			

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:						
SIGNATURE of SAMPLER:						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 11-16-23 11:28

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 0.3/0.3 0.1/0.1 _____
 (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.			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: <u>NO3 (<2)</u> 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)	<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>
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:



CHAIN-OF-CUSTODY / Analytical Request
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be filled out.

WO# : 50359957



50359957

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Regulatory Agency	
Company: NiSource WSP		Report To: Tom Haskins		Attention: Jeff Loewe U126177			
Address: 670 North Commercial Street Manchester, NH 03101		Copy To: Danielle Sylvia, Gabe Dixon		Company Name: NiSource		State / Location	
Email: Thomas.Haskins@golder.com		Purchase Order #: PO42408		Pace Quote:			
Phone: (603)782-2433 Fax		Project Name: Bailly Assessment		Pace Project Manager: tina.sayer@pacelabs.com			
Requested Due Date: 10 day TAT		Project #: 31406779.012		Pace Profile #: 9046-1		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 Soft/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							Y/N Analyses Test	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)			
						START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	Total metals **	Cl, F, SO4 by 9056		TDS 2540C	pH 4500	
						DATE	TIME	DATE	TIME																	
1	GAMW-08B-111623	WTG					11/16/23	1050	3	2	1														001	
2	GAMW-14-111623	WTG					11/16/23	1210	3	2	1															002
3	GAMW-13-111623	WTG					11/16/23	1355	3	2	1															003
4	GAMW-06-111623	WTG					11/16/23	1100	3	2	1															004
5	GAMW-10-111623	WTG					11/16/23	1300	3	2	1															005
6	GAMW-07-111623	WTG					11/16/23	1500	3	2	1															006
7	FB-01-111623	WTG					11/16/23	1230	3	2	1															007
8	FB-02-111623	WTG					11/16/23	1200	3	2	1															008
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS					
**B,Ca,Li by 6010; Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020 Hg by 7470	<i>[Signature]</i> / USD Fedex	11/16/23	1700	Fedex <i>[Signature]</i>	11/17/23	0945	11/17/23	0945	See Burl	7	7	7

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: <i>[Signature]</i>	DATE Signed: 11/16/23					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 11/17/23 1132 LR

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 1.4/1.3 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)		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:		X	Circle: HNO3 (>2) H2SO4 (<2) 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)		X	Trip Blank Custody Seals?:			X

COMMENTS:



CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields m

WO#: 50360160



50360160

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NiSource WSP		Report To: Tom Haskins		Attention: Jeff Loewe U126177	
Address: 670 North Commercial Street Manchester, NH 03101		Copy To: Danielle Sylvia, Gabe Dixon		Company Name: NiSource	
Email: Thomas_Haskins@golder.com		Purchase Order #: PO42408		Address:	
Phone: (603)782-2433 Fax		Project Name: Bailly Assessment		Pace Quote:	
Requested Due Date: 10 day TAT		Project #: 31406779.012		Pace Project Manager: tina.sayer@pacelabs.com,	
				Pace Profile #: 9046-1	
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	Preservatives									Y/N	Analyses Test Total metals ** Cl, F, SO4 by 9056 TDS 2540C pH 4500	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)									
				START		END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other														
				DATE	TIME	DATE	TIME																							
1	GAMW-22-112023	WT	G			11/20/23	1015	3	2	1																			001	
2	GAMW-22B-112023	WT	G			11/20/23	1135	3	2	1																			002	
3	GAMW-16-112023	WT	G			11/20/23	1305	3	2	1																			003	
4	FB-02-112023	WT	G			11/20/23	1320	3	2	1																			004	
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																				
**B,Ca,Li by 6010;		[Signature] NiSource		11/20/23	1530	Fedex																								
Be,Cr,Co,As,Se,Mo,Cd,Sb Ba,Tl,Pb by 6020		Fedex		11-21-23	0935	CR Pace		11-21-23	0935	0-8	4	4	4																	
Hg by 7470																														

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]						
SIGNATURE of SAMPLER: [Signature]						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 11-21-23 1146 CRK

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): 0.8/0.0
 (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:		/	Circle: <u>HNO3 (<2)</u> 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:



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: NiSource WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177			
Address: 670 North Commercial Street	Copy To: Danielle Sylvia, Gabe Dixon	Company Name: NiSource			
Manchester, NH 03101	Purchase Order #: PO42408	Address:		Regulatory Agency	
Email: Thomas.Haskins@golder.com	Project Name: Baily Assessment	Pace Quote:		State / Location	
Phone: (603)782-2433 Fax	Project #: 31406779.012	Pace Project Manager: tina.sayer@pacelabs.com		IN	
Requested Due Date: 10 day TAT		Pace Profile #: 9046-1			

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)					Residual Chlorine (Y/N)
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	Total metals **	Cl, F, SO4 by 9056	TDS 2540C	pH 4500	
				DATE	TIME	DATE	TIME																
1	BAMW-23 - 112123	WTG					11/21/23	1035	3	2	1										001		
2	BAMW-23B - 112123	WTG					11/21/23	1205	3	2	1											002	
3	BAMW-10 - 112123	WTB					11/21/23	1320	3	2	1											003	
4	[Redacted]																						
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	FURNISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;		11/21/23	1530	FedEx						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	11-22-23	9:10		11-22-23	9:10	0.4	y	y	y
Hg by 7470										

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:						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 11-22-23 10:24

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): 0.4/0.4
 (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)		<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:		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> 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)	<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 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:



WO#: 50360446



50360446

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 2

Section A

Required Client Information: Company: NiSource, Address: 670 North Commercial Street, Manchester, NH 03101, Email: Thomas.Haskins@golder.com, Phone: (603)782-2433, Requested Due Date: 10 day TAT

Section C

Invoice Information: Attention: Jeff Loewe U126177, Company Name: NiSource, Address: , Purchase Order #: PO42408, Project Name: Baily Assessment, Project #: 314010779.012, Pace Profile #: 9046-1

Regulatory Agency, State / Location, IN

Main data table with columns: ITEM #, SAMPLE ID, MATRIX CODE, COLLECTED (START/END), PRESERVATIVES, ANALYSES TEST, REQUESTED ANALYSIS FILTERED (Y/N), RESIDUAL CHLORINE (Y/N). Includes handwritten entries for items 1, 2, and 3.

Summary 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 section with fields for PRINT Name of SAMPLER, SIGNATURE of SAMPLER, DATE Signed, and TEMPERATURE/conditioning checkboxes.



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TW 11/28/23 950

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
 (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:		<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)	<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 CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 11/29/23 09:28

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): 1.3/1.3°C
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other Plastic
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:		<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:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<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)		<u>N/A</u>	Trip Blank Present?		<input checked="" type="checkbox"/>	
			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:



CHAIN-OF-CUSTODY /
The Chain-of-Custody is a LEGAL DOCUMENT

WO#: 50360626
50360626

1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NiSource WSP		Report To: Tom Haskins		Attention: Jeff Loewe U126177	
Address: 670 North Commercial Street Manchester, NH 03101		Copy To: Danielle Sylvia, Gabe Dixon		Company Name: NiSource	
Email: Thomas.Haskins@golder.com		Purchase Order #: PO42408		Address:	
Phone: (603)782-2433 Fax:		Project Name: Bailey Assessment		Pace Quote:	
Requested Due Date: 10 day TAT		Project #: 31406779.012		Pace Project Manager: tina.sayer@pacelabs.com,	
				Pace Profile #: 9046-1	

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 Total metals ** Cl, F, SO4 by 9056 TDS 2540C pH 4500	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
					START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
					DATE	TIME	DATE	TIME													
1	MW-105 - 112923		WT G		11/29/23	1030		3	2	1											
2	MW-112 - 112923		WT G		11/29/23	1150		3	2	1											
3	BAMW-12R - 112923		WT G		11/29/23	1300		3	2	1											
4	FD-03 - 112923		WT G		11/29/23	1200		3	2	1											
6	FD-06																				
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	<i>[Signature]</i> / WSP	11/29/23	1600	FedEx						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	11-30-23	0910	Michael Sells / PACE	11-30-23	0910	0.2	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Pimples (Y/N)
PRINT Name of SAMPLER: <i>[Signature]</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 11-30-2023 0947

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) 0.1/0.1
4. Cooler Temperature(s): 0.1/0.1
 (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)		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. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		X		X		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
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 X
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:



CHAIN-OF-CUSTODY / Analytical Request D
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mu:

WO# : 50360695



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NiSource_WSP		Report To: Tom Haskins		Attention: Jeff Loewe U126177	
Address: 670 North Commercial Street		Copy To: Danielle Sylvia, Gabe Dixon		Company Name: NiSource	
Manchester, NH 03101		Purchase Order #: PO42408		Address:	
Email: Thomas.Haskins@golder.com		Project Name: Bailly Assessment		Pace Quote:	
Phone: (603)782-2433 Fax:		Project #: 31406779.012		Pace Project Manager: tina.sayer@pacelabs.com	
Requested Due Date: 10 day TAT				Pace Profile #: 9046-1	
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	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	Methano	Other	Total metals **		Cl, F, SO4 by 9056	TDS 2540C	pH 4500			
				DATE	TIME			DATE	TIME																	
1	SAWV-08-113023	WFG			11/30/23	1005	3	2	1								X	X	X	X		0.1				
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			
**B,Ca,Li by 6010;	[Signature] JUSP	11/30/23	1200	FedEx						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	12-1-23	9:55	[Signature]	12-1-23	9:35	0.1	y	y	y
Hg by 7470										

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:						
SIGNATURE of SAMPLER: [Signature]						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 12-1-23 10:21

- 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): 0.2/0.1
(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.			
Short Hold Time Analysis (48 hours or less)? Analysis:		<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)			<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 <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)			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	WGFL	WGKU	BG1U	MeOH (only)		VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS							PLASTIC							OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc								
				SBS	DI					DG9H	VG9H	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B		BP3Z	CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black				
			R																													HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9				
1																																		WT	✓				
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
WGFL	4oz clear soil jar
JGFL	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



December 22, 2023

Mr. Tom Haskins
WSP Golder
10 Al Paul Lane
Suite 103
Merrimack, NH 03054

RE: Project: Bailly Assessment
Pace Project No.: 50359719

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between November 15, 2023 and December 01, 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 - Greensburg

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

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Gabe Dixon, WSP
Ms. Sarah Gilles, WSP Golder
Ms. Danielle Sylvia, WSP Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Bailly Assessment

Pace Project No.: 50359719

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

REPORT OF LABORATORY ANALYSIS

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**SAMPLE SUMMARY**

Project: Bailly Assessment

Pace Project No.: 50359719

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50359719001	GAMW-01-111423	Water	11/14/23 13:00	11/15/23 09:10
50359719002	GAMW-01B-111423	Water	11/14/23 15:00	11/15/23 09:10
50359719003	GAMW-21-111423	Water	11/14/23 15:15	11/15/23 09:10
50359851001	GAMW-20-111523	Water	11/15/23 11:50	11/16/23 09:45
50359851002	GAMW-20-111523 MS	Water	11/15/23 11:50	11/16/23 09:45
50359851003	GAMW-20-111523 MSD	Water	11/15/23 11:50	11/16/23 09:45
50359851004	GAMW-19-111523	Water	11/15/23 14:00	11/16/23 09:45
50359851005	GAMW-02-111523	Water	11/15/23 10:50	11/16/23 09:45
50359851006	GAMW-03-111523	Water	11/15/23 12:35	11/16/23 09:45
50359851007	GAMW-04-111523	Water	11/15/23 14:20	11/16/23 09:45
50359851008	FD-01-111523	Water	11/15/23 12:00	11/16/23 09:45
50360284001	GAMW-23-112123	Water	11/21/23 10:35	11/22/23 09:10
50360284002	GAMW-23B-112123	Water	11/21/23 12:05	11/22/23 09:10
50360284003	GAMW-18-112123	Water	11/21/23 13:20	11/22/23 09:10
50359959001	GAMW-08B-111623	Water	11/16/23 10:50	11/17/23 09:45
50359959002	GAMW-14-111623	Water	11/16/23 12:10	11/17/23 09:45
50359959003	GAMW-13-111623	Water	11/16/23 13:55	11/17/23 09:45
50359959004	GAMW-06-111623	Water	11/16/23 11:00	11/17/23 09:45
50359959005	GAMW-10-111623	Water	11/16/23 13:00	11/17/23 09:45
50359959006	GAMW-07-111623	Water	11/16/23 15:00	11/17/23 09:45
50359959007	FB-01-111623	Water	11/16/23 12:30	11/17/23 09:45
50359959008	FD-02-111623	Water	11/16/23 12:00	11/17/23 09:45
50360160005	GAMW-22-112023	Water	11/20/23 10:15	11/21/23 09:35
50360160006	GAMW-22B-112023	Water	11/20/23 11:35	11/21/23 09:35
50360160007	GAMW-16-112023	Water	11/20/23 13:05	11/21/23 09:35
50360160008	FB-02-112023	Water	11/20/23 13:20	11/21/23 09:35
50360447001	GAMW-11-112723	Water	11/27/23 10:30	11/28/23 09:05
50360447002	GAMW-11B-112723	Water	11/27/23 11:50	11/28/23 09:05
50360447003	GAMW-11C-112723	Water	11/27/23 11:50	11/28/23 09:05
50360447004	GAMW-11C-112723 MS	Water	11/27/23 11:50	11/28/23 09:05
50360447005	GAMW-11C-112723 MSD	Water	11/27/23 11:50	11/28/23 09:05
50360530001	GAMW-17-112823	Water	11/28/23 10:40	11/29/23 09:05
50360530002	GAMW-17B-112823	Water	11/28/23 13:20	11/29/23 09:05
50360530003	FB-03-112823	Water	11/28/23 10:50	11/29/23 09:05
50360624001	MW-105-112923	Water	11/29/23 10:30	11/30/23 09:10
50360624002	MW-112-112923	Water	11/29/23 11:50	11/30/23 09:10
50360624003	GAMW-12R-112923	Water	11/29/23 13:00	11/30/23 09:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Baily Assessment
Pace Project No.: 50359719

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50360624004	FD-03-112923	Water	11/29/23 12:00	11/30/23 09:10
50360701001	GAMW-08-113023	Water	11/30/23 10:05	12/01/23 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50359719

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50359719001	GAMW-01-111423	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359719002	GAMW-01B-111423	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359719003	GAMW-21-111423	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359851001	GAMW-20-111523	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50359851002	GAMW-20-111523 MS	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50359851003	GAMW-20-111523 MSD	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50359851004	GAMW-19-111523	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50359851005	GAMW-02-111523	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50359851006	GAMW-03-111523	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50359851007	GAMW-04-111523	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50359851008	FD-01-111523	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50360284001	GAMW-23-112123	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50360284002	GAMW-23B-112123	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bailly Assessment

Pace Project No.: 50359719

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50360284003	GAMW-18-112123	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359959001	GAMW-08B-111623	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359959002	GAMW-14-111623	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359959003	GAMW-13-111623	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359959004	GAMW-06-111623	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359959005	GAMW-10-111623	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359959006	GAMW-07-111623	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359959007	FB-01-111623	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50359959008	FD-02-111623	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50360160005	GAMW-22-112023	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50360160006	GAMW-22B-112023	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50360160007	GAMW-16-112023	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50360160008	FB-02-112023	EPA 903.1	MAR1	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Baily Assessment

Pace Project No.: 50359719

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50360447001	GAMW-11-112723	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50360447002	GAMW-11B-112723	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50360447003	GAMW-11C-112723	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
50360447004	GAMW-11C-112723 MS	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50360447005	GAMW-11C-112723 MSD	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
50360530001	GAMW-17-112823	EPA 904.0	JJS1	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50360530002	GAMW-17B-112823	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
50360530003	FB-03-112823	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50360624001	MW-105-112923	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50360624002	MW-112-112923	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
50360624003	GAMW-12R-112923	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50360624004	FD-03-112923	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50360701001	GAMW-08-113023	EPA 903.1	MAR1	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Baily Assessment
Pace Project No.: 50359719

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50359719001	GAMW-01-111423					
EPA 903.1	Radium-226	0.474 ± 0.438 (0.638)	pCi/L		11/29/23 13:16	
EPA 904.0	Radium-228	0.564 ± 0.409 (0.804) C:NA T:90%	pCi/L		11/28/23 11:37	
Total Radium Calculation	Total Radium	1.04 ± 0.847 (1.44) T:83%	pCi/L		11/30/23 09:18	
50359719002	GAMW-01B-111423					
EPA 903.1	Radium-226	0.126 ± 0.553 (1.05) C:NA	pCi/L		11/29/23 13:16	
EPA 904.0	Radium-228	0.635 ± 0.386 (0.726) C:85% T:91%	pCi/L		11/28/23 11:37	
Total Radium Calculation	Total Radium	0.761 ± 0.939 (1.78) T:84%	pCi/L		11/30/23 09:18	
50359719003	GAMW-21-111423					
EPA 903.1	Radium-226	-0.142 ± 0.591 (1.24) C:NA	pCi/L		11/29/23 13:16	
EPA 904.0	Radium-228	0.484 ± 0.381 (0.757) C:82% T:93%	pCi/L		11/28/23 11:37	
Total Radium Calculation	Total Radium	0.484 ± 0.972 (2.00) T:82%	pCi/L		11/30/23 09:18	
50359851001	GAMW-20-111523					
EPA 903.1	Radium-226	-0.103 ± 0.350 (0.774)	pCi/L		12/12/23 13:23	
EPA 904.0	Radium-228	0.156 ± 0.350 (0.776) C:80% T:90%	pCi/L		12/07/23 11:28	
Total Radium Calculation	Total Radium	0.156 ± 0.700 (1.55) T:74%	pCi/L		12/12/23 15:33	

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50359851002	GAMW-20-111523 MS					
EPA 903.1	Radium-226	96.32 %REC ± NA (NA) C:NA T:NA	pCi/L		12/12/23 13:23	
EPA 904.0	Radium-228	99.96 %REC ± NA (NA) C:NA T:NA	pCi/L		12/07/23 11:28	
50359851003	GAMW-20-111523 MSD					
EPA 903.1	Radium-226	110.07 %REC 13.32RPD ± NA (NA) C:NA T:NA	pCi/L		12/12/23 13:23	
EPA 904.0	Radium-228	99.33 %REC 0.63RPD ± NA (NA) C:NA T:NA	pCi/L		12/07/23 11:28	
50359851004	GAMW-19-111523					
EPA 903.1	Radium-226	-0.578 ± 0.552 (1.29) C:NA T:85%	pCi/L		12/12/23 14:24	
EPA 904.0	Radium-228	0.474 ± 0.359 (0.700) C:83% T:78%	pCi/L		12/07/23 11:28	
Total Radium Calculation	Total Radium	0.474 ± 0.911 (1.99)	pCi/L		12/12/23 15:33	
50359851005	GAMW-02-111523					
EPA 903.1	Radium-226	0.000 ± 0.302 (0.676) C:NA T:86%	pCi/L		12/12/23 13:35	
EPA 904.0	Radium-228	1.00 ± 0.526 (0.961) C:83% T:73%	pCi/L		12/07/23 11:29	
Total Radium Calculation	Total Radium	1.000 ± 0.828 (1.64)	pCi/L		12/12/23 15:33	
50359851006	GAMW-03-111523					
EPA 903.1	Radium-226	0.271 ± 0.460 (0.813) C:NA T:83%	pCi/L		12/12/23 13:35	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50359851006	GAMW-03-111523					
EPA 904.0	Radium-228	0.867 ± 0.564 (1.08) C:60% T:83%	pCi/L		12/07/23 11:29	
Total Radium Calculation	Total Radium	1.14 ± 1.02 (1.89)	pCi/L		12/12/23 15:33	
50359851007	GAMW-04-111523					
EPA 903.1	Radium-226	-0.0637 ± 0.375 (0.835) C:NA T:82%	pCi/L		12/12/23 13:35	
EPA 904.0	Radium-228	0.352 ± 0.423 (0.897) C:82% T:77%	pCi/L		12/07/23 11:29	
Total Radium Calculation	Total Radium	0.352 ± 0.798 (1.73)	pCi/L		12/12/23 15:33	
50359851008	FD-01-111523					
EPA 903.1	Radium-226	0.187 ± 0.367 (0.670) C:NA T:85%	pCi/L		12/12/23 13:35	
EPA 904.0	Radium-228	0.923 ± 0.484 (0.875) C:86% T:78%	pCi/L		12/07/23 11:29	
Total Radium Calculation	Total Radium	1.11 ± 0.851 (1.55)	pCi/L		12/12/23 15:33	
50360284001	GAMW-23-112123					
EPA 903.1	Radium-226	0.0614 ± 0.280 (0.166) C:NA T:84%	pCi/L		12/19/23 12:55	
EPA 904.0	Radium-228	-0.0147 ± 0.276 (0.651) C:91% T:81%	pCi/L		12/13/23 14:16	
Total Radium Calculation	Total Radium	0.0614 ± 0.556 (0.817)	pCi/L		12/19/23 15:26	
50360284002	GAMW-23B-112123					
EPA 903.1	Radium-226	0.197 ± 0.362 (0.646) C:NA T:91%	pCi/L		12/19/23 12:55	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360284002	GAMW-23B-112123					
EPA 904.0	Radium-228	0.517 ± 0.342 (0.644) C:90% T:79%	pCi/L		12/13/23 14:17	
Total Radium Calculation	Total Radium	0.714 ± 0.704 (1.29)	pCi/L		12/19/23 15:26	
50360284003	GAMW-18-112123					
EPA 903.1	Radium-226	0.663 ± 0.536 (0.779) C:NA T:89%	pCi/L		12/19/23 12:55	
EPA 904.0	Radium-228	0.509 ± 0.323 (0.597) C:87% T:85%	pCi/L		12/13/23 14:17	
Total Radium Calculation	Total Radium	1.17 ± 0.859 (1.38)	pCi/L		12/19/23 15:26	
50359959001	GAMW-08B-111623					
EPA 903.1	Radium-226	-0.122 ± 0.416 (0.919) C:NA T:92%	pCi/L		12/13/23 16:03	
EPA 904.0	Radium-228	0.424 ± 0.340 (0.661) C:89% T:82%	pCi/L		12/07/23 13:34	
Total Radium Calculation	Total Radium	0.424 ± 0.756 (1.58)	pCi/L		12/14/23 14:51	
50359959002	GAMW-14-111623					
EPA 903.1	Radium-226	-0.135 ± 0.647 (1.31) C:NA T:84%	pCi/L		12/13/23 16:03	
EPA 904.0	Radium-228	0.616 ± 0.360 (0.644) C:87% T:76%	pCi/L		12/07/23 13:34	
Total Radium Calculation	Total Radium	0.616 ± 1.01 (1.95)	pCi/L		12/14/23 14:51	
50359959003	GAMW-13-111623					
EPA 903.1	Radium-226	0.000 ± 0.590 (1.16) C:NA T:89%	pCi/L		12/13/23 16:03	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50359959003	GAMW-13-111623					
EPA 904.0	Radium-228	0.899 ± 0.424 (0.706) C:83% T:79%	pCi/L		12/07/23 13:35	
Total Radium Calculation	Total Radium	0.899 ± 1.01 (1.87)	pCi/L		12/14/23 14:51	
50359959004	GAMW-06-111623					
EPA 903.1	Radium-226	0.330 ± 0.572 (0.998) C:NA T:92%	pCi/L		12/13/23 16:03	
EPA 904.0	Radium-228	0.797 ± 0.413 (0.718) C:85% T:82%	pCi/L		12/07/23 13:35	
Total Radium Calculation	Total Radium	1.13 ± 0.985 (1.72)	pCi/L		12/14/23 14:51	
50359959005	GAMW-10-111623					
EPA 903.1	Radium-226	0.179 ± 0.509 (0.944) C:NA T:87%	pCi/L		12/13/23 16:03	
EPA 904.0	Radium-228	0.321 ± 0.337 (0.695) C:83% T:82%	pCi/L		12/07/23 13:35	
Total Radium Calculation	Total Radium	0.500 ± 0.846 (1.64)	pCi/L		12/14/23 14:51	
50359959006	GAMW-07-111623					
EPA 903.1	Radium-226	-0.812 ± 0.657 (1.52) C:NA T:89%	pCi/L		12/13/23 16:03	
EPA 904.0	Radium-228	0.778 ± 0.385 (0.659) C:86% T:86%	pCi/L		12/07/23 13:35	
Total Radium Calculation	Total Radium	0.778 ± 1.04 (2.18)	pCi/L		12/14/23 14:51	
50359959007	FB-01-111623					
EPA 903.1	Radium-226	0.0620 ± 0.654 (1.25) C:NA T:90%	pCi/L		12/13/23 16:03	

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50359959007	FB-01-111623					
EPA 904.0	Radium-228	-0.0590 ± 0.285 (0.684) C:86% T:83%	pCi/L		12/07/23 13:35	
Total Radium Calculation	Total Radium	0.0620 ± 0.939 (1.93)	pCi/L		12/14/23 14:51	
50359959008	FD-02-111623					
EPA 903.1	Radium-226	-0.218 ± 0.620 (1.31) C:NA T:82%	pCi/L		12/13/23 16:16	
EPA 904.0	Radium-228	0.768 ± 0.396 (0.689) C:88% T:78%	pCi/L		12/07/23 13:35	
Total Radium Calculation	Total Radium	0.768 ± 1.02 (2.00)	pCi/L		12/14/23 14:51	
50360160005	GAMW-22-112023					
EPA 903.1	Radium-226	-0.0575 ± 0.374 (0.811) C:NA T:89%	pCi/L		12/15/23 13:53	
EPA 904.0	Radium-228	0.160 ± 0.381 (0.849) C:66% T:83%	pCi/L		12/12/23 14:58	
Total Radium Calculation	Total Radium	0.160 ± 0.755 (1.66)	pCi/L		12/15/23 16:08	
50360160006	GAMW-22B-112023					
EPA 903.1	Radium-226	0.0587 ± 0.304 (0.632) C:NA T:87%	pCi/L		12/15/23 14:09	
EPA 904.0	Radium-228	1.08 ± 0.440 (0.658) C:80% T:85%	pCi/L		12/12/23 14:58	
Total Radium Calculation	Total Radium	1.14 ± 0.744 (1.29)	pCi/L		12/15/23 16:08	
50360160007	GAMW-16-112023					
EPA 903.1	Radium-226	0.317 ± 0.375 (0.590) C:NA T:86%	pCi/L		12/15/23 14:21	

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360160007	GAMW-16-112023					
EPA 904.0	Radium-228	0.164 ± 0.328 (0.726) C:75% T:81%	pCi/L		12/12/23 14:59	
Total Radium Calculation	Total Radium	0.481 ± 0.703 (1.32)	pCi/L		12/15/23 16:08	
50360160008	FB-02-112023					
EPA 903.1	Radium-226	0.442 ± 0.414 (0.587) C:NA T:88%	pCi/L		12/15/23 14:09	
EPA 904.0	Radium-228	-0.239 ± 0.259 (0.683) C:79% T:82%	pCi/L		12/12/23 14:59	
Total Radium Calculation	Total Radium	0.442 ± 0.673 (1.27)	pCi/L		12/15/23 16:08	
50360447001	GAMW-11-112723					
EPA 903.1	Radium-226	-0.195 ± 0.422 (0.974) C:NA T:87%	pCi/L		12/20/23 13:13	
EPA 904.0	Radium-228	0.585 ± 0.434 (0.861) C:82% T:82%	pCi/L		12/15/23 11:50	
Total Radium Calculation	Total Radium	0.585 ± 0.856 (1.84)	pCi/L		12/20/23 16:57	
50360447002	GAMW-11B-112723					
EPA 903.1	Radium-226	0.719 ± 0.670 (1.04) C:NA T:81%	pCi/L		12/20/23 13:13	
EPA 904.0	Radium-228	1.02 ± 0.483 (0.840) C:84% T:80%	pCi/L		12/15/23 11:50	
Total Radium Calculation	Total Radium	1.74 ± 1.15 (1.88)	pCi/L		12/20/23 16:57	
50360447003	GAMW-11C-112723					
EPA 903.1	Radium-226	0.0405 ± 0.346 (0.675) C:NA T:92%	pCi/L		12/20/23 13:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360447003	GAMW-11C-112723					
EPA 904.0	Radium-228	0.339 ± 0.299 (0.599) C:85% T:83%	pCi/L		12/15/23 11:50	
Total Radium Calculation	Total Radium	0.380 ± 0.645 (1.27)	pCi/L		12/20/23 16:57	
50360447004	GAMW-11C-112723 MS					
EPA 903.1	Radium-226	110.17 %REC ± NA (NA) C:NA T:NA	pCi/L		12/20/23 13:13	
EPA 904.0	Radium-228	66.21 %REC ± NA (NA) C:NA T:NA	pCi/L		12/15/23 11:50	
50360447005	GAMW-11C-112723 MSD					
EPA 903.1	Radium-226	95.75 %REC 14.01RPD ± NA (NA) C:NA T:NA	pCi/L		12/20/23 13:13	
EPA 904.0	Radium-228	73.70 %REC 10.71RPD ± NA (NA) C:NA T:NA	pCi/L		12/15/23 11:50	
50360530001	GAMW-17-112823					
EPA 903.1	Radium-226	0.602 ± 0.632 (1.00) C:NA T:95%	pCi/L		12/20/23 12:35	
EPA 904.0	Radium-228	0.341 ± 0.388 (0.811) C:75% T:77%	pCi/L		12/18/23 12:39	
Total Radium Calculation	Total Radium	0.943 ± 1.02 (1.81)	pCi/L		12/20/23 16:24	
50360530002	GAMW-17B-112823					
EPA 903.1	Radium-226	0.000 ± 0.627 (1.28) C:NA T:78%	pCi/L		12/20/23 12:35	
EPA 904.0	Radium-228	0.404 ± 0.353 (0.703) C:76% T:78%	pCi/L		12/18/23 12:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Baily Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360530002	GAMW-17B-112823					
Total Radium Calculation	Total Radium	0.404 ± 0.980 (1.98)	pCi/L		12/20/23 16:24	
50360530003	FB-03-112823					
EPA 903.1	Radium-226	0.407 ± 0.597 (1.02) C:NA T:96%	pCi/L		12/20/23 12:35	
EPA 904.0	Radium-228	0.179 ± 0.293 (0.636) C:77% T:88%	pCi/L		12/18/23 12:39	
Total Radium Calculation	Total Radium	0.586 ± 0.890 (1.66)	pCi/L		12/20/23 16:24	
50360624001	MW-105-112923					
EPA 903.1	Radium-226	0.250 ± 0.459 (0.819) C:NA T:83%	pCi/L		12/21/23 12:14	
EPA 904.0	Radium-228	0.708 ± 0.395 (0.715) C:84% T:78%	pCi/L		12/15/23 11:49	
Total Radium Calculation	Total Radium	0.958 ± 0.854 (1.53)	pCi/L		12/21/23 14:35	
50360624002	MW-112-112923					
EPA 903.1	Radium-226	0.346 ± 0.481 (0.813) C:NA T:91%	pCi/L		12/21/23 12:14	
EPA 904.0	Radium-228	0.855 ± 0.434 (0.763) C:80% T:78%	pCi/L		12/15/23 11:49	
Total Radium Calculation	Total Radium	1.20 ± 0.915 (1.58)	pCi/L		12/21/23 14:35	
50360624003	GAMW-12R-112923					
EPA 903.1	Radium-226	0.275 ± 0.446 (0.775) C:NA T:89%	pCi/L		12/21/23 12:14	
EPA 904.0	Radium-228	0.744 ± 0.399 (0.701) C:84% T:75%	pCi/L		12/15/23 11:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bailly Assessment

Pace Project No.: 50359719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50360624003	GAMW-12R-112923					
Total Radium Calculation	Total Radium	1.02 ± 0.845 (1.48)	pCi/L		12/21/23 14:35	
50360624004	FD-03-112923					
EPA 903.1	Radium-226	-0.507 ± 0.622 (1.41) C:NA	pCi/L		12/21/23 12:26	
EPA 904.0	Radium-228	T:82% 1.53 ± 0.554 (0.760) C:76% T:72%	pCi/L		12/15/23 11:49	
Total Radium Calculation	Total Radium	1.53 ± 1.18 (2.17)	pCi/L		12/21/23 14:35	
50360701001	GAMW-08-113023					
EPA 903.1	Radium-226	-0.117 ± 0.397 (0.878)	pCi/L		12/21/23 12:39	
EPA 904.0	Radium-228	C:NA T:85% 0.315 ± 0.335 (0.694) C:84% T:83%	pCi/L		12/15/23 15:16	
Total Radium Calculation	Total Radium	0.315 ± 0.732 (1.57)	pCi/L		12/21/23 14:35	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359719

Method: EPA 903.1

Description: 903.1 Radium 226

Client: NiSource_WSP Golder

Date: December 22, 2023

General Information:

39 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359719

Method: EPA 904.0

Description: 904.0 Radium 228

Client: NiSource_WSP Golder

Date: December 22, 2023

General Information:

39 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bailly Assessment

Pace Project No.: 50359719

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: NiSource_WSP Golder

Date: December 22, 2023

General Information:

35 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-01-111423 **Lab ID: 50359719001** Collected: 11/14/23 13:00 Received: 11/15/23 09:10 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	0.474 ± 0.438 (0.638) C:NA T:90%	pCi/L	11/29/23 13:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.564 ± 0.409 (0.804) C:82% T:83%	pCi/L	11/28/23 11:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04 ± 0.847 (1.44)	pCi/L	11/30/23 09:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-01B-111423 **Lab ID: 50359719002** Collected: 11/14/23 15:00 Received: 11/15/23 09:10 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	0.126 ± 0.553 (1.05) C:NA T:91%	pCi/L	11/29/23 13:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.635 ± 0.386 (0.726) C:85% T:84%	pCi/L	11/28/23 11:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.761 ± 0.939 (1.78)	pCi/L	11/30/23 09:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-21-111423 **Lab ID: 50359719003** Collected: 11/14/23 15:15 Received: 11/15/23 09:10 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	-0.142 ± 0.591 (1.24) C:NA T:93%	pCi/L	11/29/23 13:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.484 ± 0.381 (0.757) C:82% T:82%	pCi/L	11/28/23 11:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.484 ± 0.972 (2.00)	pCi/L	11/30/23 09:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.103 ± 0.350 (0.774) C:NA T:90%	pCi/L	12/12/23 13:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.156 ± 0.350 (0.776) C:80% T:74%	pCi/L	12/07/23 11:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.156 ± 0.700 (1.55)	pCi/L	12/12/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	96.32 %REC ± NA (NA) C:NA T:NA	pCi/L	12/12/23 13:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	99.96 %REC ± NA (NA) C:NA T:NA	pCi/L	12/07/23 11:28	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-20-111523 MSD **Lab ID: 50359851003** Collected: 11/15/23 11:50 Received: 11/16/23 09:45 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	110.07 %REC 13.32RPD ± NA (NA) C:NA T:NA	pCi/L	12/12/23 13:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	99.33 %REC 0.63RPD ± NA (NA) C:NA T:NA	pCi/L	12/07/23 11:28	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-19-111523	Lab ID: 50359851004	Collected: 11/15/23 14:00	Received: 11/16/23 09:45	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	-0.578 ± 0.552 (1.29) C:NA T:85%	pCi/L	12/12/23 14:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.474 ± 0.359 (0.700) C:83% T:78%	pCi/L	12/07/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.474 ± 0.911 (1.99)	pCi/L	12/12/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.302 (0.676) C:NA T:86%	pCi/L	12/12/23 13:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.00 ± 0.526 (0.961) C:83% T:73%	pCi/L	12/07/23 11:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.000 ± 0.828 (1.64)	pCi/L	12/12/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Bailly Assessment

Pace Project No.: 50359719

Sample: **GAMW-03-111523** Lab ID: **50359851006** Collected: 11/15/23 12:35 Received: 11/16/23 09:45 Matrix: Water

PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, 5 mls of nitric acid were added to 1 of 2 bottles of the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis. The samples were preserved <2 within the required 5 days of collection.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.271 ± 0.460 (0.813) C:NA T:83%	pCi/L	12/12/23 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.867 ± 0.564 (1.08) C:60% T:83%	pCi/L	12/07/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.14 ± 1.02 (1.89)	pCi/L	12/12/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: GAMW-04-111523 Lab ID: 50359851007 Collected: 11/15/23 14:20 Received: 11/16/23 09:45 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0637 ± 0.375 (0.835) C:NA T:82%	pCi/L	12/12/23 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.352 ± 0.423 (0.897) C:82% T:77%	pCi/L	12/07/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.352 ± 0.798 (1.73)	pCi/L	12/12/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FD-01-111523 Lab ID: 50359851008 Collected: 11/15/23 12:00 Received: 11/16/23 09:45 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.187 ± 0.367 (0.670) C:NA T:85%	pCi/L	12/12/23 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.923 ± 0.484 (0.875) C:86% T:78%	pCi/L	12/07/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.11 ± 0.851 (1.55)	pCi/L	12/12/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-23-112123 **Lab ID: 50360284001** Collected: 11/21/23 10:35 Received: 11/22/23 09:10 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	0.0614 ± 0.280 (0.166) C:NA T:84%	pCi/L	12/19/23 12:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.0147 ± 0.276 (0.651) C:91% T:81%	pCi/L	12/13/23 14:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0614 ± 0.556 (0.817)	pCi/L	12/19/23 15:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-23B-112123 **Lab ID: 50360284002** Collected: 11/21/23 12:05 Received: 11/22/23 09:10 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	0.197 ± 0.362 (0.646) C:NA T:91%	pCi/L	12/19/23 12:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.517 ± 0.342 (0.644) C:90% T:79%	pCi/L	12/13/23 14:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.714 ± 0.704 (1.29)	pCi/L	12/19/23 15:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-18-112123 **Lab ID: 50360284003** Collected: 11/21/23 13:20 Received: 11/22/23 09:10 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	0.663 ± 0.536 (0.779) C:NA T:89%	pCi/L	12/19/23 12:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.509 ± 0.323 (0.597) C:87% T:85%	pCi/L	12/13/23 14:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.17 ± 0.859 (1.38)	pCi/L	12/19/23 15:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-08B-111623	Lab ID: 50359959001	Collected: 11/16/23 10:50	Received: 11/17/23 09:45	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	-0.122 ± 0.416 (0.919) C:NA T:92%	pCi/L	12/13/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.424 ± 0.340 (0.661) C:89% T:82%	pCi/L	12/07/23 13:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.424 ± 0.756 (1.58)	pCi/L	12/14/23 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: GAMW-14-111623 Lab ID: 50359959002 Collected: 11/16/23 12:10 Received: 11/17/23 09:45 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.135 ± 0.647 (1.31) C:NA T:84%	pCi/L	12/13/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.616 ± 0.360 (0.644) C:87% T:76%	pCi/L	12/07/23 13:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.616 ± 1.01 (1.95)	pCi/L	12/14/23 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-13-111623 **Lab ID: 50359959003** Collected: 11/16/23 13:55 Received: 11/17/23 09:45 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 ± 0.590 (1.16) C:NA T:89%	pCi/L	12/13/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.899 ± 0.424 (0.706) C:83% T:79%	pCi/L	12/07/23 13:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.899 ± 1.01 (1.87)	pCi/L	12/14/23 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-06-111623 **Lab ID: 50359959004** Collected: 11/16/23 11:00 Received: 11/17/23 09:45 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	0.330 ± 0.572 (0.998) C:NA T:92%	pCi/L	12/13/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.797 ± 0.413 (0.718) C:85% T:82%	pCi/L	12/07/23 13:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.13 ± 0.985 (1.72)	pCi/L	12/14/23 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-10-111623 **Lab ID: 50359959005** Collected: 11/16/23 13:00 Received: 11/17/23 09:45 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	0.179 ± 0.509 (0.944) C:NA T:87%	pCi/L	12/13/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.321 ± 0.337 (0.695) C:83% T:82%	pCi/L	12/07/23 13:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.500 ± 0.846 (1.64)	pCi/L	12/14/23 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-07-111623 **Lab ID: 50359959006** Collected: 11/16/23 15:00 Received: 11/17/23 09:45 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	-0.812 ± 0.657 (1.52) C:NA T:89%	pCi/L	12/13/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.778 ± 0.385 (0.659) C:86% T:86%	pCi/L	12/07/23 13:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.778 ± 1.04 (2.18)	pCi/L	12/14/23 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: FB-01-111623 **Lab ID: 50359959007** Collected: 11/16/23 12:30 Received: 11/17/23 09:45 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	0.0620 ± 0.654 (1.25) C:NA T:90%	pCi/L	12/13/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.0590 ± 0.285 (0.684) C:86% T:83%	pCi/L	12/07/23 13:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0620 ± 0.939 (1.93)	pCi/L	12/14/23 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FD-02-111623 Lab ID: 50359959008 Collected: 11/16/23 12:00 Received: 11/17/23 09:45 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.218 ± 0.620 (1.31) C:NA T:82%	pCi/L	12/13/23 16:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.768 ± 0.396 (0.689) C:88% T:78%	pCi/L	12/07/23 13:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.768 ± 1.02 (2.00)	pCi/L	12/14/23 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-22-112023 **Lab ID: 50360160005** Collected: 11/20/23 10:15 Received: 11/21/23 09:35 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	-0.0575 ± 0.374 (0.811) C:NA T:89%	pCi/L	12/15/23 13:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.160 ± 0.381 (0.849) C:66% T:83%	pCi/L	12/12/23 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.160 ± 0.755 (1.66)	pCi/L	12/15/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-22B-112023 **Lab ID: 50360160006** Collected: 11/20/23 11:35 Received: 11/21/23 09:35 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	0.0587 ± 0.304 (0.632) C:NA T:87%	pCi/L	12/15/23 14:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.08 ± 0.440 (0.658) C:80% T:85%	pCi/L	12/12/23 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.14 ± 0.744 (1.29)	pCi/L	12/15/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-16-112023 **Lab ID: 50360160007** Collected: 11/20/23 13:05 Received: 11/21/23 09:35 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	0.317 ± 0.375 (0.590) C:NA T:86%	pCi/L	12/15/23 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.164 ± 0.328 (0.726) C:75% T:81%	pCi/L	12/12/23 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.481 ± 0.703 (1.32)	pCi/L	12/15/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: FB-02-112023	Lab ID: 50360160008	Collected: 11/20/23 13:20	Received: 11/21/23 09:35	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	0.442 ± 0.414 (0.587) C:NA T:88%	pCi/L	12/15/23 14:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	-0.239 ± 0.259 (0.683) C:79% T:82%	pCi/L	12/12/23 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.442 ± 0.673 (1.27)	pCi/L	12/15/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-11-112723 **Lab ID: 50360447001** Collected: 11/27/23 10:30 Received: 11/28/23 09:05 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	-0.195 ± 0.422 (0.974) C:NA T:87%	pCi/L	12/20/23 13:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.585 ± 0.434 (0.861) C:82% T:82%	pCi/L	12/15/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.585 ± 0.856 (1.84)	pCi/L	12/20/23 16:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-11B-112723 **Lab ID: 50360447002** Collected: 11/27/23 11:50 Received: 11/28/23 09:05 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	0.719 ± 0.670 (1.04) C:NA T:81%	pCi/L	12/20/23 13:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.02 ± 0.483 (0.840) C:84% T:80%	pCi/L	12/15/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.74 ± 1.15 (1.88)	pCi/L	12/20/23 16:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-11C-112723 **Lab ID: 50360447003** Collected: 11/27/23 11:50 Received: 11/28/23 09:05 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	0.0405 ± 0.346 (0.675) C:NA T:92%	pCi/L	12/20/23 13:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.339 ± 0.299 (0.599) C:85% T:83%	pCi/L	12/15/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.380 ± 0.645 (1.27)	pCi/L	12/20/23 16:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-11C-112723 MS **Lab ID: 50360447004** Collected: 11/27/23 11:50 Received: 11/28/23 09:05 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	110.17 %REC ± NA (NA) C:NA T:NA	pCi/L	12/20/23 13:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	66.21 %REC ± NA (NA) C:NA T:NA	pCi/L	12/15/23 11:50	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-11C-112723 MSD **Lab ID: 50360447005** Collected: 11/27/23 11:50 Received: 11/28/23 09:05 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	95.75 %REC 14.01RPD ± NA (NA) C:NA T:NA	pCi/L	12/20/23 13:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	73.70 %REC 10.71RPD ± NA (NA) C:NA T:NA	pCi/L	12/15/23 11:50	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-17-112823 **Lab ID: 50360530001** Collected: 11/28/23 10:40 Received: 11/29/23 09:05 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	0.602 ± 0.632 (1.00) C:NA T:95%	pCi/L	12/20/23 12:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.341 ± 0.388 (0.811) C:75% T:77%	pCi/L	12/18/23 12:39	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.943 ± 1.02 (1.81)	pCi/L	12/20/23 16:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-17B-112823 **Lab ID: 50360530002** Collected: 11/28/23 13:20 Received: 11/29/23 09:05 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 ± 0.627 (1.28) C:NA T:78%	pCi/L	12/20/23 12:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.404 ± 0.353 (0.703) C:76% T:78%	pCi/L	12/18/23 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.404 ± 0.980 (1.98)	pCi/L	12/20/23 16:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-03-112823 Lab ID: 50360530003 Collected: 11/28/23 10:50 Received: 11/29/23 09:05 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.407 ± 0.597 (1.02) C:NA T:96%	pCi/L	12/20/23 12:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.179 ± 0.293 (0.636) C:77% T:88%	pCi/L	12/18/23 12:39	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.586 ± 0.890 (1.66)	pCi/L	12/20/23 16:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: MW-105-112923 **Lab ID: 50360624001** Collected: 11/29/23 10:30 Received: 11/30/23 09:10 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	0.250 ± 0.459 (0.819) C:NA T:83%	pCi/L	12/21/23 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.708 ± 0.395 (0.715) C:84% T:78%	pCi/L	12/15/23 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.958 ± 0.854 (1.53)	pCi/L	12/21/23 14:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: MW-112-112923	Lab ID: 50360624002	Collected: 11/29/23 11:50	Received: 11/30/23 09:10	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	0.346 ± 0.481 (0.813) C:NA T:91%	pCi/L	12/21/23 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.855 ± 0.434 (0.763) C:80% T:78%	pCi/L	12/15/23 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20 ± 0.915 (1.58)	pCi/L	12/21/23 14:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-12R-112923 **Lab ID: 50360624003** Collected: 11/29/23 13:00 Received: 11/30/23 09:10 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	0.275 ± 0.446 (0.775) C:NA T:89%	pCi/L	12/21/23 12:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.744 ± 0.399 (0.701) C:84% T:75%	pCi/L	12/15/23 11:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.02 ± 0.845 (1.48)	pCi/L	12/21/23 14:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: FD-03-112923	Lab ID: 50360624004	Collected: 11/29/23 12:00	Received: 11/30/23 09:10	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	-0.507 ± 0.622 (1.41) C:NA T:82%	pCi/L	12/21/23 12:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.53 ± 0.554 (0.760) C:76% T:72%	pCi/L	12/15/23 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.53 ± 1.18 (2.17)	pCi/L	12/21/23 14:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

Sample: GAMW-08-113023 **Lab ID: 50360701001** Collected: 11/30/23 10:05 Received: 12/01/23 09:35 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	-0.117 ± 0.397 (0.878) C:NA T:85%	pCi/L	12/21/23 12:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.315 ± 0.335 (0.694) C:84% T:83%	pCi/L	12/15/23 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.315 ± 0.732 (1.57)	pCi/L	12/21/23 14:35	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch:	632180	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: 50359959001, 50359959002, 50359959003, 50359959004, 50359959005, 50359959006, 50359959007, 50359959008

METHOD BLANK: 3082135 Matrix: Water

Associated Lab Samples: 50359959001, 50359959002, 50359959003, 50359959004, 50359959005, 50359959006, 50359959007, 50359959008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.131 ± 0.228 (0.407) C:NA T:89%	pCi/L	12/13/23 16:03	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch:	631080	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: 50359851001, 50359851002, 50359851003, 50359851004, 50359851005, 50359851006, 50359851007, 50359851008

METHOD BLANK: 3076877 Matrix: Water

Associated Lab Samples: 50359851001, 50359851002, 50359851003, 50359851004, 50359851005, 50359851006, 50359851007, 50359851008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.107 ± 0.256 (0.495) C:NA T:89%	pCi/L	12/12/23 13:09	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch:	632706	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: 50360160005, 50360160006, 50360160007, 50360160008

METHOD BLANK: 3084362 Matrix: Water

Associated Lab Samples: 50360160005, 50360160006, 50360160007, 50360160008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.341 ± 0.323 (0.662) C:86% T:81%	pCi/L	12/12/23 11:47	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch: 634139

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: 50360624001, 50360624002, 50360624003, 50360624004, 50360701001

METHOD BLANK: 3091832

Matrix: Water

Associated Lab Samples: 50360624001, 50360624002, 50360624003, 50360624004, 50360701001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.208 (0.424) C:NA T:90%	pCi/L	12/21/23 12:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch: 631340

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: 50359719001, 50359719002, 50359719003

METHOD BLANK: 3078052

Matrix: Water

Associated Lab Samples: 50359719001, 50359719002, 50359719003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.282 ± 0.299 (0.619) C:81% T:87%	pCi/L	11/28/23 11:36	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch:	633890	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: 50360447001, 50360447002, 50360447003, 50360447004, 50360447005

METHOD BLANK: 3090221 Matrix: Water

Associated Lab Samples: 50360447001, 50360447002, 50360447003, 50360447004, 50360447005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0138 ± 0.265 (0.620) C:78% T:84%	pCi/L	12/15/23 11:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch: 634140

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: 50360624001, 50360624002, 50360624003, 50360624004, 50360701001

METHOD BLANK: 3091835

Matrix: Water

Associated Lab Samples: 50360624001, 50360624002, 50360624003, 50360624004, 50360701001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.532 ± 0.388 (0.756) C:83% T:75%	pCi/L	12/15/23 11:49	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch: 633888

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: 50360447001, 50360447002, 50360447003, 50360447004, 50360447005

METHOD BLANK: 3090216

Matrix: Water

Associated Lab Samples: 50360447001, 50360447002, 50360447003, 50360447004, 50360447005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0899 ± 0.216 (0.540) C:NA T:97%	pCi/L	12/20/23 13:13	

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: Baily Assessment

Pace Project No.: 50359719

QC Batch:	635008	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: 50360530001, 50360530002, 50360530003

METHOD BLANK: 3096615 Matrix: Water

Associated Lab Samples: 50360530001, 50360530002, 50360530003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.154 ± 0.297 (0.655) C:77% T:89%	pCi/L	12/18/23 12:37	

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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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch:	631081	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: 50359851001, 50359851002, 50359851003, 50359851004, 50359851005, 50359851006, 50359851007, 50359851008

METHOD BLANK:	3076878	Matrix:	Water
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Associated Lab Samples: 50359851001, 50359851002, 50359851003, 50359851004, 50359851005, 50359851006, 50359851007, 50359851008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0919 ± 0.296 (0.669) C:83% T:82%	pCi/L	12/07/23 11:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch: 632705

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: 50360160005, 50360160006, 50360160007, 50360160008

METHOD BLANK: 3084360

Matrix: Water

Associated Lab Samples: 50360160005, 50360160006, 50360160007, 50360160008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.377 ± 0.296 (0.347) C:NA T:93%	pCi/L	12/15/23 13:40	

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: Baily Assessment

Pace Project No.: 50359719

QC Batch: 631338

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: 50359719001, 50359719002, 50359719003

METHOD BLANK: 3078050

Matrix: Water

Associated Lab Samples: 50359719001, 50359719002, 50359719003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.204 (0.414) C:NA T:98%	pCi/L	11/29/23 13:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch:	632181	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: 50359959001, 50359959002, 50359959003, 50359959004, 50359959005, 50359959006, 50359959007, 50359959008

METHOD BLANK:	3082136	Matrix:	Water
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Associated Lab Samples: 50359959001, 50359959002, 50359959003, 50359959004, 50359959005, 50359959006, 50359959007, 50359959008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.440 ± 0.341 (0.664) C:80% T:82%	pCi/L	12/07/23 13:33	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Baily Assessment

Pace Project No.: 50359719

QC Batch: 635006

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: 50360530001, 50360530002, 50360530003

METHOD BLANK: 3096614

Matrix: Water

Associated Lab Samples: 50360530001, 50360530002, 50360530003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.424 ± 0.332 (0.390) C:NA T:94%	pCi/L	12/20/23 12:35	

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: Baily Assessment

Pace Project No.: 50359719

QC Batch: 633513

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: 50360284001, 50360284002, 50360284003

METHOD BLANK: 3088468

Matrix: Water

Associated Lab Samples: 50360284001, 50360284002, 50360284003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.219 ± 0.229 (0.323) C:NA T:85%	pCi/L	12/19/23 12:31	

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: Baily Assessment

Pace Project No.: 50359719

QC Batch: 633515

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: 50360284001, 50360284002, 50360284003

METHOD BLANK: 3088473

Matrix: Water

Associated Lab Samples: 50360284001, 50360284002, 50360284003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.517 ± 0.300 (0.541) C:94% T:87%	pCi/L	12/13/23 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: Bailly Assessment

Pace Project No.: 50359719

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50359719

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50359719001	GAMW-01-111423	EPA 903.1	631338		
50359719002	GAMW-01B-111423	EPA 903.1	631338		
50359719003	GAMW-21-111423	EPA 903.1	631338		
50359851001	GAMW-20-111523	EPA 903.1	631080		
50359851002	GAMW-20-111523 MS	EPA 903.1	631080		
50359851003	GAMW-20-111523 MSD	EPA 903.1	631080		
50359851004	GAMW-19-111523	EPA 903.1	631080		
50359851005	GAMW-02-111523	EPA 903.1	631080		
50359851006	GAMW-03-111523	EPA 903.1	631080		
50359851007	GAMW-04-111523	EPA 903.1	631080		
50359851008	FD-01-111523	EPA 903.1	631080		
50359959001	GAMW-08B-111623	EPA 903.1	632180		
50359959002	GAMW-14-111623	EPA 903.1	632180		
50359959003	GAMW-13-111623	EPA 903.1	632180		
50359959004	GAMW-06-111623	EPA 903.1	632180		
50359959005	GAMW-10-111623	EPA 903.1	632180		
50359959006	GAMW-07-111623	EPA 903.1	632180		
50359959007	FB-01-111623	EPA 903.1	632180		
50359959008	FD-02-111623	EPA 903.1	632180		
50360160005	GAMW-22-112023	EPA 903.1	632705		
50360160006	GAMW-22B-112023	EPA 903.1	632705		
50360160007	GAMW-16-112023	EPA 903.1	632705		
50360160008	FB-02-112023	EPA 903.1	632705		
50360284001	GAMW-23-112123	EPA 903.1	633513		
50360284002	GAMW-23B-112123	EPA 903.1	633513		
50360284003	GAMW-18-112123	EPA 903.1	633513		
50360447001	GAMW-11-112723	EPA 903.1	633888		
50360447002	GAMW-11B-112723	EPA 903.1	633888		
50360447003	GAMW-11C-112723	EPA 903.1	633888		
50360447004	GAMW-11C-112723 MS	EPA 903.1	633888		
50360447005	GAMW-11C-112723 MSD	EPA 903.1	633888		
50360530001	GAMW-17-112823	EPA 903.1	635006		
50360530002	GAMW-17B-112823	EPA 903.1	635006		
50360530003	FB-03-112823	EPA 903.1	635006		
50360624001	MW-105-112923	EPA 903.1	634139		
50360624002	MW-112-112923	EPA 903.1	634139		
50360624003	GAMW-12R-112923	EPA 903.1	634139		
50360624004	FD-03-112923	EPA 903.1	634139		
50360701001	GAMW-08-113023	EPA 903.1	634139		
50359719001	GAMW-01-111423	EPA 904.0	631340		
50359719002	GAMW-01B-111423	EPA 904.0	631340		
50359719003	GAMW-21-111423	EPA 904.0	631340		
50359851001	GAMW-20-111523	EPA 904.0	631081		
50359851002	GAMW-20-111523 MS	EPA 904.0	631081		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50359719

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50359851003	GAMW-20-111523 MSD	EPA 904.0	631081		
50359851004	GAMW-19-111523	EPA 904.0	631081		
50359851005	GAMW-02-111523	EPA 904.0	631081		
50359851006	GAMW-03-111523	EPA 904.0	631081		
50359851007	GAMW-04-111523	EPA 904.0	631081		
50359851008	FD-01-111523	EPA 904.0	631081		
50359959001	GAMW-08B-111623	EPA 904.0	632181		
50359959002	GAMW-14-111623	EPA 904.0	632181		
50359959003	GAMW-13-111623	EPA 904.0	632181		
50359959004	GAMW-06-111623	EPA 904.0	632181		
50359959005	GAMW-10-111623	EPA 904.0	632181		
50359959006	GAMW-07-111623	EPA 904.0	632181		
50359959007	FB-01-111623	EPA 904.0	632181		
50359959008	FD-02-111623	EPA 904.0	632181		
50360160005	GAMW-22-112023	EPA 904.0	632706		
50360160006	GAMW-22B-112023	EPA 904.0	632706		
50360160007	GAMW-16-112023	EPA 904.0	632706		
50360160008	FB-02-112023	EPA 904.0	632706		
50360284001	GAMW-23-112123	EPA 904.0	633515		
50360284002	GAMW-23B-112123	EPA 904.0	633515		
50360284003	GAMW-18-112123	EPA 904.0	633515		
50360447001	GAMW-11-112723	EPA 904.0	633890		
50360447002	GAMW-11B-112723	EPA 904.0	633890		
50360447003	GAMW-11C-112723	EPA 904.0	633890		
50360447004	GAMW-11C-112723 MS	EPA 904.0	633890		
50360447005	GAMW-11C-112723 MSD	EPA 904.0	633890		
50360530001	GAMW-17-112823	EPA 904.0	635008		
50360530002	GAMW-17B-112823	EPA 904.0	635008		
50360530003	FB-03-112823	EPA 904.0	635008		
50360624001	MW-105-112923	EPA 904.0	634140		
50360624002	MW-112-112923	EPA 904.0	634140		
50360624003	GAMW-12R-112923	EPA 904.0	634140		
50360624004	FD-03-112923	EPA 904.0	634140		
50360701001	GAMW-08-113023	EPA 904.0	634140		
50359719001	GAMW-01-111423	Total Radium Calculation	632893		
50359719002	GAMW-01B-111423	Total Radium Calculation	632893		
50359719003	GAMW-21-111423	Total Radium Calculation	632893		
50359851001	GAMW-20-111523	Total Radium Calculation	635562		
50359851004	GAMW-19-111523	Total Radium Calculation	635562		
50359851005	GAMW-02-111523	Total Radium Calculation	635562		
50359851006	GAMW-03-111523	Total Radium Calculation	635562		
50359851007	GAMW-04-111523	Total Radium Calculation	635562		
50359851008	FD-01-111523	Total Radium Calculation	635562		
50359959001	GAMW-08B-111623	Total Radium Calculation	636199		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bailly Assessment

Pace Project No.: 50359719

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50359959002	GAMW-14-111623	Total Radium Calculation	636199		
50359959003	GAMW-13-111623	Total Radium Calculation	636199		
50359959004	GAMW-06-111623	Total Radium Calculation	636199		
50359959005	GAMW-10-111623	Total Radium Calculation	636199		
50359959006	GAMW-07-111623	Total Radium Calculation	636199		
50359959007	FB-01-111623	Total Radium Calculation	636199		
50359959008	FD-02-111623	Total Radium Calculation	636199		
50360160005	GAMW-22-112023	Total Radium Calculation	636546		
50360160006	GAMW-22B-112023	Total Radium Calculation	636546		
50360160007	GAMW-16-112023	Total Radium Calculation	636546		
50360160008	FB-02-112023	Total Radium Calculation	636546		
50360284001	GAMW-23-112123	Total Radium Calculation	637206		
50360284002	GAMW-23B-112123	Total Radium Calculation	637206		
50360284003	GAMW-18-112123	Total Radium Calculation	637206		
50360447001	GAMW-11-112723	Total Radium Calculation	637540		
50360447002	GAMW-11B-112723	Total Radium Calculation	637540		
50360447003	GAMW-11C-112723	Total Radium Calculation	637540		
50360530001	GAMW-17-112823	Total Radium Calculation	637530		
50360530002	GAMW-17B-112823	Total Radium Calculation	637530		
50360530003	FB-03-112823	Total Radium Calculation	637530		
50360624001	MW-105-112923	Total Radium Calculation	637830		
50360624002	MW-112-112923	Total Radium Calculation	637830		
50360624003	GAMW-12R-112923	Total Radium Calculation	637830		
50360624004	FD-03-112923	Total Radium Calculation	637830		
50360701001	GAMW-08-113023	Total Radium Calculation	637830		

REPORT OF LABORATORY ANALYSIS

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WO#: 50359719



50359719

Request Document

Important fields must be completed accurately.

Section A

Required Client Information:

Company: NiSource WSP
Address: 670 North Commercial Street
Manchester, NH 03101
Email: Thomas_Haskins@golder.com
Phone: (603)782-2433 Fax
Requested Due Date: 10 day TAT

Section B

Required Project Information:

Report To: Tom Haskins
Copy To: Danielle Sylvia, Gabe Dixon
Purchase Order #: PO42408
Project Name: Baily Assessment
Project #: 31426779 012

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NiSource
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com,
Pace Profile #: 9046-3

Table with columns: Regulatory Agency, State / Location, IN

Main data table with columns: ITEM #, SAMPLE ID, MATRIX CODE, COLLECTED (START/END), PRESERVATIVES, ANALYSES TEST, REQUESTED ANALYSIS FILTERED (Y/N), Residual Chlorine (Y/N)

Summary table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS

Signature and date section with fields: SAMPLER NAME AND SIGNATURE, PRINT Name of SAMPLER, SIGNATURE of SAMPLER, DATE Signed, TEMP in C, Received on ice (Y/N), Custody Sealed (Y/N), Cooler (Y/N), Samples Intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 11/15/23 1105 LR

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): 11/11 [] [] [] []
 (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. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	X		
Short Hold Time Analysis (48 hours or less)? Analysis:		X				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace Wisconsin Sulfide?			X
	X		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	X					X
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:



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NiSource_WSP		Report To: Tom Haskins		Attention: Jeff Loewe U126177	
Address: 670 North Commercial Street		Copy To: Danielle Sylvia, Gabe Dixon		Company Name: NiSource	
Manchester, NH 03101		Purchase Order #: PO42408		Address:	
Email: Thomas.Haskins@golder.com		Project Name: Bailly Assessment		Pace Quote	
Phone: (603)782-2433 Fax:		Project #: 31406779.012		Pace Project Manager: tina.sayer@pacelabs.com,	
Requested Due Date: 10 day TAT		Pace Profile #: 9046-3		Regulatory Agency	
				State / Location	
				IN	

Page : 2 Of 2

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	Preservatives								Y/N	Analyses Test Radium 226+228(sum*)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
				START		END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				
				DATE	TIME	DATE	TIME													
1	GRMNW-20-111523	WTG		11/15/23	1150		2	2										001 002 003		
2	GRMNW-19-111523	WTG		11/15/23	1400		2	2										004		
3	GRMNW-02-111523	WTG		11/15/23	1050		2	2										005		
4	GRMNW-03-111523	WTG		11/15/23	1235		2	2										006		
5	GRMNW-04-111523	WTG		11/15/23	1420		2	2										007		
6	FD-01-111523	WTG		11/15/23	1200		2	2										008		
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	REINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Sub RadChem to Pace® PA	<i>[Signature]</i> / WSP	11/15/23	1730	FedEx			0.3	y	y	y
	FedEx	11/16/23	9:45	<i>[Signature]</i>	11/16/23	0945	0.3			
							0.1			

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: <i>[Signature]</i>						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 11-16-23 11:28

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 0.3/0.3 0.1/0.1 _____
 (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.			
Short Hold Time Analysis (48 hours or less)? Analysis:		<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)	<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>
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"/>

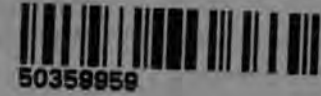
COMMENTS:



CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

WO#: 50359959



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NiSource WSP	Address: 670 North Commercial Street Manchester, NH 03101	Report To: Tom Haskins	Copy To: Danielle Sylvia, Gabe Dixon	Attention: Jeff Loewe U126177	Company Name: NiSource
Email: Thomas_Haskins@golder.com	Phone: (603)782-2433 Fax:	Purchase Order #: PO42408	Project Name: Bailly Assessment	Pace Quote:	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 10 day TAT		Project #: 31406779.012		Pace Profile #: 9046-3	

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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Radium 226+228(sum)*	Residual Chlorine (Y/N)	
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			
						DATE	TIME	DATE	TIME													
1	GAMW-08B-111623	WTG								2	2											001
2	GAMW-14-111623	WTG								2	2											002
3	GAMW-13-111623	WTG								2	2											003
4	GAMW-06-111623	WTG								2	2											004
5	GAMW-10-111623	WTG								2	2											005
6	GAMW-07-111623	WTG								2	2											006
7	FB-01-111623	WTG								2	2											007
8	FD-02-111623	WTG								2	2											008
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Sub RadChem to Pace® PA	[Signature] WSP	11/16/23	1700	Fedex			
	Fedex	11/17/23	0945	[Signature]	11/17/23	0945	7 7 7

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: [Signature]					
SIGNATURE of SAMPLER: [Signature]					

DATE Signed: 11/16/23



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 11/17/23 1132 LR

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 1.4/1.3 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:		<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			
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>
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 CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 11-21-23 1146 CRK

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): 0.8/0.0
 (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:		/	Circle: <u>HNO3 (<2)</u> 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	WGUFU	WGKU	BG1U	R	DG9H	VG9H	VOA VIAL HS >6mm	VG9U	DG9U	VG9T	AMBER GLASS							PLASTIC							OTHER			Matrix	HNO3 <2	H2SO4 <2	NaOH >10	Sodium Hydroxide/ ZnAc NaOH/Zn Ac >9									
											MeOH (only)																														
											SBS																														
											DI																														
1	2	3	4	5	6	7	8	9	10	11	12	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit											
																				2																					
																				2																					
																				2																					
																				2																					

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
BP4L	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



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 11-22-23 10:24

- 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): 0.4/0.4
 (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.

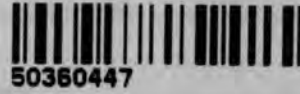
	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED? Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> 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:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
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	<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:



CHAIN-OF-CUSTODY
The Chain-of-Custody is a LE

WO#: 50360447



tely.

Section A

Section B

Section C

Required Client Information:

Required Project Information:

Invoice Info

Company: NiSource WSP	Report To: Tom Haskins	Attention: Jeff Loewe 0120177
Address: 670 North Commercial Street Manchester, NH 03101	Copy To: Danielle Sylvia, Gabe Dixon	Company Name: NiSource
Email: Thomas_Haskins@golder.com	Purchase Order #: PO42408	Address:
Phone: (603)782-2433 Fax:	Project Name: Baily Assessment	Pace Quote:
Requested Due Date: 10 day TAT	Project #: 31406079.012	Pace Project Manager: tina.sayer@pacelabs.com,
		Pace Profile #: 9046-3

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	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Analyses Test Radium 226+228(sum)*	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
					START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other
					DATE	TIME	DATE	TIME														
1	CAMW-11-112723	WT G			11/27/23	1030			2	2									061			
2	CAMW-11B-112723	WT B			11/27/23	1130			2	2									062			
3	CAMW-11C-112723	WT B			11/27/23	1305			2	2									MS02/MSD-02			
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Sub RadChem to Pace® PA	<i>[Signature]</i> / MS02	11/27/23	1000	FedEx	11/27/23	905	1.0	Y	Y	Y
	<i>[Signature]</i> / PACE									

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: <i>[Signature]</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed: 11/27/23					

603
004
085



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TW 11/28/23 950

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
 (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:		/	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 CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 11/29/23 09:28

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): 1.3 / 1.3°C
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags
 None Other Plastic
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:		<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)			<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"/>	<input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:



CHAIN-OF-CUSTODY / An
The Chain-of-Custody is a LEGAL DOCUMENT

WO#: 50360624



50360624

2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177			
Address: 670 North Commercial Street	Copy To: Danielle Sylvia, Gabe Dixon	Company Name: NiSource			
Manchester, NH 03101	Purchase Order #: PO42408	Address:	Regulatory Agency		
Email: Thomas.Haskins@golder.com	Project Name: Bailly Assessment	Pace Quote:	State / Location		
Phone: (603)782-2433 Fax	Project #: <u>31406779.012</u>	Pace Project Manager: tina.sayer@pacelabs.com,	IN		
Requested Due Date: 10 day TAT		Pace Profile #: 9046-3			

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 Radium 226+228(sum)	Residual Chlorine (Y/N)
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		
				DATE	TIME	DATE	TIME												
1	MW-105-112923	WW	G			11/29/23	1030	2		2									001
2	MW-112-112923	WW	G			11/29/23	1150	2		2									002
3	GAMW-12R-112923	WW	G			11/29/23	1300	2		2									003
4	FD-03-112923	WW	G			11/29/23	1200	2		2									004
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Sub RadChem to Pace® PA	<i>[Signature]</i> / NiSource FedEx	11/29/23	1600	FedEx yves / SLITS / PACE	11-30-23	0910	0.2	Y	Y	Y

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: <i>[Signature]</i>						
SIGNATURE of SAMPLER: <i>[Signature]</i>						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 11-30-2023 0947

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): 0.2/0.2
 (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)		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:		X	Circle: HNO3 (<2) H2SO4 (<2) 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:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Custody Signatures Present?	X		Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Containers Intact?:	X		Headspace Wisconsin Sulfide?			X
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)		X	Trip Blank Present?		X	
			Trip Blank Custody Seals?:			X

COMMENTS:



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

50360701

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page : <u>2</u> Of <u>2</u>
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Company: NiSource WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	
Address: 670 North Commercial Street Manchester, NH 03101	Copy To: Danielle Sylvia, Gabe Dixon	Company Name: NiSource	
Email: Thomas_Haskins@golder.com	Purchase Order #: PO42408	Address:	Regulatory Agency
Phone: (603)782-2433 Fax	Project Name: Baily Assessment	Pace Quote:	
Requested Due Date: 10 day TAT	Project #: <u>31406779.012</u>	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
		Pace Profile #: 9046-3	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 DL Wipe WP Air AR Other OT Tissue TS	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives								Analyses Test Radium 226+228(sum*)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
						START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
DATE	TIME	DATE	TIME																		
1	<u>BAAMU-OB-113023</u>				<u>WTG</u>			<u>11/30/23</u>	<u>1005</u>	<u>2</u>	<u>2</u>								<input checked="" type="checkbox"/>	001 MCS 12/1/23	
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		
Sub RadChem to Pace® PA	<u>[Signature]</u> / <u>WSB</u>	<u>11/30/23</u>	<u>1200</u>	<u>FedEx</u>					
	<u>FedEx</u>	<u>12-1-23</u>	<u>9:35</u>	<u>[Signature]</u>	<u>12-1-23</u>	<u>9:35</u>	<u>0.1</u>	<u>y</u>	<u>y</u>

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: <u>[Signature]</u>					
SIGNATURE of SAMPLER: <u>[Signature]</u>	DATE Signed: <u>11/30/23</u>				



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 12-1-23 10:21

- 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): 0.2/0.1
(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.			
Short Hold Time Analysis (48 hours or less)? Analysis:		<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)	<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> <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)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

APPENDIX C

**2023 Data Usability Summary
Report**

Data Usability Summary Report 2023 Groundwater Samples

This Data Usability Summary Report (DUSR) presents the findings of the data quality assessment performed on the analyses of groundwater samples collected for two (2) semi-annual sampling events, conducted between May 17th and June 2nd, 2023 and between November 14th and 30th, 2023 at the Bailly Generating Station. Samples reported in laboratory sample delivery groups (SDGs) listed in Table 1 were reviewed as part of this DUSR.

The samples were submitted Pace Analytical Laboratories located in Indianapolis, IN and Greensburg, PA to perform requested analyses. Information regarding the sample point identifications, analytical parameters, quality control (QC) samples, sampling dates, and laboratory SDG designations are summarized in Table 1.

Groundwater samples were analyzed following methods:

- Target Compound List (TCL) Total Metals following USEPA SW-846 Method 6020A, Inductively Coupled Plasma-Mass Spectrometry, February 2007 and USEPA SW-846 Method 6010C Inductively Coupled Plasma- Atomic Emission Spectrometry Revision 3 (November 2000);
- Mercury following USEPA SW846 7470A Mercury in Liquid Wastes (Manual Cold- Vapor Technique) Revision 1 (September 1994);
- Anions (chloride, fluoride, and sulfate) following USEPA SW846 9056A Determination of Inorganic Anions by Ion Chromatography Revision 1 (February 2007);
- Total Dissolved Solids (TDS) following SM 2540C Total Dissolved Solids Dried at 180 °C, Standard Methods 20th Edition (1998);
- pH by SM 4500-H+B pH in Water by Potentiometry; and,
- Radium-226 and Radium-228 following USEPA SW846 Method 903.1 Radium-226 in Drinking Water Radon Emanation Technique (January 1980) and USEPA SW846 Method 904.0 Radium-228 in Drinking Water (January 1980), respectively.

A total of 58 groundwater samples, as well as 6 field blanks, 6 field duplicates, and 4 matrix spikes/matrix spike duplicates (MS/MSDs) were collected and analyzed during the two semi-annual events.

The data quality assessment of inorganic results was performed in accordance with the Quality Assurance Project Plan (QAPP) and EPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017) (Inorganic Guidelines) and the Evaluation of Radiochemistry Data Usability- Department of Energy (DOE, 1997) (Guidelines), where applicable to the methods listed above. If there was a conflict between the Guidelines and the analytical methodology, method specific criteria and professional judgment were used.

In general, chemical results for the samples collected at the Site were qualified based on outlying accuracy, precision, and analytical holding time exceedances. The following definitions provide brief explanations of the qualifiers which may have been assigned to data during the data validation process.

- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample and may be considered biased high.
- J- The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample and may be considered biased low.

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit.
- UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

In general, the data generated as part of the groundwater sampling event met the QC criteria established in the respective methods and the Inorganic Guidelines. Table 2 summarizes all qualifications applied to the data, with applicable qualifier codes. Certain samples may have been qualified for multiple data quality assessment (DQA) findings, as shown in Table 2. The following bulleted items highlight qualifications to specific parameters and/or samples:

- Laboratory analyzed pH samples were analyzed outside of method holding time. All laboratory measured pH values were qualified as estimated (J). Field measured pH values were used in all data evaluations.
- The arsenic result for sample GAMW-22B-112023 was qualified as non-detect (U) at the reporting limit due to field blank contamination.
- The barium results for samples GAMW-06-051823, GAMW-07-051823, GAMW-08-051823, GAMW-23-060223, GAMW-22-112023, and GAMW-16-112023 were qualified as estimated and potentially biased high (J+) due to field blank contamination.
- The cadmium results for samples MW-105-052423, MW-112-052423, GAMW-17-052423, and GAMW-17B-052423 were qualified as non-detect (U) at the reporting limit due to field blank contamination.
- The chloride results for samples GAMW-11B-052223 and FD-01-052223 were qualified as estimated (J) due to a field duplicate relative percent difference outside of quality control limits.
- The chromium results for samples MW-105-052423, MW-112-052423, GAMW-17-052423, GAMW-17B-052423, GAMW-23B-060223, GAMW-08B-111623, GAMW-14-111623, GAMW-13-111623, GAMW-06-111623, GAMW-10-111623, GAMW-07-111623, FD-02-111623, GAMW-16-112023, GAMW-17-112823, and GAMW-17B-112823 were qualified as non-detect (U) at the reporting limit due to field blank contamination.
- The lead results for samples MW-105-052423, GAMW-17-052423, GAMW-17B-052423, GAMW-23-060223, GAMW-23B-060223, GAMW-08B-111623, GAMW-22-112023, GAMW-22B-112023, GAMW-16-112023, GAMW-17-112823, and GAMW-17B-112823 were qualified as non-detect (U) at the reporting limit due to field blank contamination.
- The sulfate results for samples GAMW-11B-052223 and FD-01-052223 were qualified as estimated (J) due to field blank contamination.
- The radium-228 results for samples GAMW-12R-112923 and FD-03-112923 were qualified as estimated (J) due to a field duplicate relative percent difference above quality control limits.
- The radium-228 and associated total radium results for samples GAMW-11-112723 and GAMW-11C-112723 were qualified as estimated and non-detect (UJ) due to MS/MSD percent recoveries below quality control limits.
- The radium-228 result for sample GAMW-11B-112723 was qualified as estimated and potentially biased low (J-), and the associated total radium result was qualified as estimated and non-detect (UJ) due to MS/MSD percent recoveries below quality control limits.

- The radium-228 and associated total radium results for samples GAMW-21-060123, GAMW-22-060123, GAMW-23-060223 were qualified as estimated and non-detect (UJ) due to an MSD percent recovery below quality control limits.
- The radium-228 results for samples GAMW-22B-060123 and GAMW-23B-060223 were qualified as estimated and potentially biased low (J-), and the associated total radium results were qualified as estimated and non-detect (UJ) due to an MSD percent recovery below quality control limits.

Dilutions do not require qualifications based on the Guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of statewide characterization.

Based on the data validations and data quality assessment, 100% of the analytical data for samples collected at the Site were determined to be acceptable (including estimated data) for their intended use.

TABLE 1

**Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - Bailly Generating Station**

<i>SDG</i>	<i>Field Identification</i>	<i>Collection Date</i>	<i>Location</i>	<i>Matrix</i>	<i>QC Samples</i>	<i>Anions by EPA 9056</i>	<i>Total Metals by EPA 6010/6020</i>	<i>Mercury by EPA 7470</i>	<i>Total Dissolved Solids by SW 2540C</i>	<i>pH by 4500-H+B</i>	<i>Radium-226</i>	<i>Radium-228</i>	<i>Total Radium</i>
50345179	GAMW-01-051723	5/17/2023	GAMW-01	GW	-	X	X	X	X	X			
50345179	GAMW-01B-051723	5/17/2023	GAMW-01B	GW	-	X	X	X	X	X			
50345179	GAMW-02-051723	5/17/2023	GAMW-02	GW	-	X	X	X	X	X			
50345179	GAMW-03-051723	5/17/2023	GAMW-03	GW	-	X	X	X	X	X			
50345179	GAMW-04-051723	5/17/2023	GAMW-04	GW	-	X	X	X	X	X			
50345179	GAMW-06-051823	5/18/2023	GAMW-06	GW	-	X	X	X	X	X			
50345179	GAMW-07-051823	5/18/2023	GAMW-07	GW	-	X	X	X	X	X			
50345179	GAMW-08-051823	5/18/2023	GAMW-08	GW	-	X	X	X	X	X			
50345179	FB-01-051823	5/18/2023	GAMW-08	WQ	FB	X	X	X	X	X			
50345179	GAMW-08B-051923	5/19/2023	GAMW-08B	GW	-	X	X	X	X	X			
50345179	GAMW-10-051923	5/19/2023	GAMW-10	GW	MS/MSD	X	X	X	X	X			
50345179	GAMW-11-052223	5/22/2023	GAMW-11	GW	-	X	X	X	X	X			
50345179	GAMW-11B-052223	5/22/2023	GAMW-11B	GW	-	X	X	X	X	X			
50345179	GAMW-11C-052223	5/22/2023	GAMW-11C	GW	-	X	X	X	X	X			
50345179	FD-01-052223	5/22/2023	GAMW-11B	GW	FD	X	X	X	X	X			
50345179	GAMW-12R-052323	5/23/2023	GAMW-12R	GW	-	X	X	X	X	X			
50345179	GAMW-13-052323	5/23/2023	GAMW-13	GW	-	X	X	X	X	X			
50345179	GAMW-14-052323	5/23/2023	GAMW-14	GW	-	X	X	X	X	X			
50345179	GAMW-16-052323	5/23/2023	GAMW-16	GW	-	X	X	X	X	X			
50345179	FD-02	5/23/2023	GAMW-12R	GW	FD	X	X	X	X	X			
50345179	MW-105-052423	5/24/2023	MW-105	GW	-	X	X	X	X	X			
50345179	MW-112-052423	5/24/2023	MW-112	GW	-	X	X	X	X	X			
50345179	GAMW-17-052423	5/24/2023	GAMW-17	GW	-	X	X	X	X	X			
50345179	GAMW-17B-052423	5/24/2023	GAMW-17B	GW	-	X	X	X	X	X			
50345179	FB-02-052423	5/24/2023	GAMW-17B	WQ	FB	X	X	X	X	X			
50345179	GAMW-18-052523	5/25/2023	GAMW-18	GW	-	X	X	X	X	X			
50345179	GAMW-19-053123	5/31/2023	GAMW-19	GW	-	X	X	X	X	X			
50345179	GAMW-20-053123	5/31/2023	GAMW-20	GW	-	X	X	X	X	X			
50345179	FD-05-053123	5/31/2023	GAMW-20	GW	FD	X	X	X	X	X			
50345179	GAMW-21-060123	6/1/2023	GAMW-21	GW	-	X	X	X	X	X			
50345179	GAMW-22-060123	6/1/2023	GAMW-22	GW	-	X	X	X	X	X			
50345179	GAMW-22B-060123	6/1/2023	GAMW-22B	GW	MS/MSD	X	X	X	X	X			
50345179	GAMW-23-060223	6/2/2023	GAMW-23	GW	-	X	X	X	X	X			
50345179	GAMW-23B-060223	6/2/2023	GAMW-23B	GW	-	X	X	X	X	X			
50345179	FB-05-060223	6/2/2023	GAMW-23B	WQ	FB	X	X	X	X	X			

TABLE 1

**Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - Bailly Generating Station**

<i>SDG</i>	<i>Field Identification</i>	<i>Collection Date</i>	<i>Location</i>	<i>Matrix</i>	<i>QC Samples</i>	<i>Anions by EPA 9056</i>	<i>Total Metals by EPA 6010/6020</i>	<i>Mercury by EPA 7470</i>	<i>Total Dissolved Solids by SW 2540C</i>	<i>pH by 4500-H+B</i>	<i>Radium-226</i>	<i>Radium-228</i>	<i>Total Radium</i>
50345176	GAMW-01-051723	5/17/2023	GAMW-01	GW	-						X	X	X
50345176	GAMW-01B-051723	5/17/2023	GAMW-01B	GW	-						X	X	X
50345176	GAMW-02-051723	5/17/2023	GAMW-02	GW	-						X	X	X
50345176	GAMW-03-051723	5/17/2023	GAMW-03	GW	-						X	X	X
50345176	GAMW-04-051723	5/17/2023	GAMW-04	GW	-						X	X	X
50345176	GAMW-06-051823	5/18/2023	GAMW-06	GW	-						X	X	X
50345176	GAMW-07-051823	5/18/2023	GAMW-07	GW	-						X	X	X
50345176	GAMW-08-051823	5/18/2023	GAMW-08	GW	-						X	X	X
50345176	FB-01-051823	5/18/2023	GAMW-08	WQ	FB						X	X	X
50345176	GAMW-08B-051923	5/19/2023	GAMW-08B	GW	-						X	X	X
50345176	GAMW-10-051923	5/19/2023	GAMW-10	GW	-						X	X	X
50345176	GAMW-10-051923 MS	5/19/2023	GAMW-10	GW	MS						X	X	X
50345176	GAMW-10-051923 MSD	5/19/2023	GAMW-10	GW	MSD						X	X	X
50345176	GAMW-11-052223	5/22/2023	GAMW-11	GW	-						X	X	X
50345176	GAMW-11B-052223	5/22/2023	GAMW-11B	GW	-						X	X	X
50345176	GAMW-11C-052223	5/22/2023	GAMW-11C	GW	-						X	X	X
50345176	FD-01-052223	5/22/2023	GAMW-11B	GW	FD						X	X	X
50345176	GAMW-12R-052323	5/23/2023	GAMW-12R	GW	-						X	X	X
50345176	GAMW-13-052323	5/23/2023	GAMW-13	GW	-						X	X	X
50345176	GAMW-14-052323	5/23/2023	GAMW-14	GW	-						X	X	X
50345176	GAMW-16-052323	5/23/2023	GAMW-16	GW	-						X	X	X
50345176	FD-02	5/23/2023	GAMW-12R	GW	FD						X	X	X
50345176	MW-105-052423	5/24/2023	MW-105	GW	-						X	X	X
50345176	MW-112-052423	5/24/2023	MW-112	GW	-						X	X	X
50345176	GAMW-17-052423	5/24/2023	GAMW-17	GW	-						X	X	X
50345176	GAMW-17B-052423	5/24/2023	GAMW-17B	GW	-						X	X	X
50345176	FB-02-052423	5/24/2023	GAMW-17B	WQ	FB						X	X	X
50345176	GAMW-18-052523	5/25/2023	GAMW-18	GW	-						X	X	X
50345176	GAMW-19-053123	5/31/2023	GAMW-19	GW	-						X	X	X
50345176	GAMW-20-053123	5/31/2023	GAMW-20	GW	-						X	X	X
50345176	FD-05-053123	5/31/2023	GAMW-20	GW	FD						X	X	X
50345176	GAMW-21-060123	6/1/2023	GAMW-21	GW	-						X	X	X
50345176	GAMW-22-060123	6/1/2023	GAMW-22	GW	-						X	X	X
50345176	GAMW-22B-060123	6/1/2023	GAMW-22B	GW	-						X	X	X
50345176	GAMW-22B-060123 MS	6/1/2023	GAMW-22B	GW	MS						X	X	X
50345176	GAMW-22B-060123 MSD	6/1/2023	GAMW-22B	GW	MSD						X	X	X
50345176	GAMW-23-060223	6/2/2023	GAMW-23	GW	-						X	X	X
50345176	GAMW-23B-060223	6/2/2023	GAMW-23B	GW	-						X	X	X
50345176	FB-05-060223	6/2/2023	GAMW-23B	WQ	FB						X	X	X

TABLE 1

**Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - Bailly Generating Station**

<i>SDG</i>	<i>Field Identification</i>	<i>Collection Date</i>	<i>Location</i>	<i>Matrix</i>	<i>QC Samples</i>	<i>Anions by EPA 9056</i>	<i>Total Metals by EPA 6010/6020</i>	<i>Mercury by EPA 7470</i>	<i>Total Dissolved Solids by SW 2540C</i>	<i>pH by 4500-H+B</i>	<i>Radium-226</i>	<i>Radium-228</i>	<i>Total Radium</i>
50359718	GAMW-01-111423	11/14/2023	GAMW-01	GW	-	X	X	X	X	X			
50359718	GAMW-01B-111423	11/14/2023	GAMW-01B	GW	-	X	X	X	X	X			
50359718	GAMW-21-111423	11/14/2023	GAMW-21	GW	-	X	X	X	X	X			
50359718	GAMW-20-111523	11/15/2023	GAMW-20	GW	MS/MSD	X	X	X	X	X			
50359718	GAMW-19-111523	11/15/2023	GAMW-19	GW	-	X	X	X	X	X			
50359718	GAMW-02-111523	11/15/2023	GAMW-02	GW	-	X	X	X	X	X			
50359718	GAMW-03-111523	11/15/2023	GAMW-03	GW	-	X	X	X	X	X			
50359718	GAMW-04-111523	11/15/2023	GAMW-04	GW	-	X	X	X	X	X			
50359718	FD-01-111523	11/15/2023	GAMW-19	GW	FD	X	X	X	X	X			
50359718	GAMW-08B-111623	11/16/2023	GAMW-08B	GW	-	X	X	X	X	X			
50359718	GAMW-14-111623	11/16/2023	GAMW-14	GW	-	X	X	X	X	X			
50359718	GAMW-13-111623	11/16/2023	GAMW-13	GW	-	X	X	X	X	X			
50359718	GAMW-06-111623	11/16/2023	GAMW-06	GW	-	X	X	X	X	X			
50359718	GAMW-10-111623	11/16/2023	GAMW-10	GW	-	X	X	X	X	X			
50359718	GAMW-07-111623	11/16/2023	GAMW-07	GW	-	X	X	X	X	X			
50359718	FB-01-111623	11/16/2023	GAMW-14	WQ	FB	X	X	X	X	X			
50359718	FD-02-111623	11/16/2023	GAMW-10	GW	FD	X	X	X	X	X			
50359718	GAMW-22-112023	11/20/2023	GAMW-22	GW	-	X	X	X	X	X			
50359718	GAMW-22B-112023	11/20/2023	GAMW-22B	GW	-	X	X	X	X	X			
50359718	GAMW-16-112023	11/20/2023	GAMW-16	GW	-	X	X	X	X	X			
50359718	FB-02-112023	11/20/2023	GAMW-16	WQ	FB	X	X	X	X	X			
50359718	GAMW-23-112123	11/21/2023	GAMW-23	GW	-	X	X	X	X	X			
50359718	GAMW-23B-112123	11/21/2023	GAMW-23B	GW	-	X	X	X	X	X			
50359718	GAMW-18-112123	11/21/2023	GAMW-18	GW	-	X	X	X	X	X			
50359718	GAMW-11-112723	11/27/2023	GAMW-11	GW	-	X	X	X	X	X			
50359718	GAMW-11B-112723	11/27/2023	GAMW-11B	GW	-	X	X	X	X	X			
50359718	GAMW-11C-112723	11/27/2023	GAMW-11C	GW	MS/MSD	X	X	X	X	X			
50359718	GAMW-17-112823	11/28/2023	GAMW-17	GW	-	X	X	X	X	X			
50359718	GAMW-17B-112823	11/28/2023	GAMW-17B	GW	-	X	X	X	X	X			
50359718	FB-03-112823	11/28/2023	GAMW-17	WQ	FB	X	X	X	X	X			
50359718	MW-105-112923	11/29/2023	MW-105	GW	-	X	X	X	X	X			
50359718	MW-112-112923	11/29/2023	MW-112	GW	-	X	X	X	X	X			
50359718	GAMW-12R-112923	11/29/2023	GAMW-12R	GW	-	X	X	X	X	X			
50359718	FD-03-112923	11/29/2023	GAMW-12R	GW	FD	X	X	X	X	X			
50359718	GAMW-08-113023	11/30/2023	GAMW-08	GW	-	X	X	X	X	X			

TABLE 1

Sample Collection and Analysis Summary
 NIPSCO LLC CCR Groundwater Monitoring - Bailly Generating Station

SDG	Field Identification	Collection Date	Location	Matrix	QC Samples	Anions by EPA 9056	Total Metals by EPA 6010/6020	Mercury by EPA 7470	Total Dissolved Solids by SW 2540C	pH by 4500-H+B	Radium-226	Radium-228	Total Radium
50359719	GAMW-01-111423	11/14/2023	GAMW-01	GW	-						X	X	X
50359719	GAMW-01B-111423	11/14/2023	GAMW-01B	GW	-						X	X	X
50359719	GAMW-21-111423	11/14/2023	GAMW-21	GW	-						X	X	X
50359719	GAMW-20-111523	11/15/2023	GAMW-20	GW	-						X	X	X
50359719	GAMW-20-111523 MS	11/15/2023	GAMW-20	WQ	MS						X	X	X
50359719	GAMW-20-111523 MSD	11/15/2023	GAMW-20	WQ	MSD						X	X	X
50359719	GAMW-19-111523	11/15/2023	GAMW-19	GW	-						X	X	X
50359719	GAMW-02-111523	11/15/2023	GAMW-02	GW	-						X	X	X
50359719	GAMW-03-111523	11/15/2023	GAMW-03	GW	-						X	X	X
50359719	GAMW-04-111523	11/15/2023	GAMW-04	GW	-						X	X	X
50359719	FD-01-111523	11/15/2023	GAMW-19	GW	FD						X	X	X
50359719	GAMW-23-112123	11/21/2023	GAMW-23	GW	-						X	X	X
50359719	GAMW-23B-112123	11/21/2023	GAMW-23B	GW	-						X	X	X
50359719	GAMW-18-112123	11/21/2023	GAMW-18	GW	-						X	X	X
50359719	GAMW-08B-111623	11/16/2023	GAMW-08B	GW	-						X	X	X
50359719	GAMW-14-111623	11/16/2023	GAMW-14	GW	-						X	X	X
50359719	GAMW-13-111623	11/16/2023	GAMW-13	GW	-						X	X	X
50359719	GAMW-06-111623	11/16/2023	GAMW-06	GW	-						X	X	X
50359719	GAMW-10-111623	11/16/2023	GAMW-10	GW	-						X	X	X
50359719	GAMW-07-111623	11/16/2023	GAMW-07	GW	-						X	X	X
50359719	FB-01-111623	11/16/2023	GAMW-14	WQ	FB						X	X	X
50359719	FD-02-111623	11/16/2023	GAMW-10	GW	FD						X	X	X
50359719	GAMW-22-112023	11/20/2023	GAMW-22	GW	-						X	X	X
50359719	GAMW-22B-112023	11/20/2023	GAMW-22B	GW	-						X	X	X
50359719	GAMW-16-112023	11/20/2023	GAMW-16	GW	-						X	X	X
50359719	FB-02-112023	11/20/2023	GAMW-16	WQ	FB						X	X	X
50359719	GAMW-11-112723	11/27/2023	GAMW-11	GW	-						X	X	X
50359719	GAMW-11B-112723	11/27/2023	GAMW-11B	GW	-						X	X	X
50359719	GAMW-11C-112723	11/27/2023	GAMW-11C	GW	-						X	X	X

TABLE 1

**Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - Bailly Generating Station**

<i>SDG</i>	<i>Field Identification</i>	<i>Collection Date</i>	<i>Location</i>	<i>Matrix</i>	<i>QC Samples</i>	<i>Anions by EPA 9056</i>	<i>Total Metals by EPA 6010/6020</i>	<i>Mercury by EPA 7470</i>	<i>Total Dissolved Solids by SW 2540C</i>	<i>pH by 4500-H+B</i>	<i>Radium-226</i>	<i>Radium-228</i>	<i>Total Radium</i>
50359719	GAMW-11C-112723 MS	11/27/2023	GAMW-11C	WQ	MS						X	X	X
50359719	GAMW-11C-112723 MSD	11/27/2023	GAMW-11C	WQ	MSD						X	X	X
50359719	GAMW-17-112823	11/28/2023	GAMW-17	GW	-						X	X	X
50359719	GAMW-17B-112823	11/28/2023	GAMW-17B	GW	-						X	X	X
50359719	FB-03-112823	11/28/2023	GAMW-17	WQ	FB						X	X	X
50359719	MW-105-112923	11/29/2023	MW-105	GW	-						X	X	X
50359719	MW-112-112923	11/29/2023	MW-112	GW	-						X	X	X
50359719	GAMW-12R-112923	11/29/2023	GAMW-12R	GW	-						X	X	X
50359719	FD-03-112923	11/29/2023	GAMW-12R	GW	FD						X	X	X
50359719	GAMW-08-113023	11/30/2023	GAMW-08	GW	-						X	X	X

Notes:

All analyses performed by PACE at the Indianapolis, IN and Greensburg, PA laboratories.

Abbreviations:

WQ: Water Quality GW: Ground Water
 FB: Field Blank QC: Quality Control
 FD: Field Duplicate SDG: Sample Delivery Group
 MS/MSD: Matrix Spike/Matrix Spike Duplicate

TABLE 2

Qualifier Summary Table
NIPSCO CCR Groundwater Monitoring - Bailly Generating Station

<i>Laboratory SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
50345179	GAMW-01-051723	pH	-	-	J	Method holding time exceedance
50345179	GAMW-01B-051723	pH	-	-	J	Method holding time exceedance
50345179	GAMW-02-051723	pH	-	-	J	Method holding time exceedance
50345179	GAMW-03-051723	pH	-	-	J	Method holding time exceedance
50345179	GAMW-04-051723	pH	-	-	J	Method holding time exceedance
50345179	GAMW-06-051823	pH	-	-	J	Method holding time exceedance
50345179	GAMW-07-051823	pH	-	-	J	Method holding time exceedance
50345179	GAMW-08-051823	pH	-	-	J	Method holding time exceedance
50345179	GAMW-08B-051923	pH	-	-	J	Method holding time exceedance
50345179	GAMW-10-051923	pH	-	-	J	Method holding time exceedance
50345179	FD-01-052223	pH	-	-	J	Method holding time exceedance
50345179	GAMW-11-052223	pH	-	-	J	Method holding time exceedance
50345179	GAMW-11B-052223	pH	-	-	J	Method holding time exceedance
50345179	GAMW-11C-052223	pH	-	-	J	Method holding time exceedance
50345179	FD-02	pH	-	-	J	Method holding time exceedance
50345179	GAMW-12R-052323	pH	-	-	J	Method holding time exceedance
50345179	GAMW-13-052323	pH	-	-	J	Method holding time exceedance
50345179	GAMW-14-052323	pH	-	-	J	Method holding time exceedance
50345179	GAMW-16-052323	pH	-	-	J	Method holding time exceedance
50345179	GAMW-17-052423	pH	-	-	J	Method holding time exceedance
50345179	GAMW-17B-052423	pH	-	-	J	Method holding time exceedance
50345179	MW-105-052423	pH	-	-	J	Method holding time exceedance
50345179	MW-112-052423	pH	-	-	J	Method holding time exceedance
50345179	GAMW-18-052523	pH	-	-	J	Method holding time exceedance
50345179	FD-05-053123	pH	-	-	J	Method holding time exceedance
50345179	GAMW-19-053123	pH	-	-	J	Method holding time exceedance
50345179	GAMW-20-053123	pH	-	-	J	Method holding time exceedance
50345179	GAMW-21-060123	pH	-	-	J	Method holding time exceedance
50345179	GAMW-22-060123	pH	-	-	J	Method holding time exceedance
50345179	GAMW-22B-060123	pH	-	-	J	Method holding time exceedance

TABLE 2

**Qualifier Summary Table
NIPSCO CCR Groundwater Monitoring - Bailly Generating Station**

<i>Laboratory SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
50345179	GAMW-23-060223	pH	-	-	J	Method holding time exceedance
50345179	GAMW-23B-060223	pH	-	-	J	Method holding time exceedance
50345179	GAMW-06-051823	Barium	-	-	J+	Field blank contamination
50345179	GAMW-07-051823	Barium	-	-	J+	Field blank contamination
50345179	GAMW-08-051823	Barium	-	-	J+	Field blank contamination
50345179	MW-105-052423	Cadmium	0.0002	-	U	Field blank contamination
50345179	MW-112-052423	Cadmium	0.0002	-	U	Field blank contamination
50345179	GAMW-17-052423	Cadmium	0.0002	-	U	Field blank contamination
50345179	GAMW-17B-052423	Cadmium	0.0002	-	U	Field blank contamination
50345179	MW-105-052423	Chromium	0.002	-	U	Field blank contamination
50345179	MW-112-052423	Chromium	0.002	-	U	Field blank contamination
50345179	GAMW-17-052423	Chromium	0.002	-	U	Field blank contamination
50345179	GAMW-17B-052423	Chromium	0.002	-	U	Field blank contamination
50345179	MW-105-052423	Lead	0.001	-	U	Field blank contamination
50345179	GAMW-17-052423	Lead	0.001	-	U	Field blank contamination
50345179	GAMW-17B-052423	Lead	0.001	-	U	Field blank contamination
50345179	GAMW-23-060223	Barium	-	-	J+	Field blank contamination
50345179	GAMW-23B-060223	Chromium	0.002	-	U	Field blank contamination
50345179	GAMW-23-060223	Lead	0.001	-	U	Field blank contamination
50345179	GAMW-23B-060223	Lead	0.001	-	U	Field blank contamination
50345179	GAMW-11B-052223	Chloride	-	-	J	Field duplicate RPD outside quality control limits
50345179	FD-01-052223	Chloride	-	-	J	Field duplicate RPD outside quality control limits
50345179	GAMW-11B-052223	Sulfate	-	-	J	Field duplicate RPD outside quality control limits
50345179	FD-01-052223	Sulfate	-	-	J	Field duplicate RPD outside quality control limits
50345176	GAMW-21-060123	Radium-228	-	-	UJ	MSD % recovery below quality control limits
50345176	GAMW-22-060123	Radium-228	-	-	UJ	MSD % recovery below quality control limits
50345176	GAMW-22B-060123	Radium-228	-	-	J-	MSD % recovery below quality control limits
50345176	GAMW-23-060223	Radium-228	-	-	UJ	MSD % recovery below quality control limits
50345176	GAMW-23B-060223	Radium-228	-	-	J-	MSD % recovery below quality control limits
50345176	GAMW-21-060123	Total Radium	-	-	UJ	MSD % recovery below quality control limits

TABLE 2

Qualifier Summary Table
NIPSCO CCR Groundwater Monitoring - Bailly Generating Station

<i>Laboratory SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
50345176	GAMW-22-060123	Total Radium	-	-	UJ	MSD % recovery below quality control limits
50345176	GAMW-22B-060123	Total Radium	-	-	UJ	MSD % recovery below quality control limits
50345176	GAMW-23-060223	Total Radium	-	-	UJ	MSD % recovery below quality control limits
50345176	GAMW-23B-060223	Total Radium	-	-	UJ	MSD % recovery below quality control limits
50359718	GAMW-01-111423	pH	-	-	J	Method holding time exceedance
50359718	GAMW-01B-111423	pH	-	-	J	Method holding time exceedance
50359718	GAMW-21-111423	pH	-	-	J	Method holding time exceedance
50359718	GAMW-20-111523	pH	-	-	J	Method holding time exceedance
50359718	GAMW-19-111523	pH	-	-	J	Method holding time exceedance
50359718	GAMW-02-111523	pH	-	-	J	Method holding time exceedance
50359718	GAMW-03-111523	pH	-	-	J	Method holding time exceedance
50359718	GAMW-04-111523	pH	-	-	J	Method holding time exceedance
50359718	FD-01-111523	pH	-	-	J	Method holding time exceedance
50359718	GAMW-08B-111623	pH	-	-	J	Method holding time exceedance
50359718	GAMW-14-111623	pH	-	-	J	Method holding time exceedance
50359718	GAMW-13-111623	pH	-	-	J	Method holding time exceedance
50359718	GAMW-06-111623	pH	-	-	J	Method holding time exceedance
50359718	GAMW-10-111623	pH	-	-	J	Method holding time exceedance
50359718	GAMW-07-111623	pH	-	-	J	Method holding time exceedance
50359718	FD-02-111623	pH	-	-	J	Method holding time exceedance
50359718	GAMW-22-112023	pH	-	-	J	Method holding time exceedance
50359718	GAMW-22B-112023	pH	-	-	J	Method holding time exceedance
50359718	GAMW-16-112023	pH	-	-	J	Method holding time exceedance
50359718	GAMW-23-112123	pH	-	-	J	Method holding time exceedance
50359718	GAMW-23B-112123	pH	-	-	J	Method holding time exceedance
50359718	GAMW-18-112123	pH	-	-	J	Method holding time exceedance
50359718	GAMW-11-112723	pH	-	-	J	Method holding time exceedance
50359718	GAMW-11B-112723	pH	-	-	J	Method holding time exceedance
50359718	GAMW-11C-112723	pH	-	-	J	Method holding time exceedance
50359718	GAMW-17-112823	pH	-	-	J	Method holding time exceedance

TABLE 2

Qualifier Summary Table
NIPSCO CCR Groundwater Monitoring - Bailly Generating Station

<i>Laboratory SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
50359718	GAMW-17B-112823	pH	-	-	J	Method holding time exceedance
50359718	MW-105-112923	pH	-	-	J	Method holding time exceedance
50359718	MW-112-112923	pH	-	-	J	Method holding time exceedance
50359718	GAMW-12R-112923	pH	-	-	J	Method holding time exceedance
50359718	FD-03-112923	pH	-	-	J	Method holding time exceedance
50359718	GAMW-08-113023	pH	-	-	J	Method holding time exceedance
50359718	GAMW-08B-111623	Chromium	0.002	-	U	Field blank contamination
50359718	GAMW-14-111623	Chromium	0.002	-	U	Field blank contamination
50359718	GAMW-13-111623	Chromium	0.002	-	U	Field blank contamination
50359718	GAMW-06-111623	Chromium	0.002	-	U	Field blank contamination
50359718	GAMW-10-111623	Chromium	0.002	-	U	Field blank contamination
50359718	GAMW-07-111623	Chromium	0.002	-	U	Field blank contamination
50359718	FD-02-111623	Chromium	0.002	-	U	Field blank contamination
50359718	GAMW-08B-111623	Lead	0.001	-	U	Field blank contamination
50359718	GAMW-22B-112023	Arsenic	0.001	-	U	Field blank contamination
50359718	GAMW-22-112023	Barium	-	-	J+	Field blank contamination
50359718	GAMW-16-112023	Barium	-	-	J+	Field blank contamination
50359718	GAMW-16-112023	Chromium	0.002	-	U	Field blank contamination
50359718	GAMW-22-112023	Lead	0.001	-	U	Field blank contamination
50359718	GAMW-22B-112023	Lead	0.001	-	U	Field blank contamination
50359718	GAMW-16-112023	Lead	0.001	-	U	Field blank contamination
50359718	GAMW-17-112823	Chromium	0.002	-	U	Field blank contamination
50359718	GAMW-17B-112823	Chromium	0.002	-	U	Field blank contamination
50359718	GAMW-17-112823	Lead	0.001	-	U	Field blank contamination
50359718	GAMW-17B-112823	Lead	0.001	-	U	Field blank contamination
50359719	GAMW-12R-112923	Radium-228	-	-	J	Field duplicate RPD above QC limit
50359720	FD-03-112923	Radium-228	-	-	J	Field duplicate RPD above QC limit
50359721	GAMW-11-112723	Radium-228	-	-	UJ	MS/MSD % recovery below QC limit
50359722	GAMW-11B-112723	Radium-228	-	-	J-	MS/MSD % recovery below QC limit
50359723	GAMW-11C-112723	Radium-228	-	-	UJ	MS/MSD % recovery below QC limit

TABLE 2

**Qualifier Summary Table
NIPSCO CCR Groundwater Monitoring - Bailly Generating Station**

<i>Laboratory SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
50359724	GAMW-11-112723	Total Radium	-	-	UJ	MS/MSD % recovery below QC limit
50359725	GAMW-11B-112723	Total Radium	-	-	UJ	MS/MSD % recovery below QC limit
50359726	GAMW-11C-112723	Total Radium	-	-	UJ	MS/MSD % recovery below QC limit
All SDGs	All Samples	-	-	-	-	Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating estimated results below the reporting limit are retained unless other qualification is indicated in this table. All other qualifiers are removed.

Abbreviations:

RL: Reporting Limit
 QC: Quality Control
 RPD: Relative percent difference
 MS/MSD: Matrix Spike/Matrix Spike Duplicate

Qualifier Definitions:

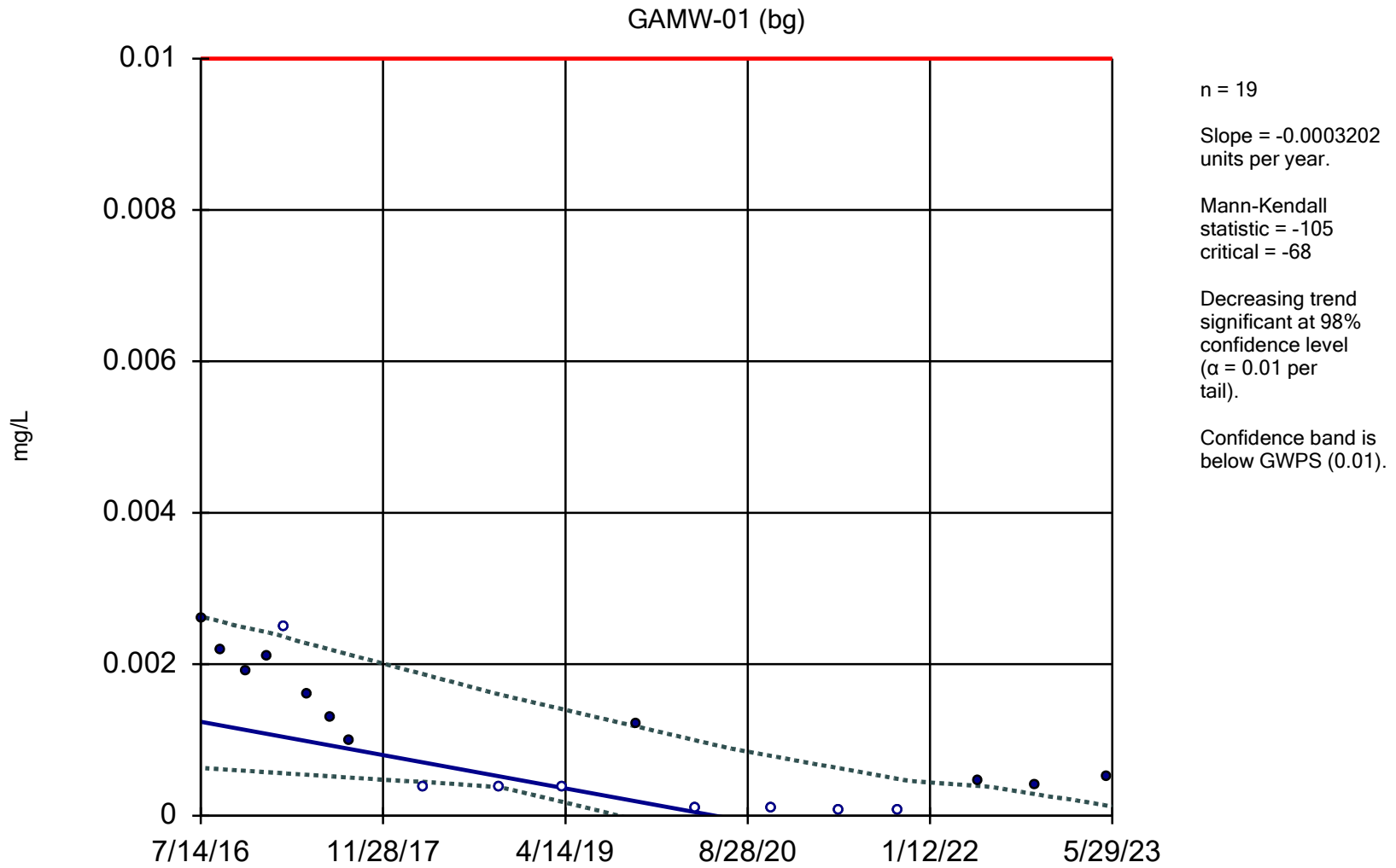
J: Estimated Result
 U: Non-detect Result
 J+: Estimated and potentially biased high result
 UJ: Estimated and non-detect result
 J-: Estimated and potentially biased low result

Created by: GRD
 Checked by: DFSC
 Reviewed by: MAH

APPENDIX D

2023 Statistical Analysis

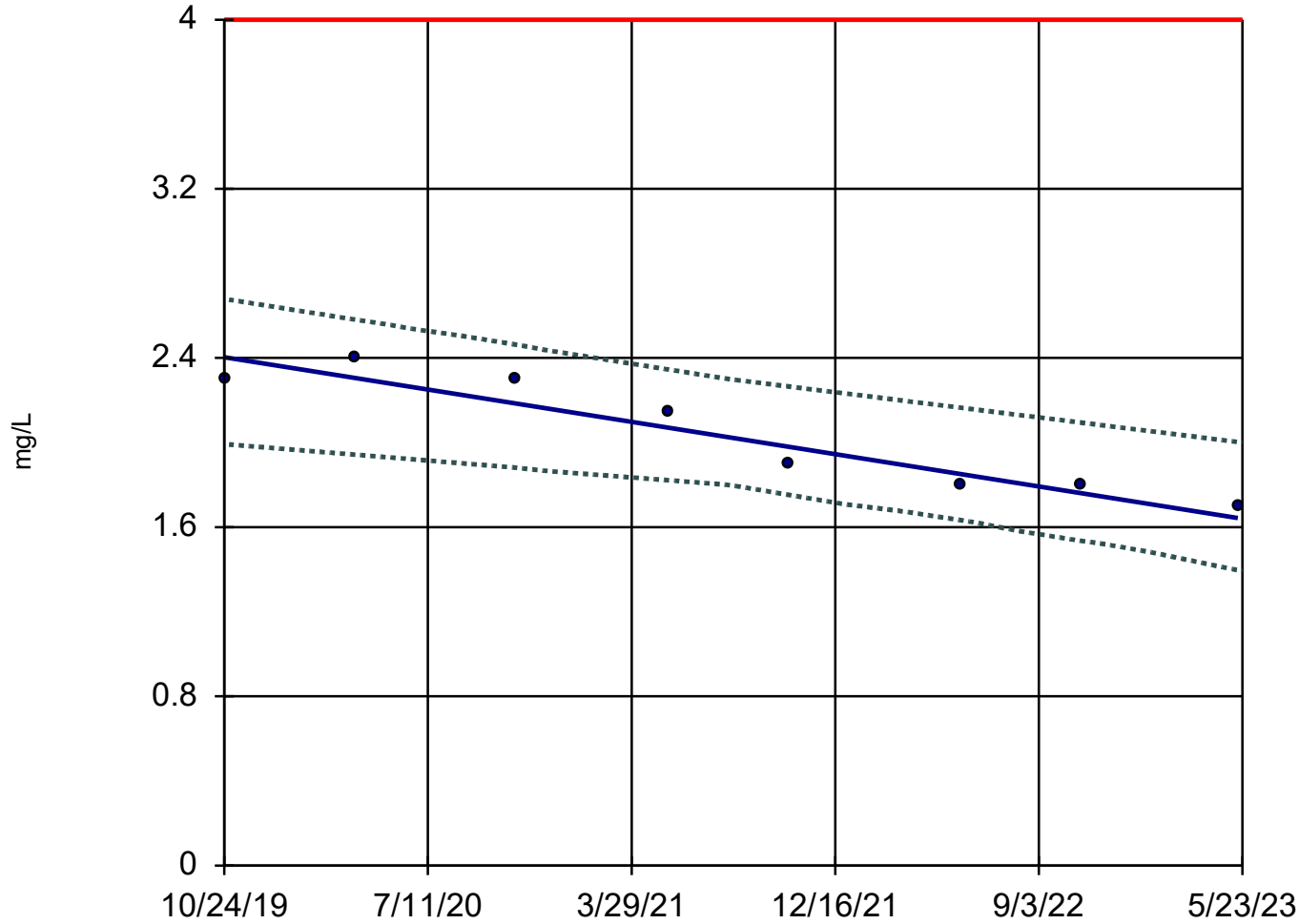
Sen's Slope and 95% Confidence Band



Constituent: Arsenic Analysis Run 8/3/2023 2:11 PM View: Background
 Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Sen's Slope and 95% Confidence Band

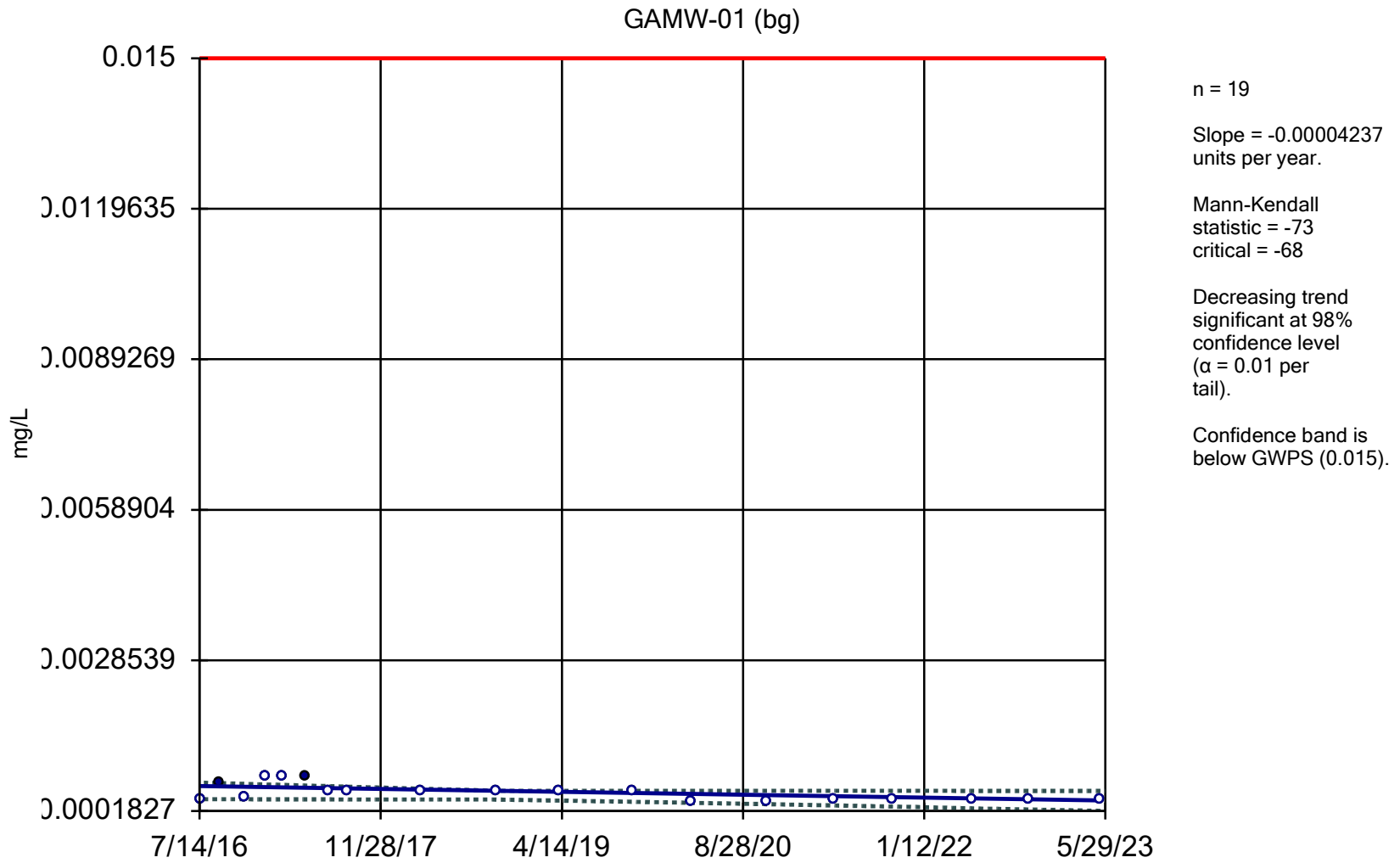
GAMW-01B (bg)



n = 8
Slope = -0.2131 units per year.
Mann-Kendall statistic = -24
critical = -20
Decreasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).
Confidence band is below GWPS (4).

Constituent: Fluoride Analysis Run 8/3/2023 2:11 PM View: Background
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Sen's Slope and 95% Confidence Band

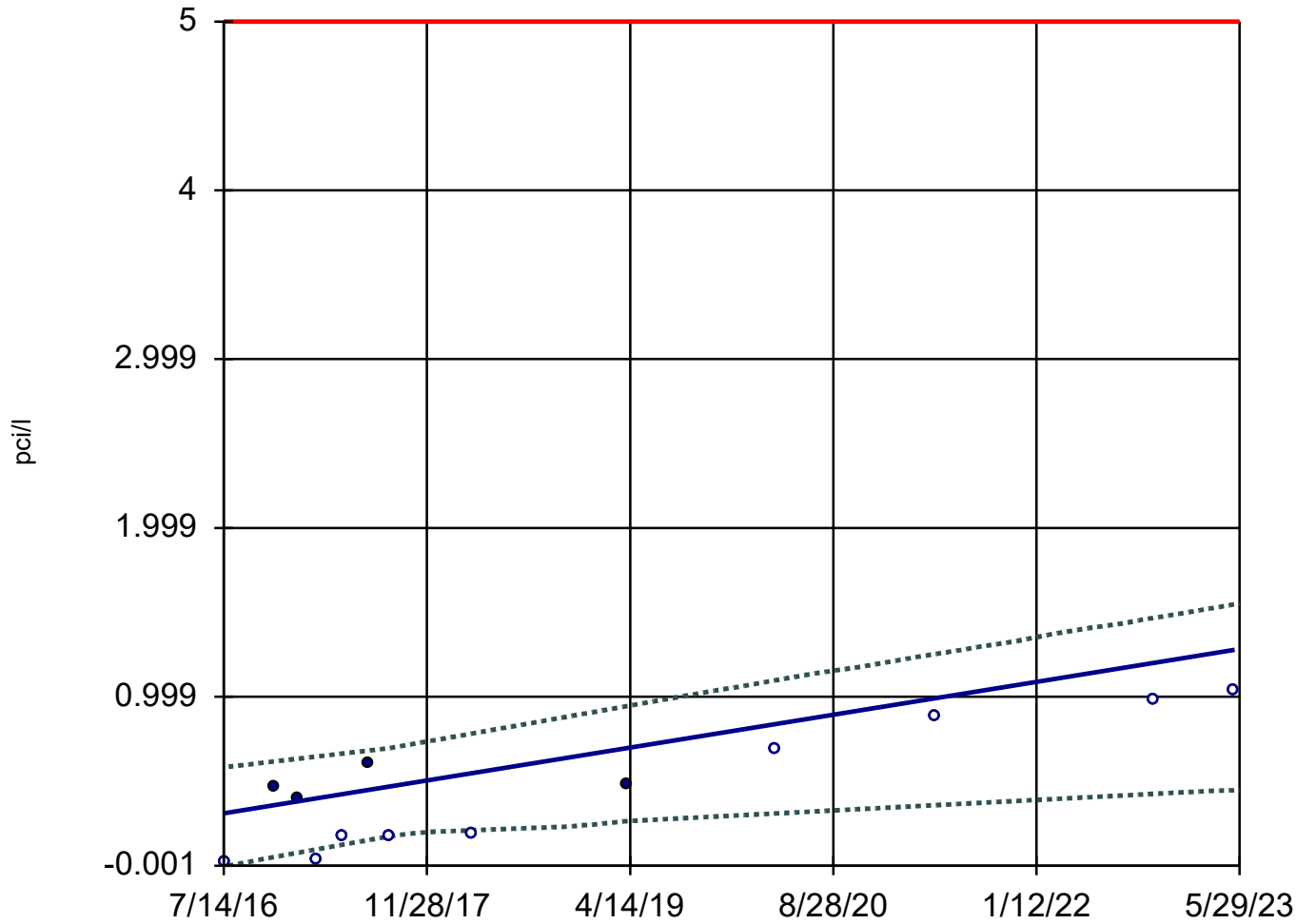


Constituent: Lead Analysis Run 8/3/2023 2:11 PM View: Background

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Sen's Slope and 95% Confidence Band

GAMW-01 (bg)



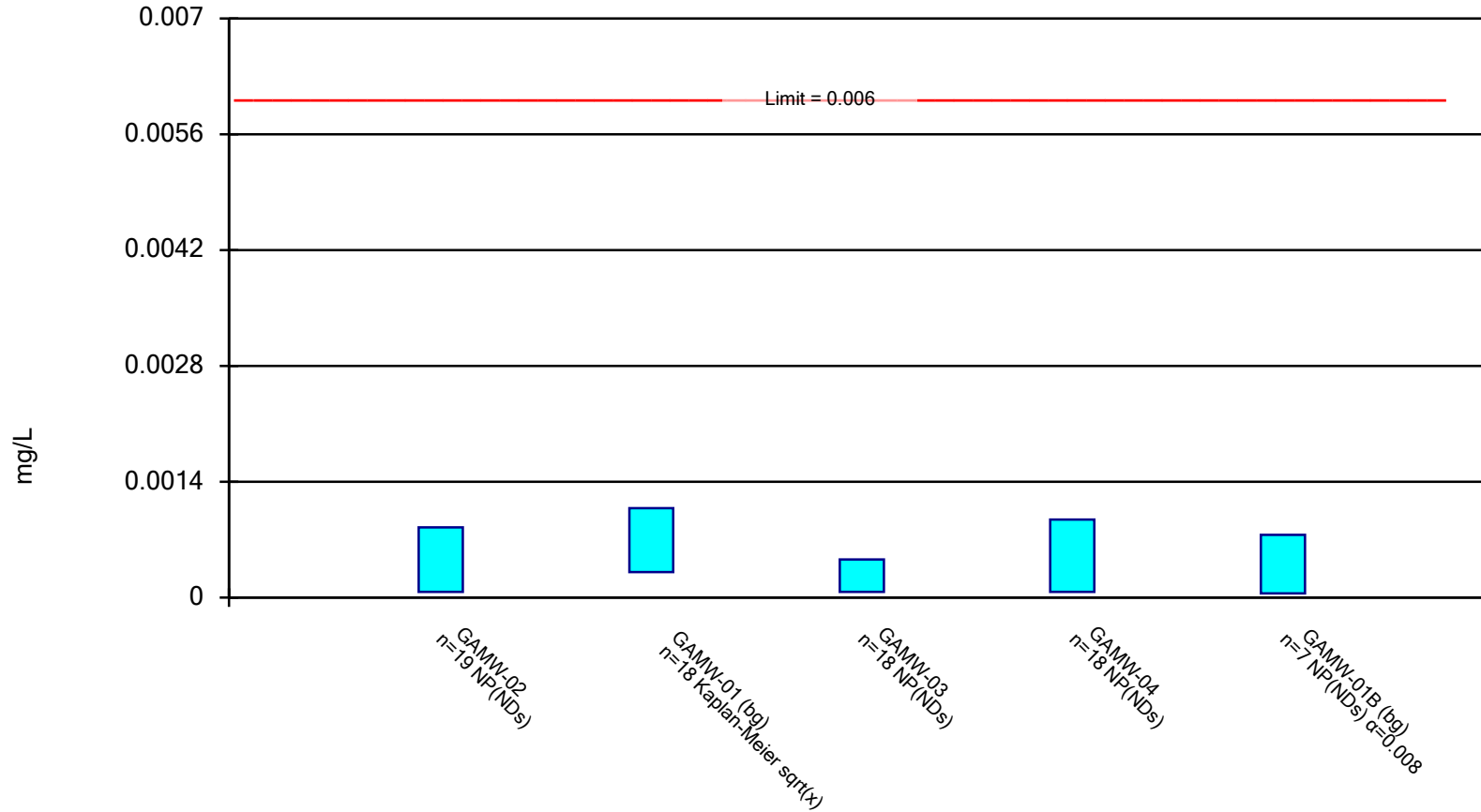
n = 13
Slope = 0.1416 units per year.
Mann-Kendall statistic = 52
critical = 39
Increasing trend significant at 98% confidence level ($\alpha = 0.01$ per tail).
Confidence band is below GWPS (5).

Constituent: Radium 226 + 228 Analysis Run 8/3/2023 2:11 PM View: Background

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

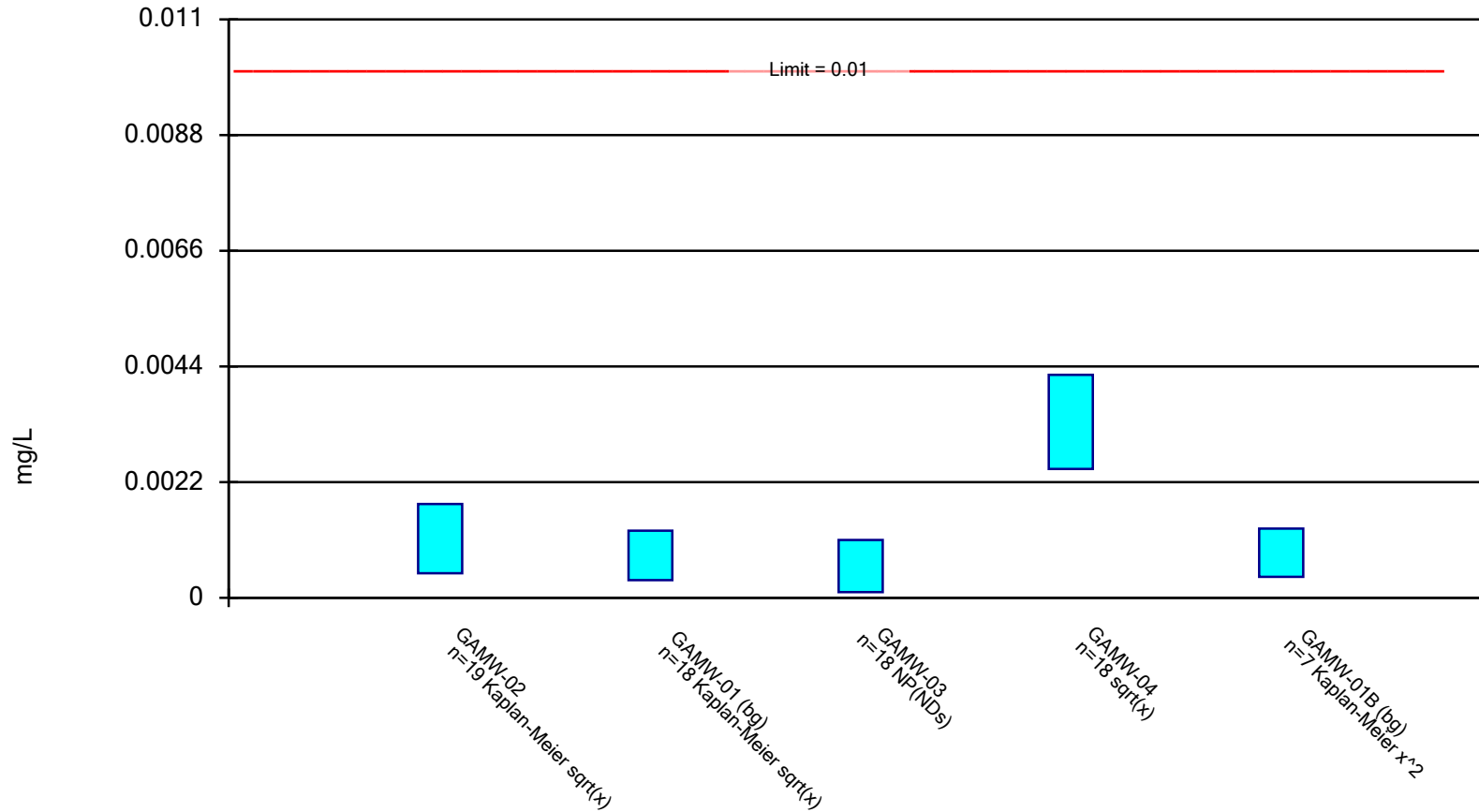


Constituent: Antimony Analysis Run 2/6/2023 4:42 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

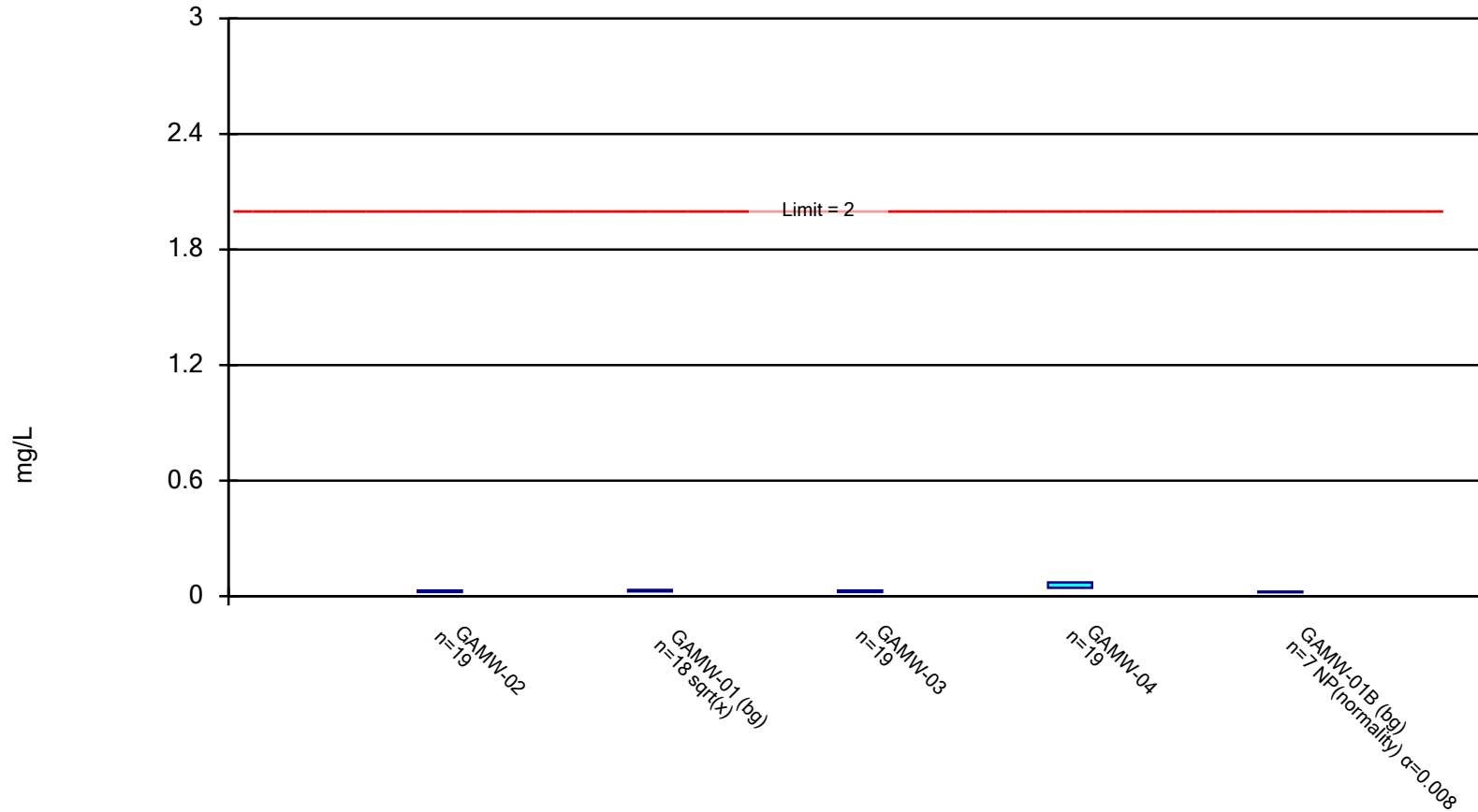


Constituent: Arsenic Analysis Run 2/6/2023 4:42 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

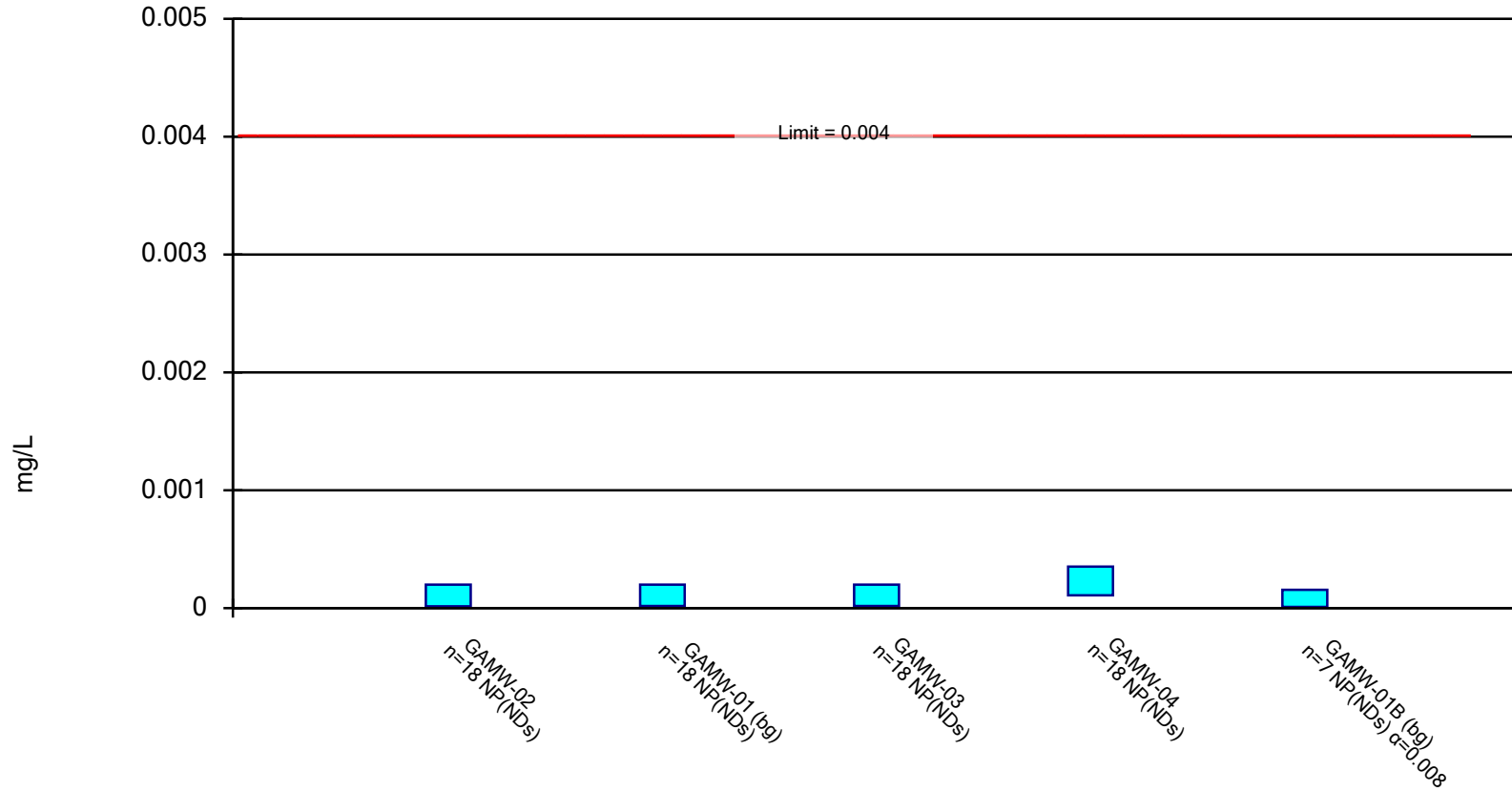


Constituent: Barium Analysis Run 2/6/2023 4:42 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Non-Parametric Confidence Interval

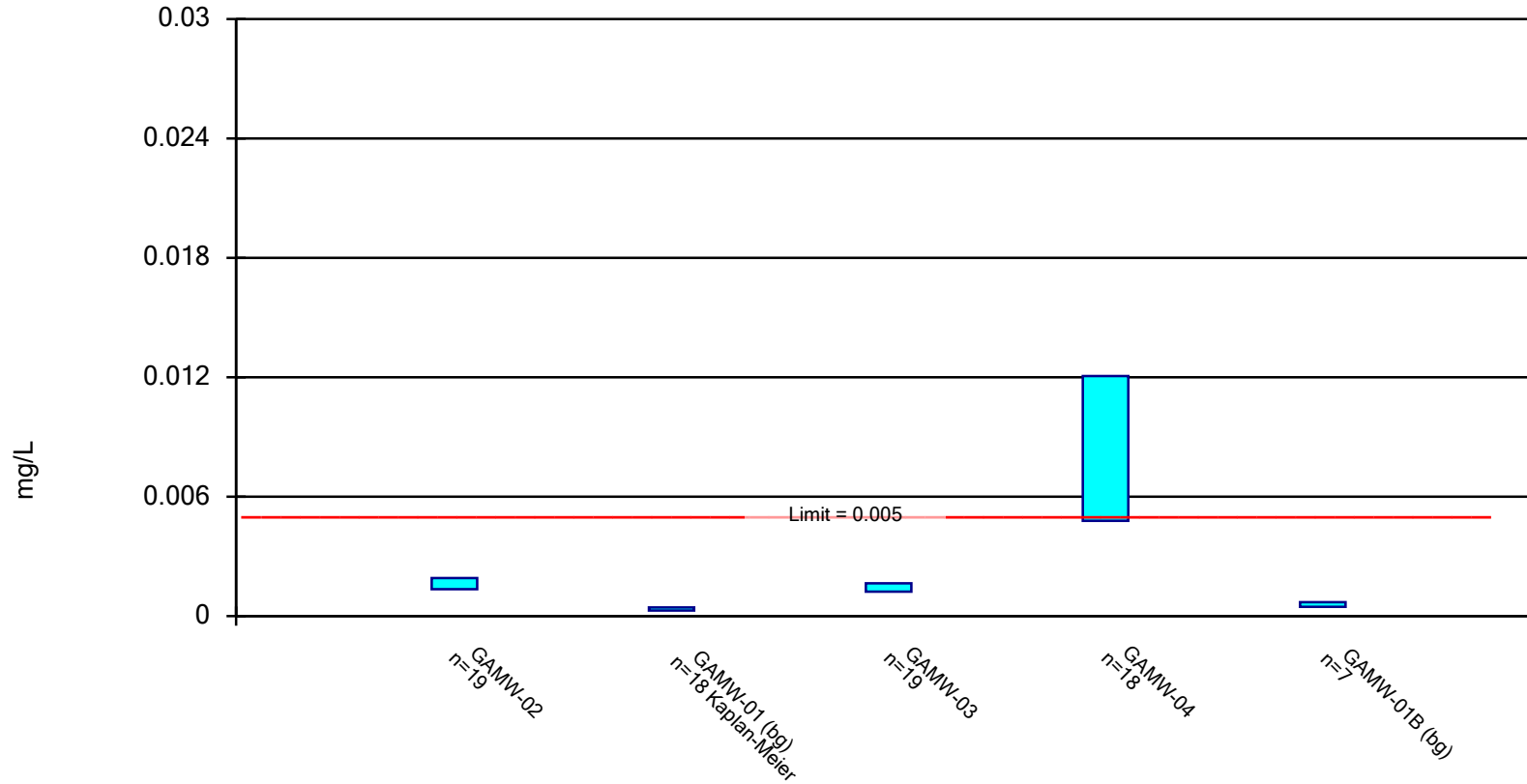
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Beryllium Analysis Run 2/6/2023 4:42 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

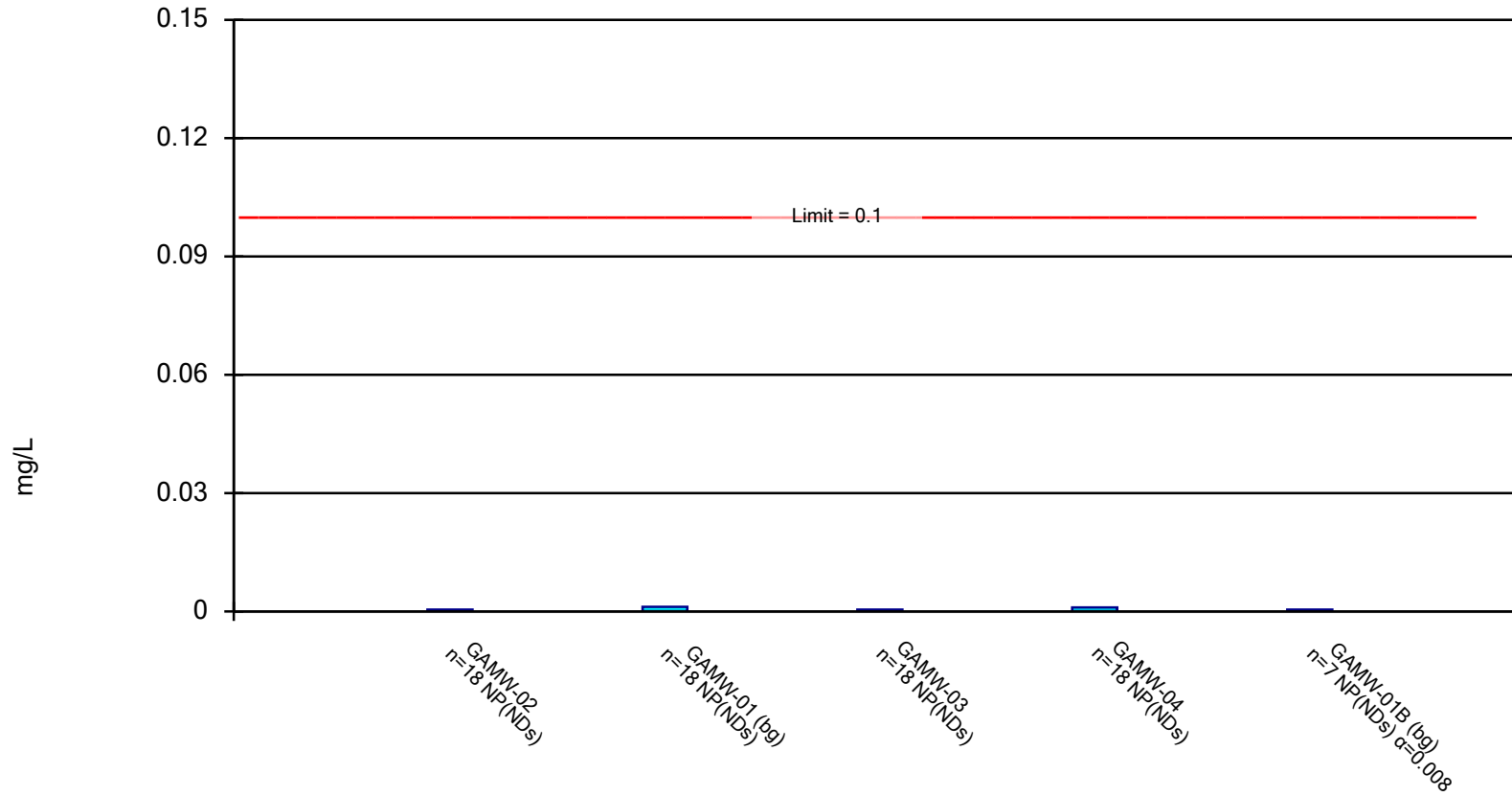
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 2/6/2023 4:42 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Non-Parametric Confidence Interval

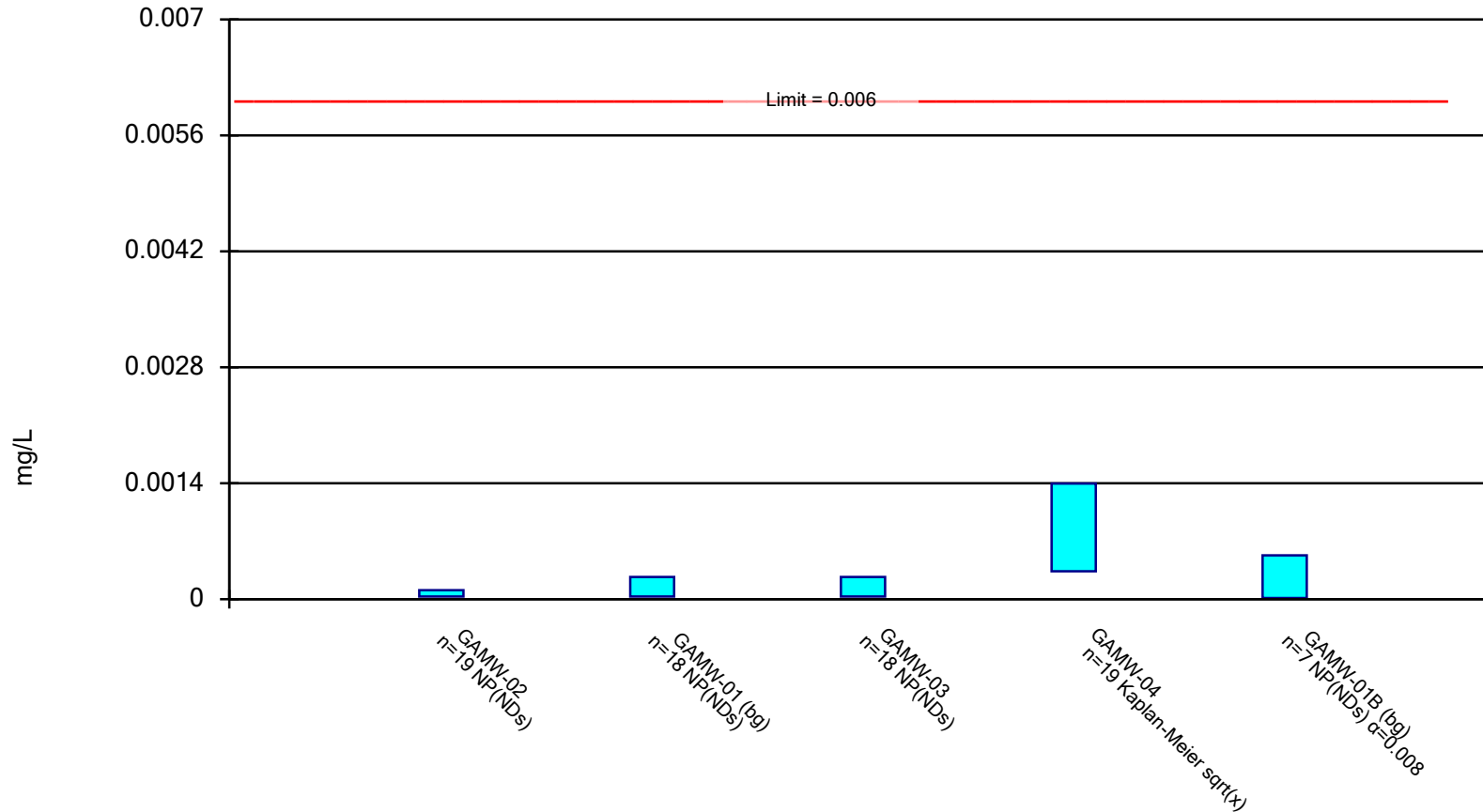
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 2/6/2023 4:42 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

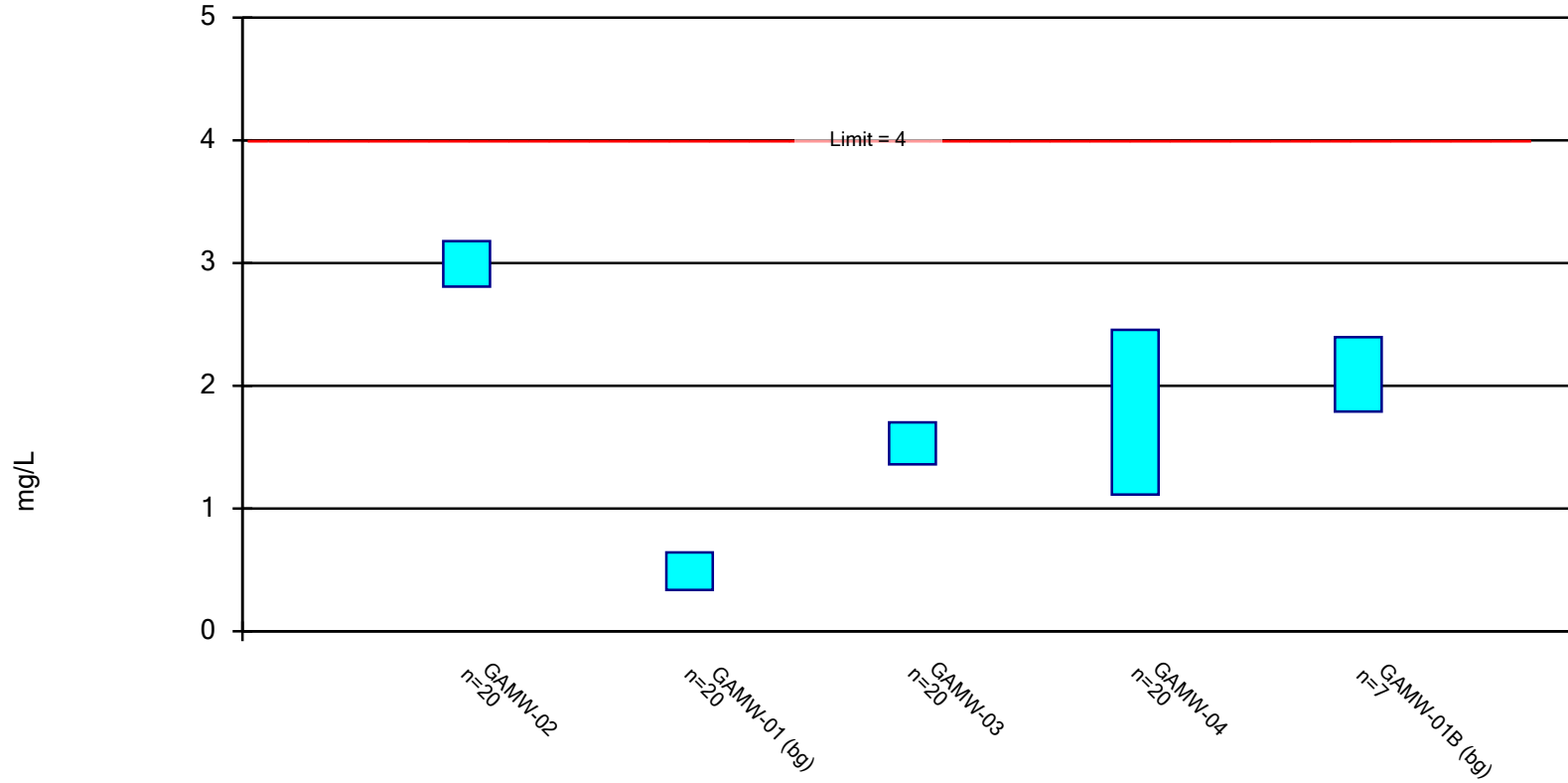


Constituent: Cobalt Analysis Run 2/6/2023 4:42 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

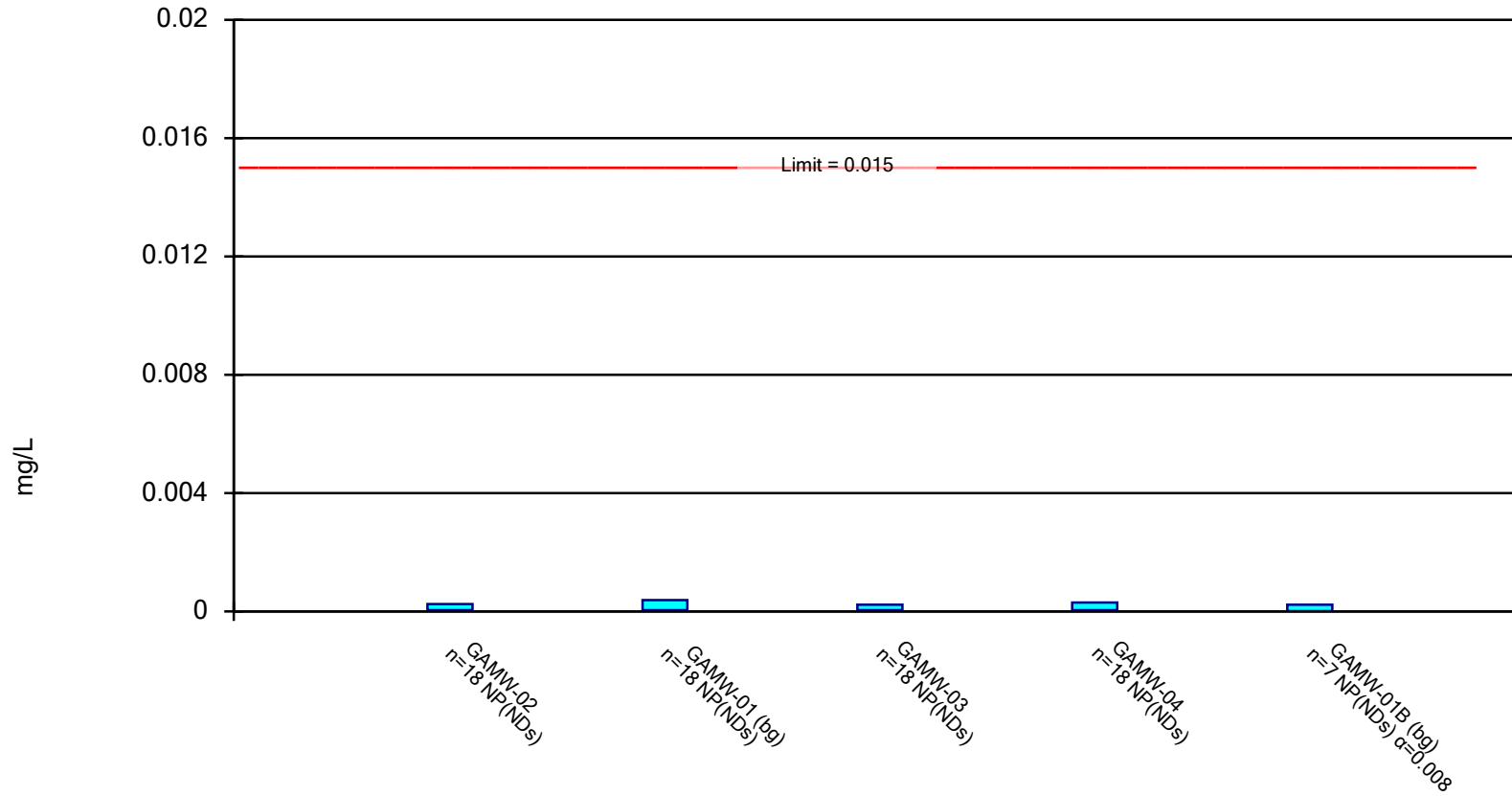
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 2/6/2023 4:42 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

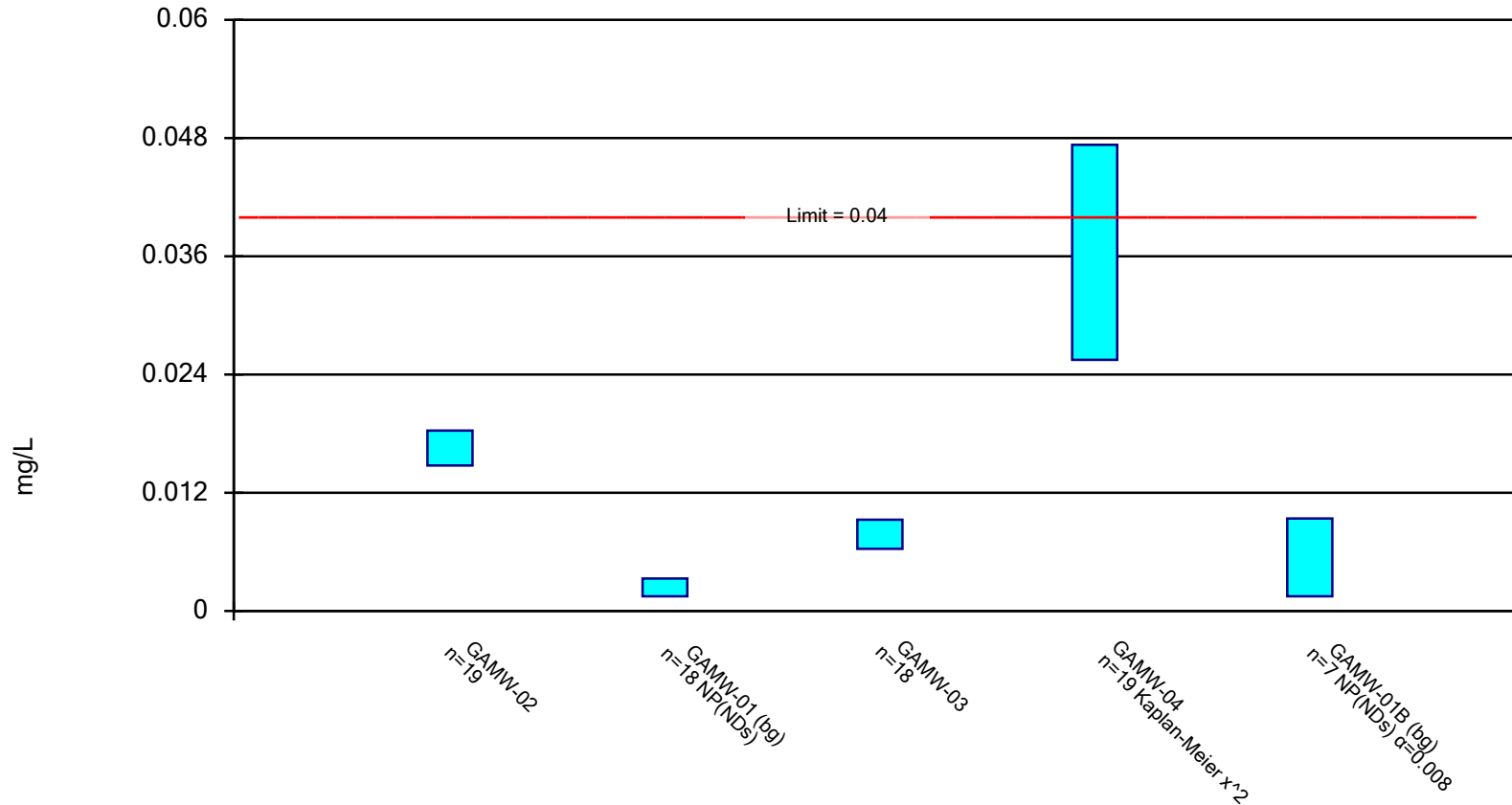


Constituent: Lead Analysis Run 2/6/2023 4:42 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

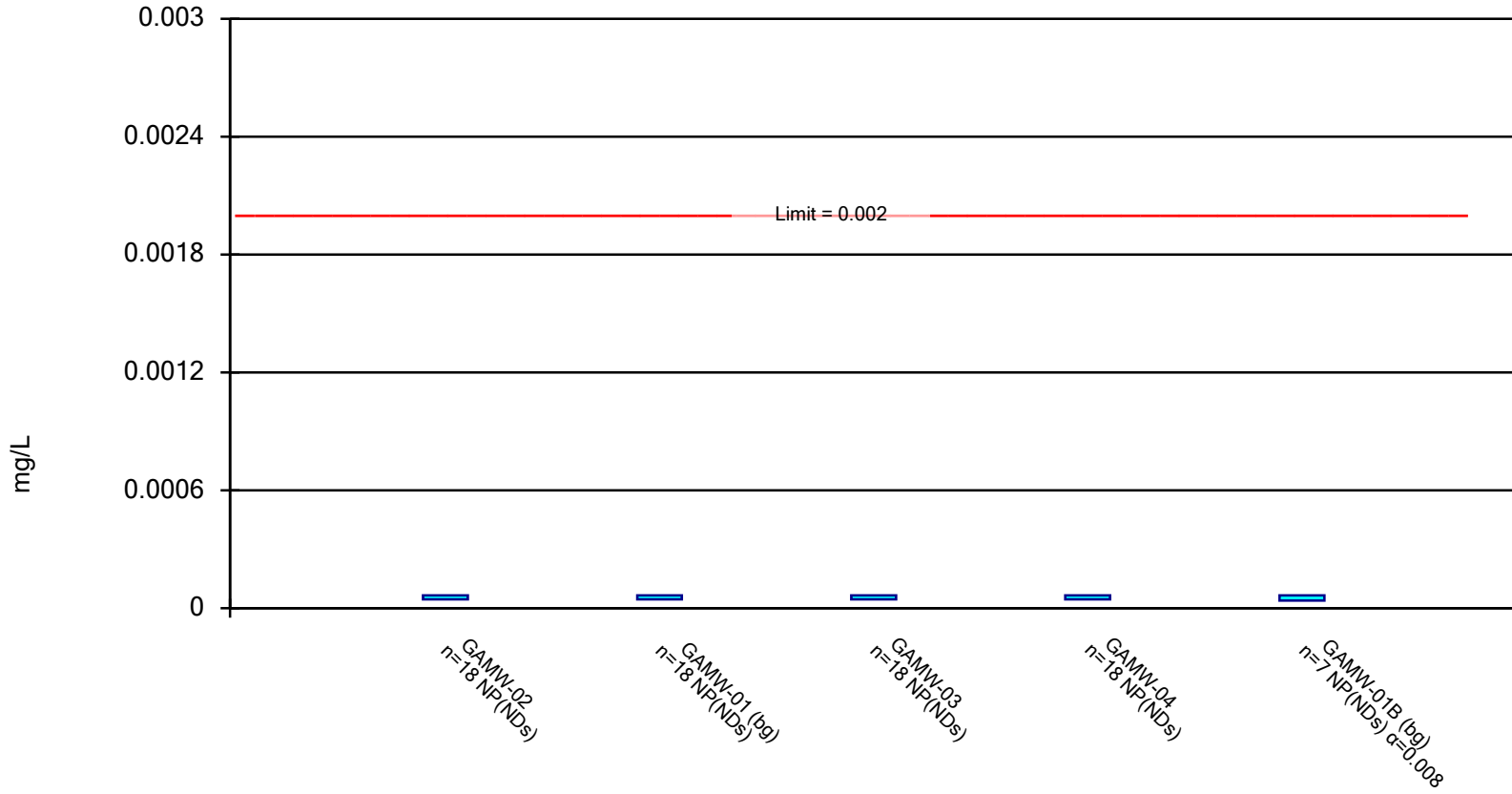


Constituent: Lithium Analysis Run 2/6/2023 4:42 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

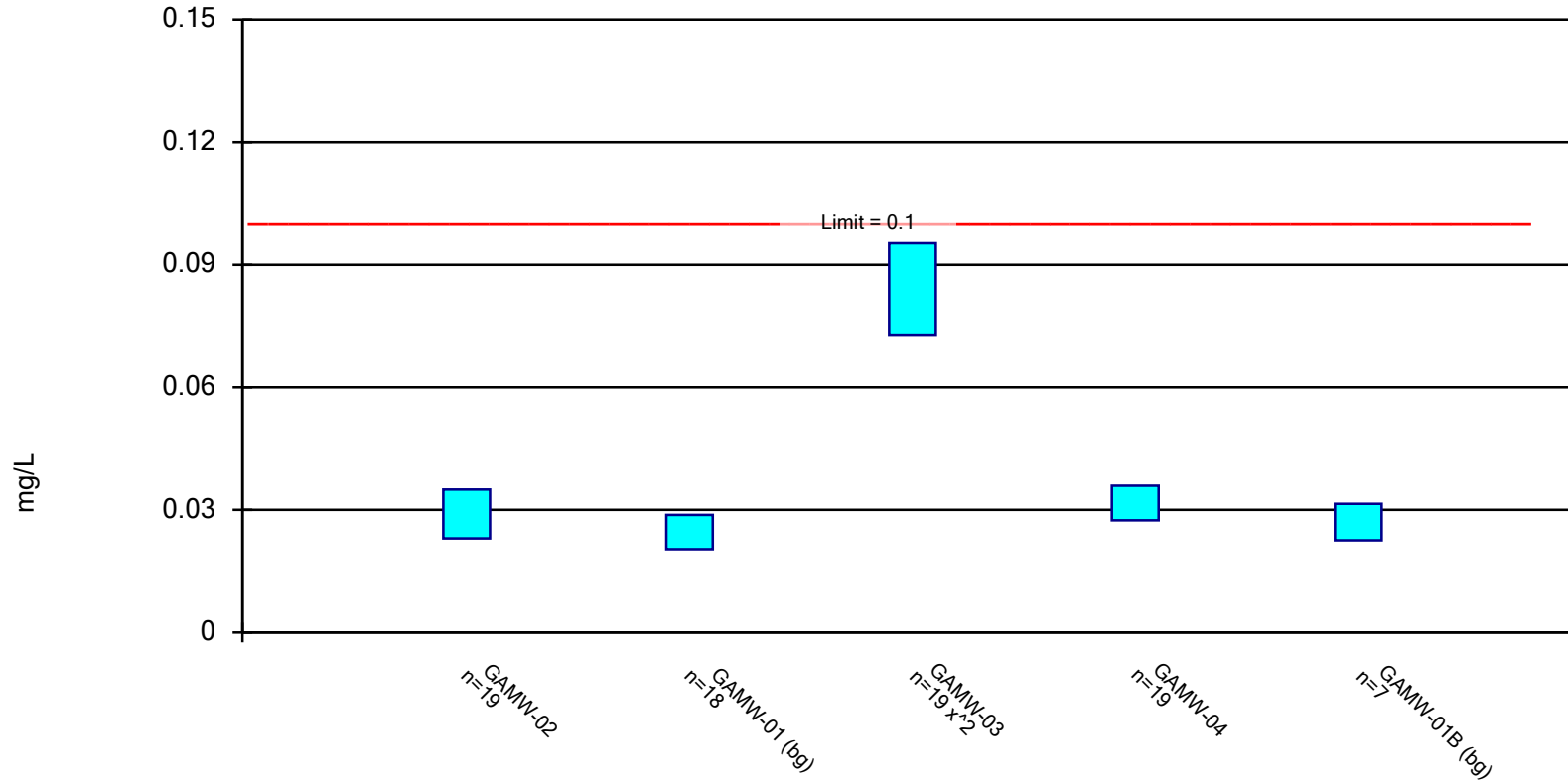


Constituent: Mercury Analysis Run 2/6/2023 4:42 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

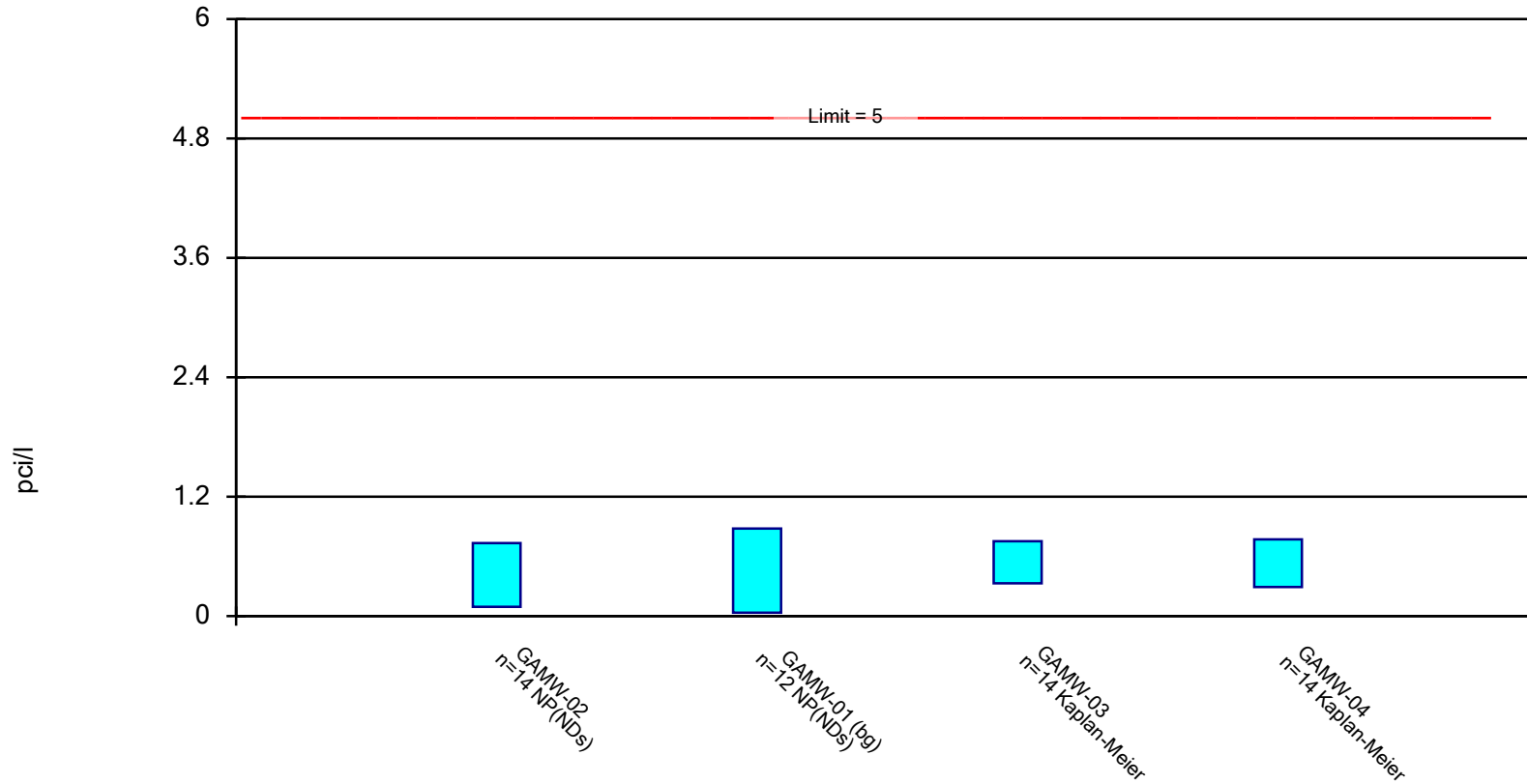
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/6/2023 4:42 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

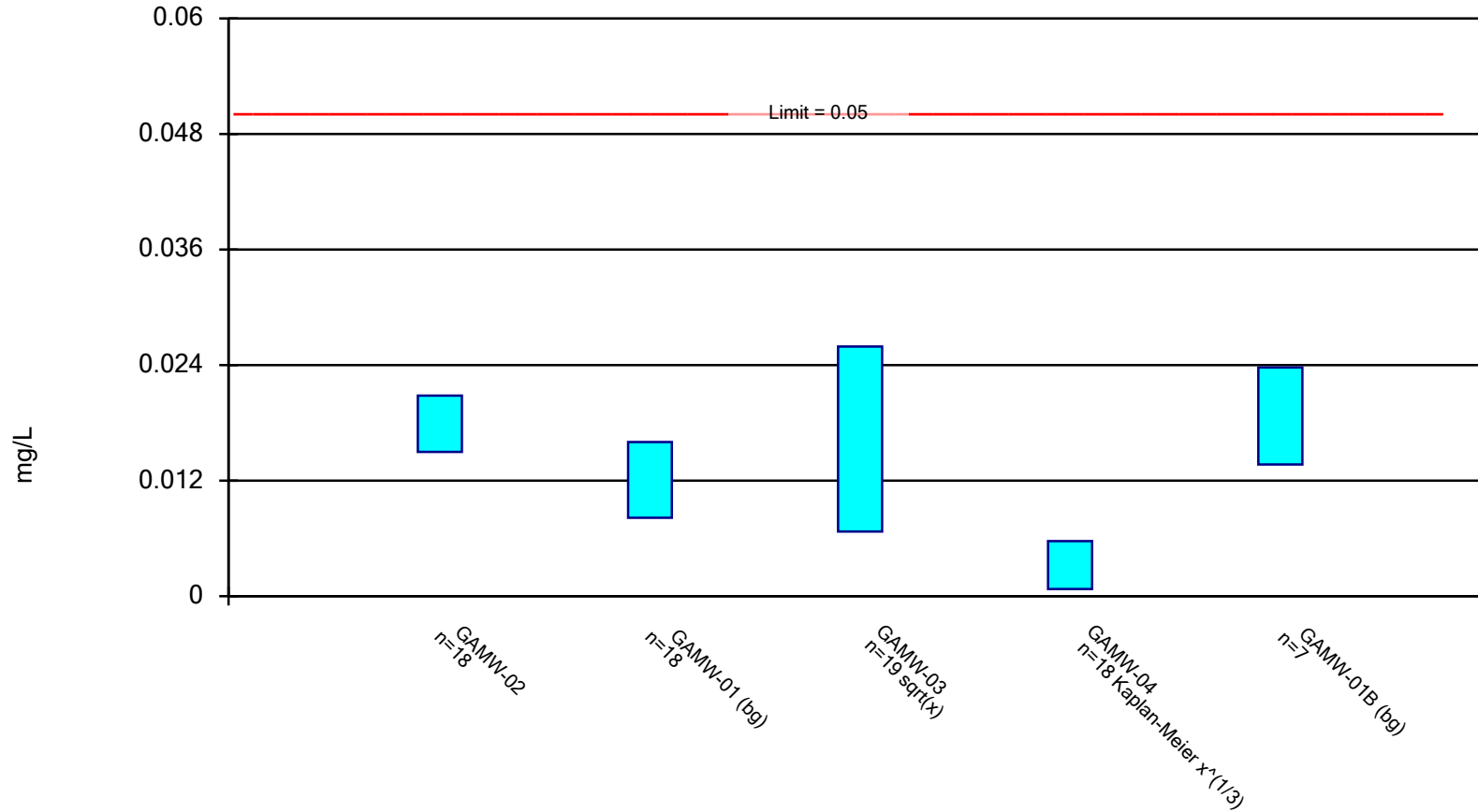


Constituent: Radium 226 + 228 Analysis Run 2/6/2023 4:42 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

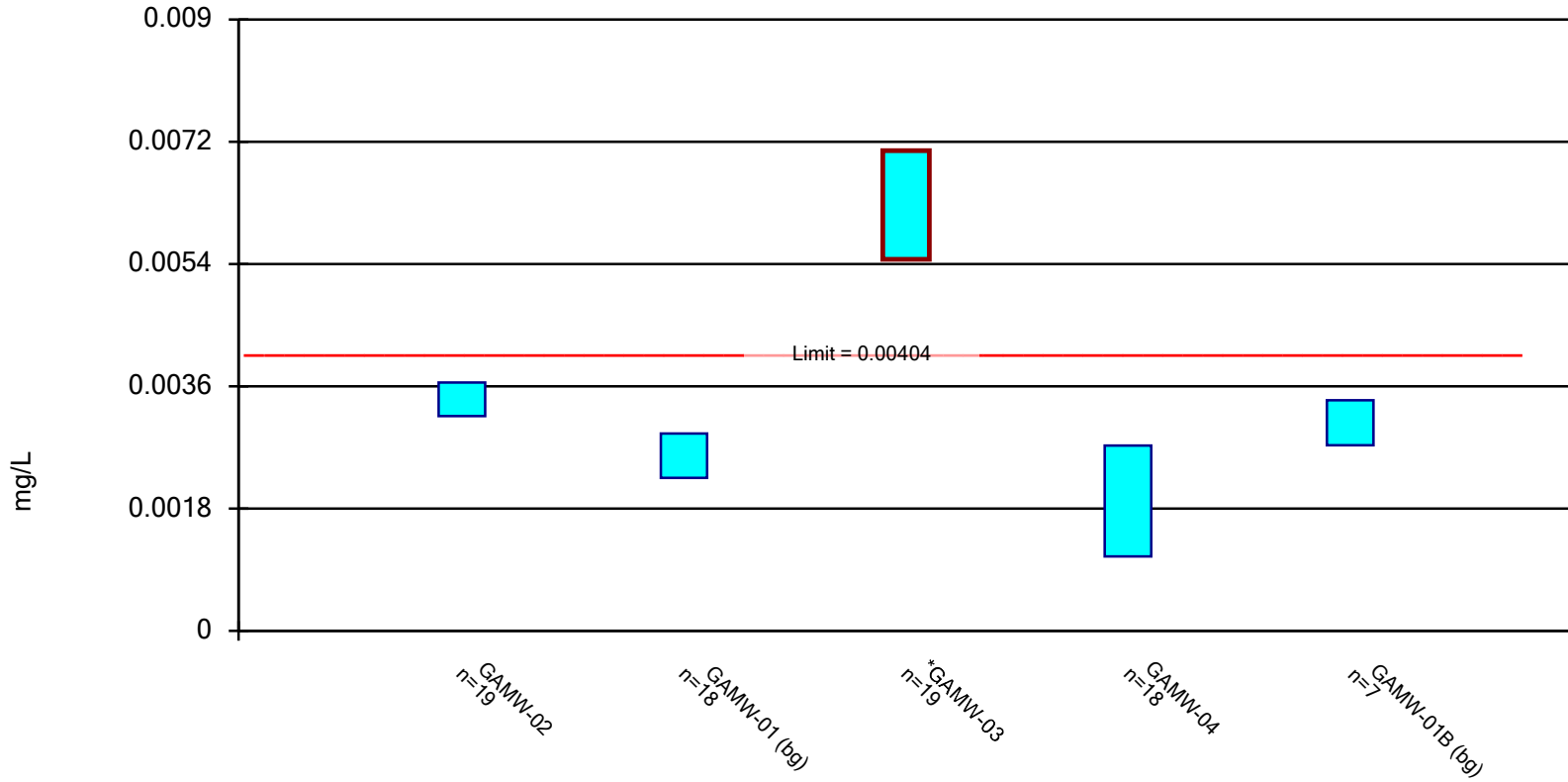
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 2/6/2023 4:42 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

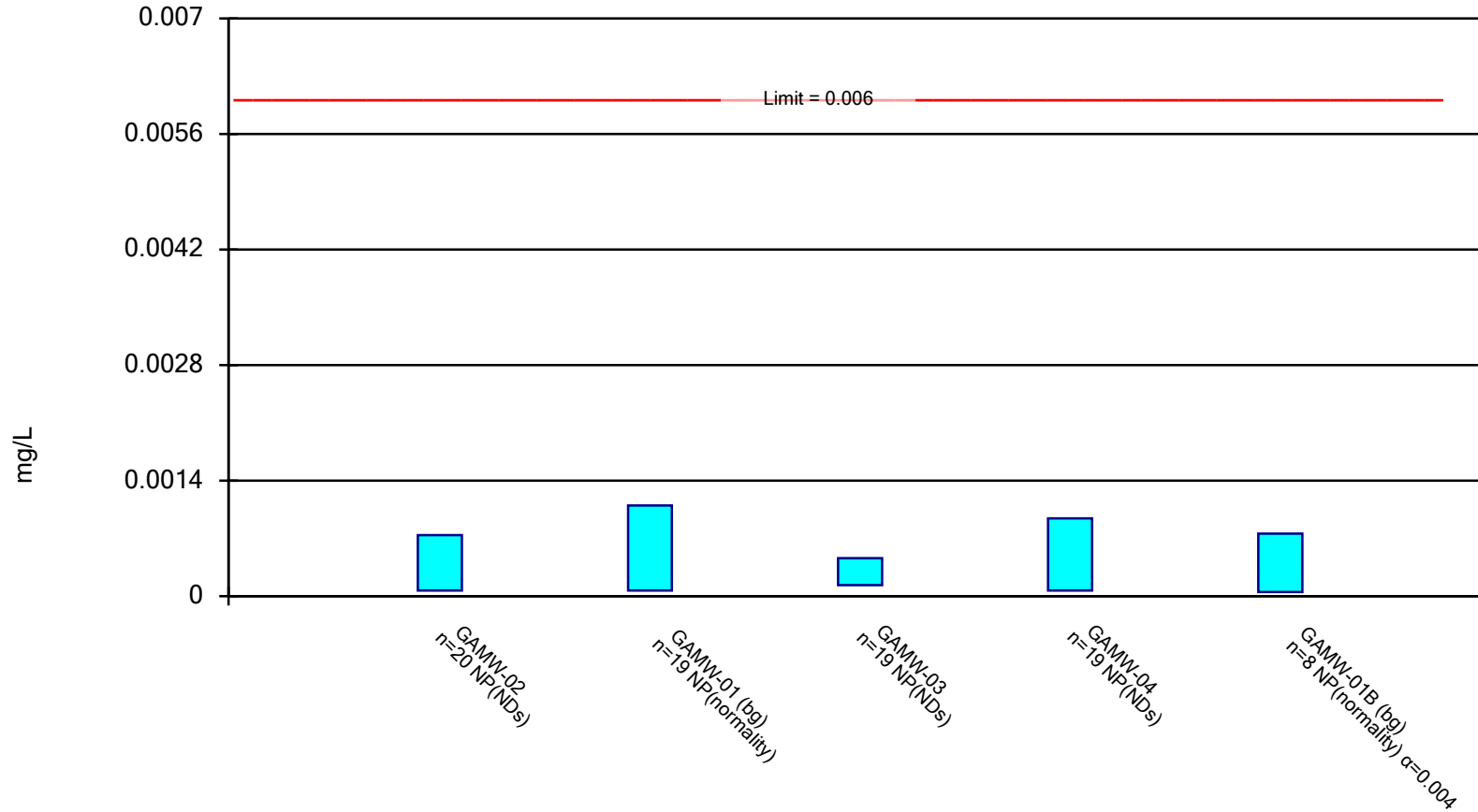
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 2/6/2023 4:42 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Non-Parametric Confidence Interval

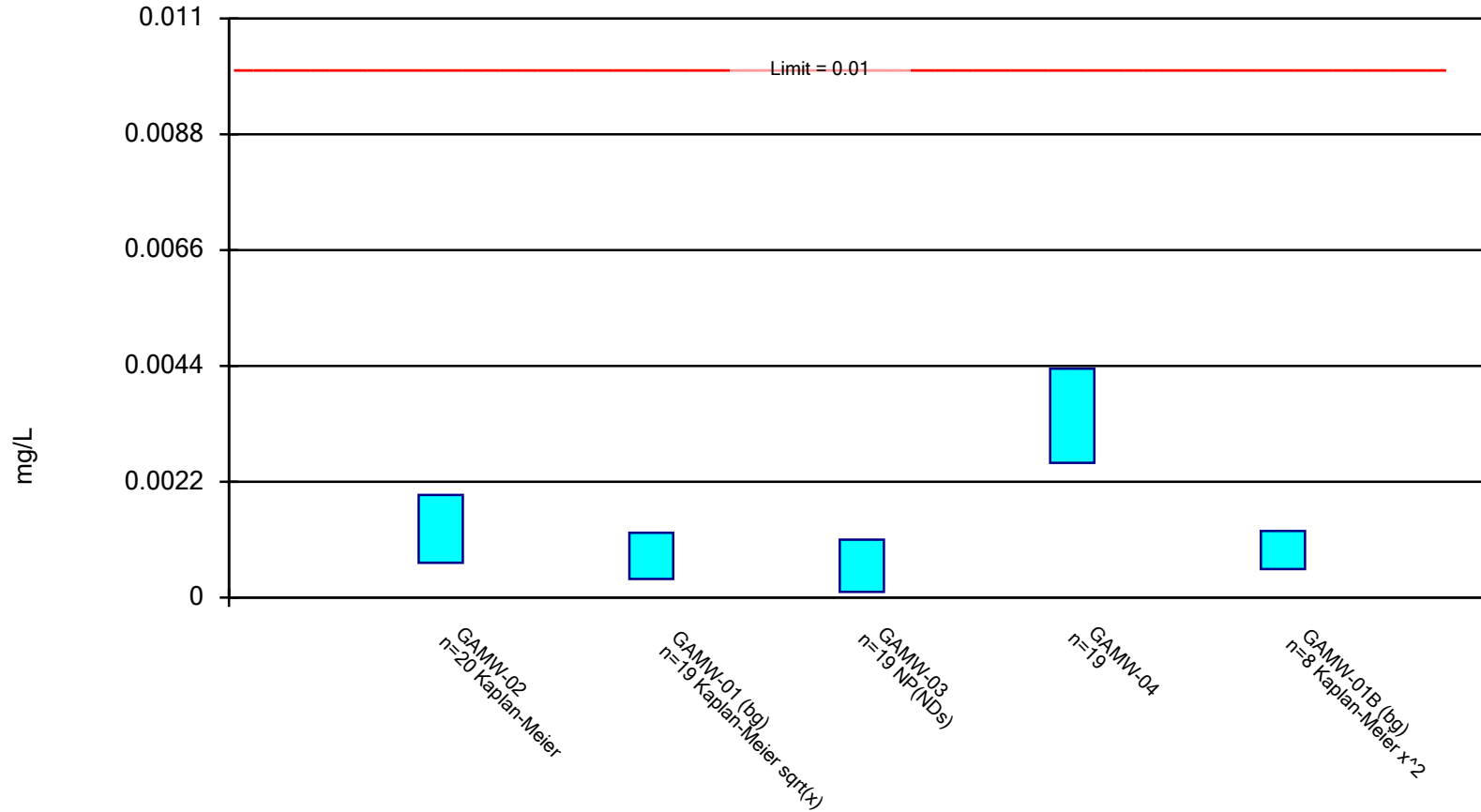
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 1/18/2024 2:33 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

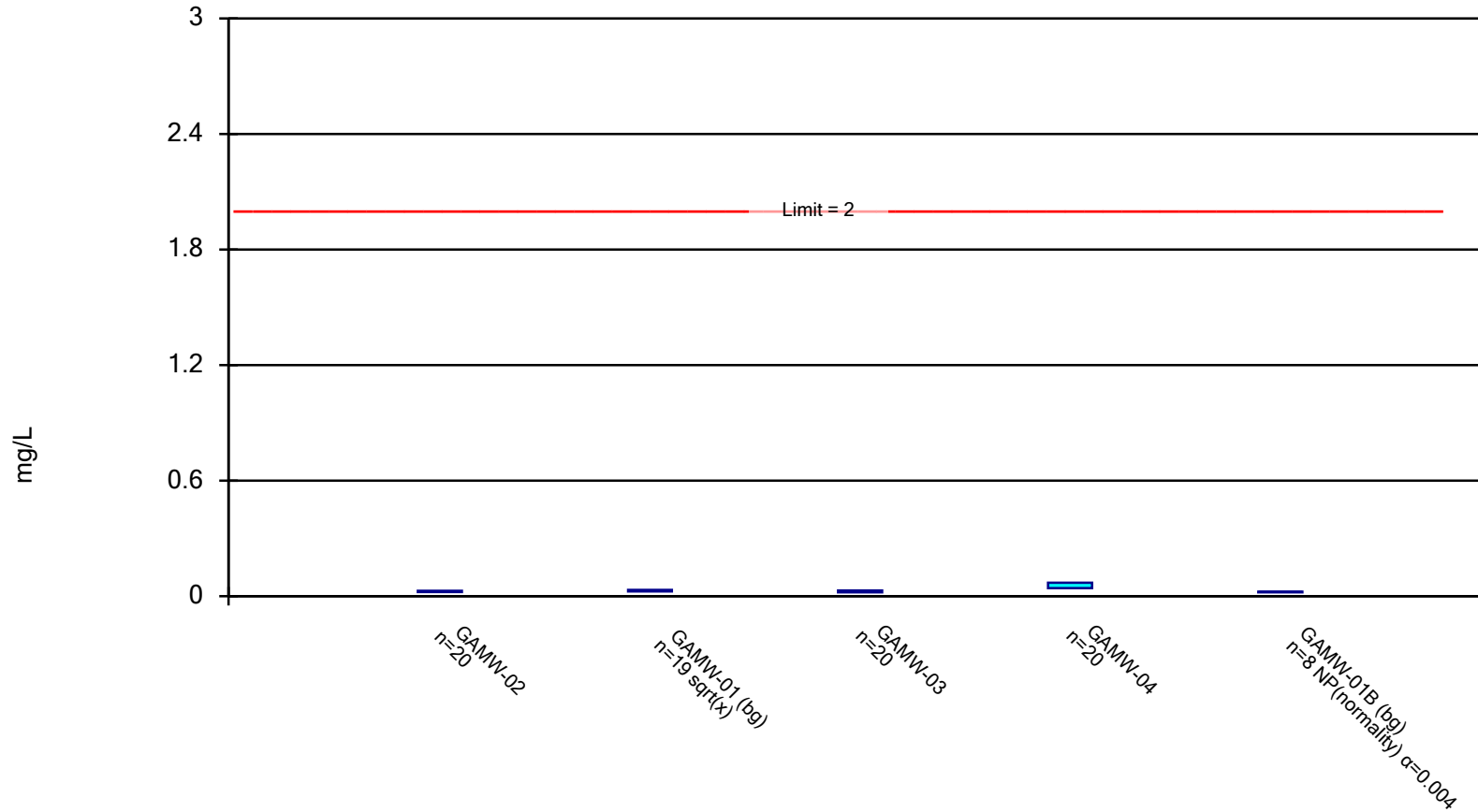


Constituent: Arsenic Analysis Run 1/18/2024 2:33 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

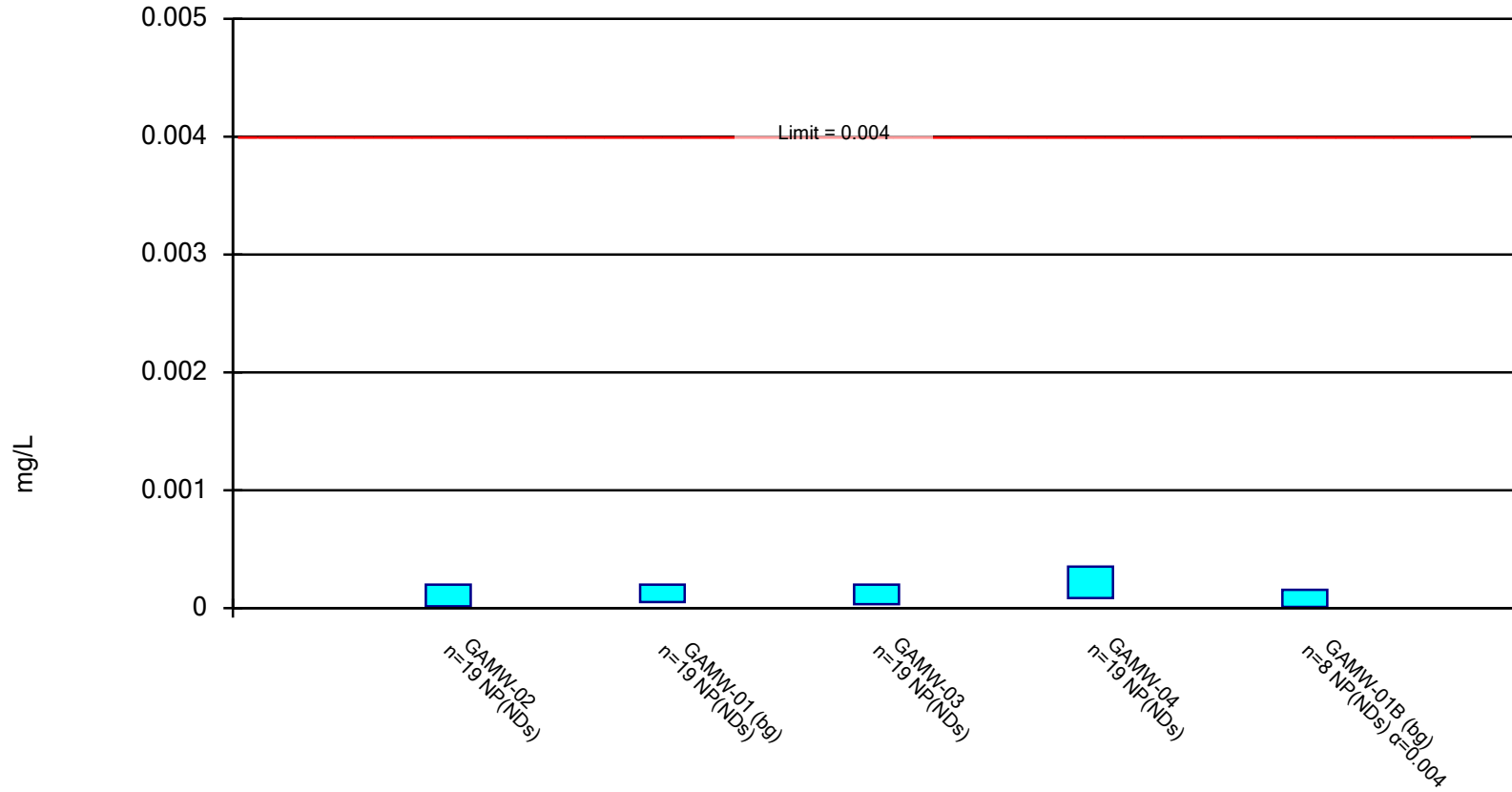


Constituent: Barium Analysis Run 1/18/2024 2:33 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Non-Parametric Confidence Interval

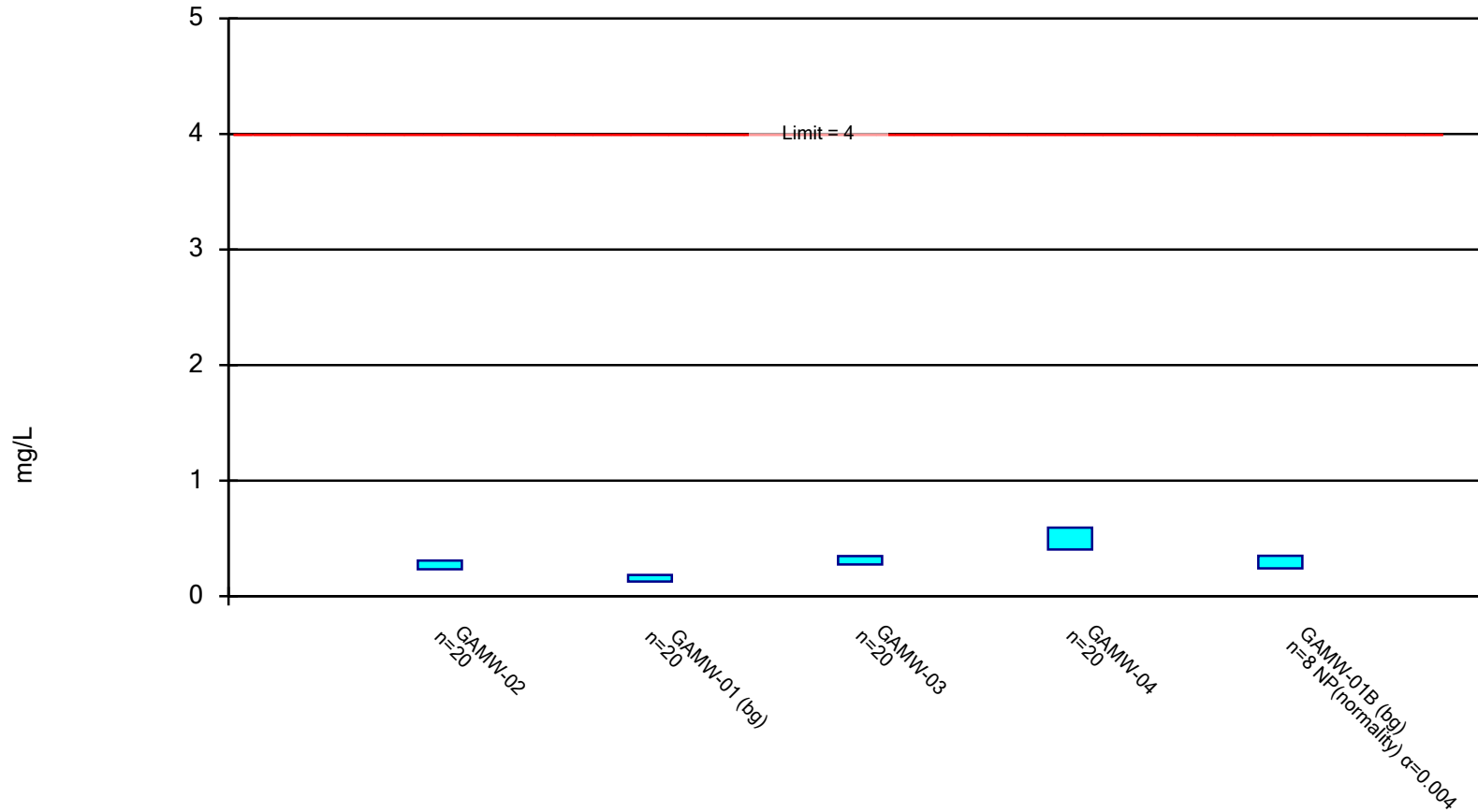
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Beryllium Analysis Run 1/18/2024 2:33 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

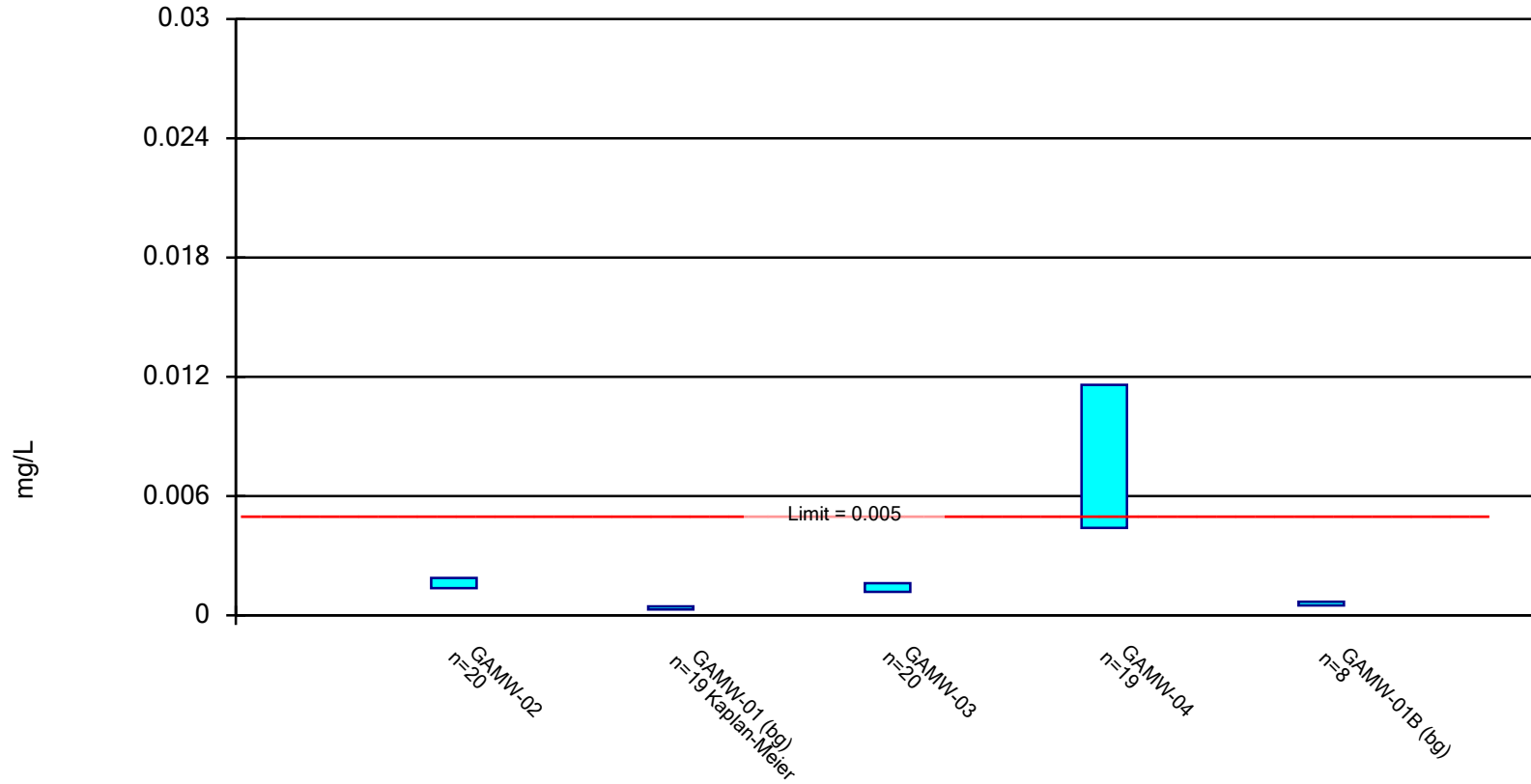


Constituent: Boron Analysis Run 1/18/2024 2:33 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

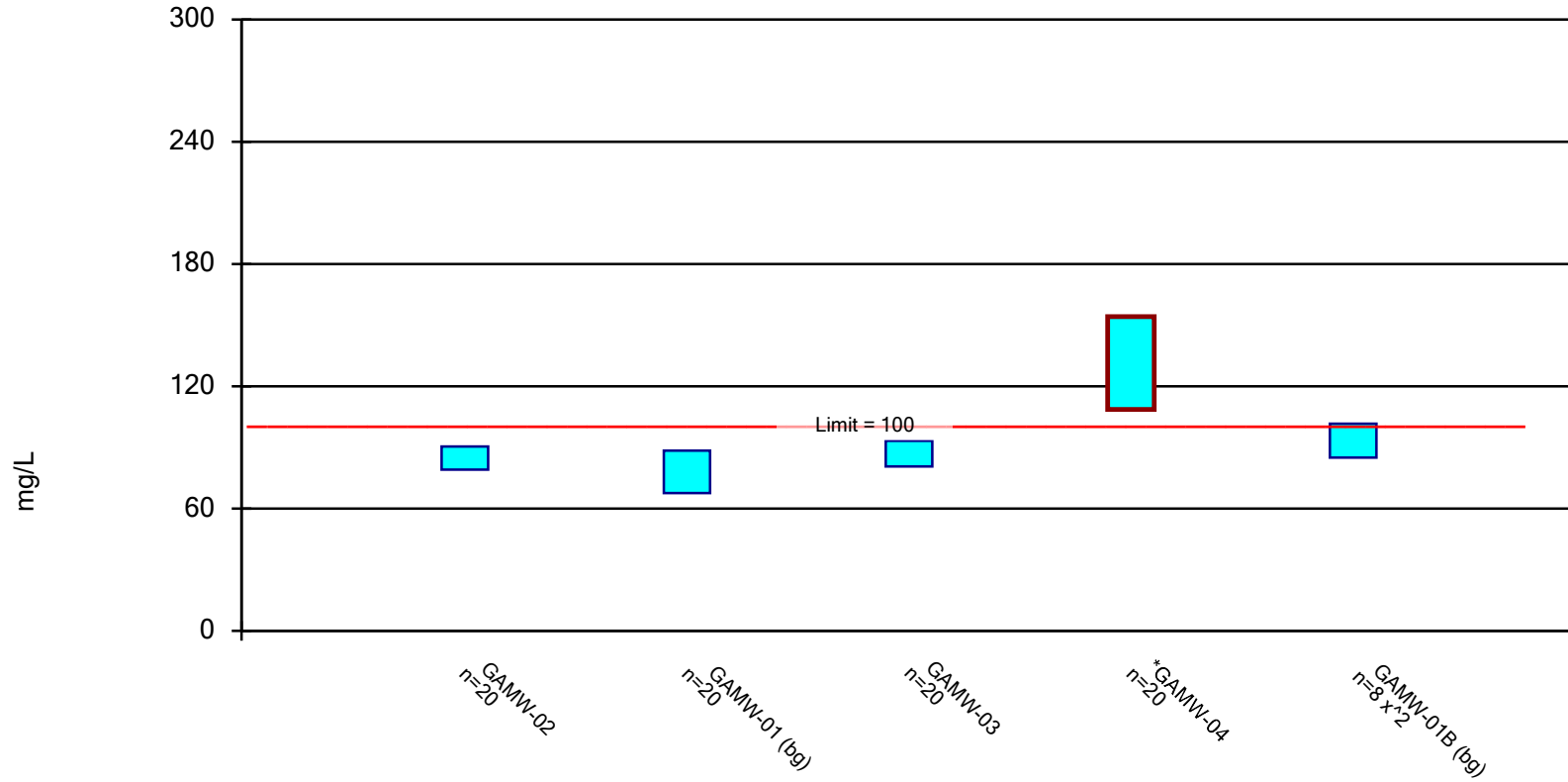
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 1/18/2024 2:34 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

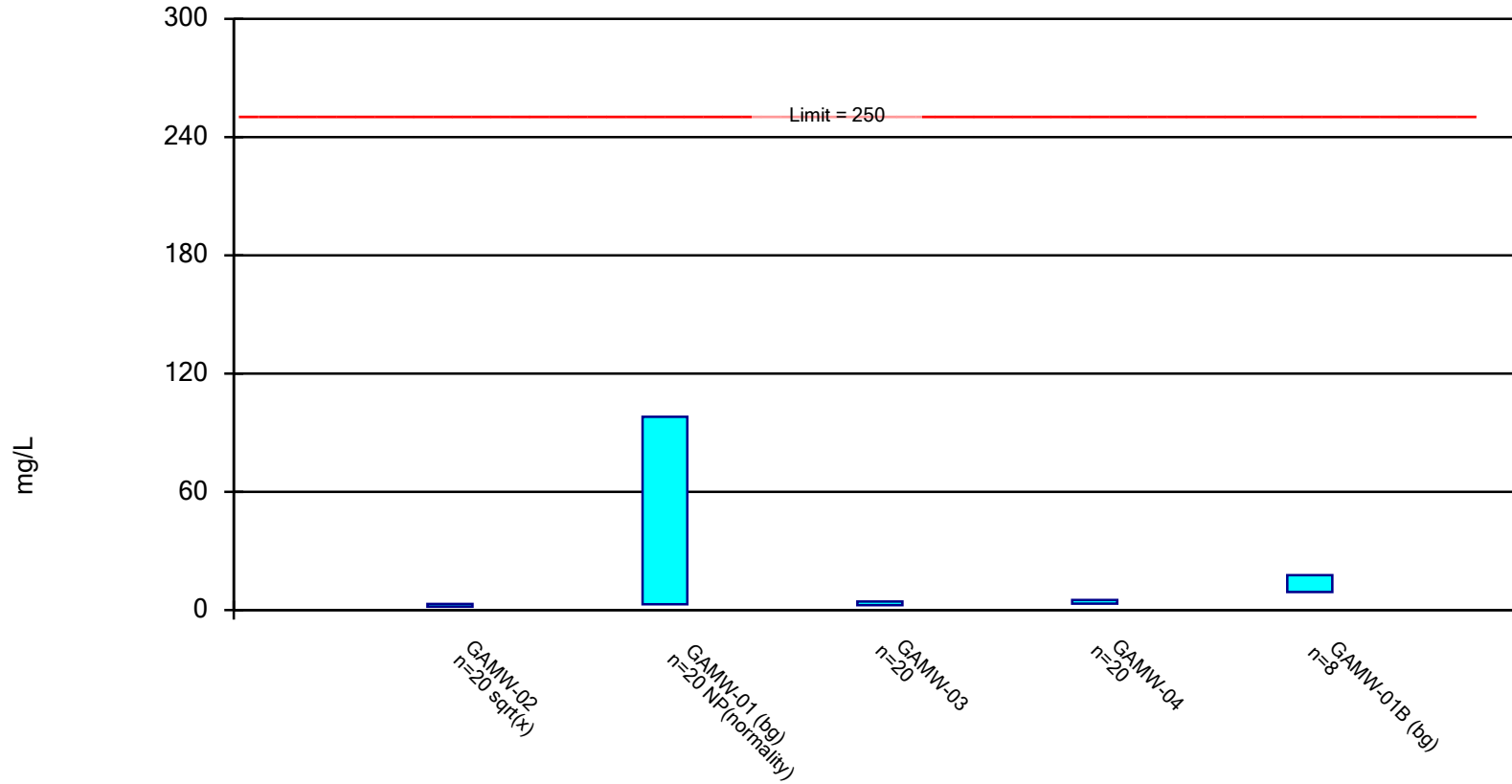


Constituent: Calcium Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

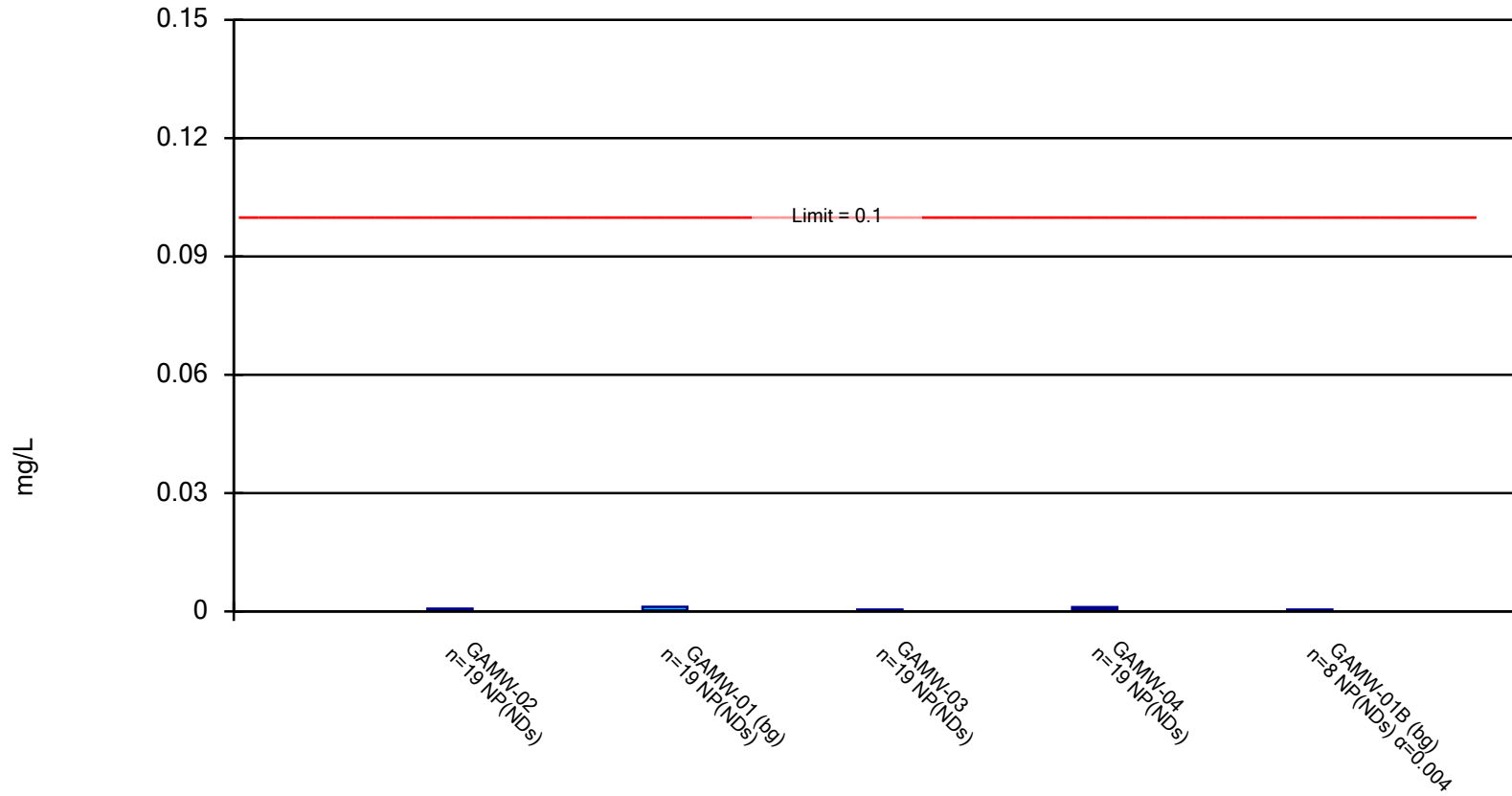


Constituent: Chloride Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Non-Parametric Confidence Interval

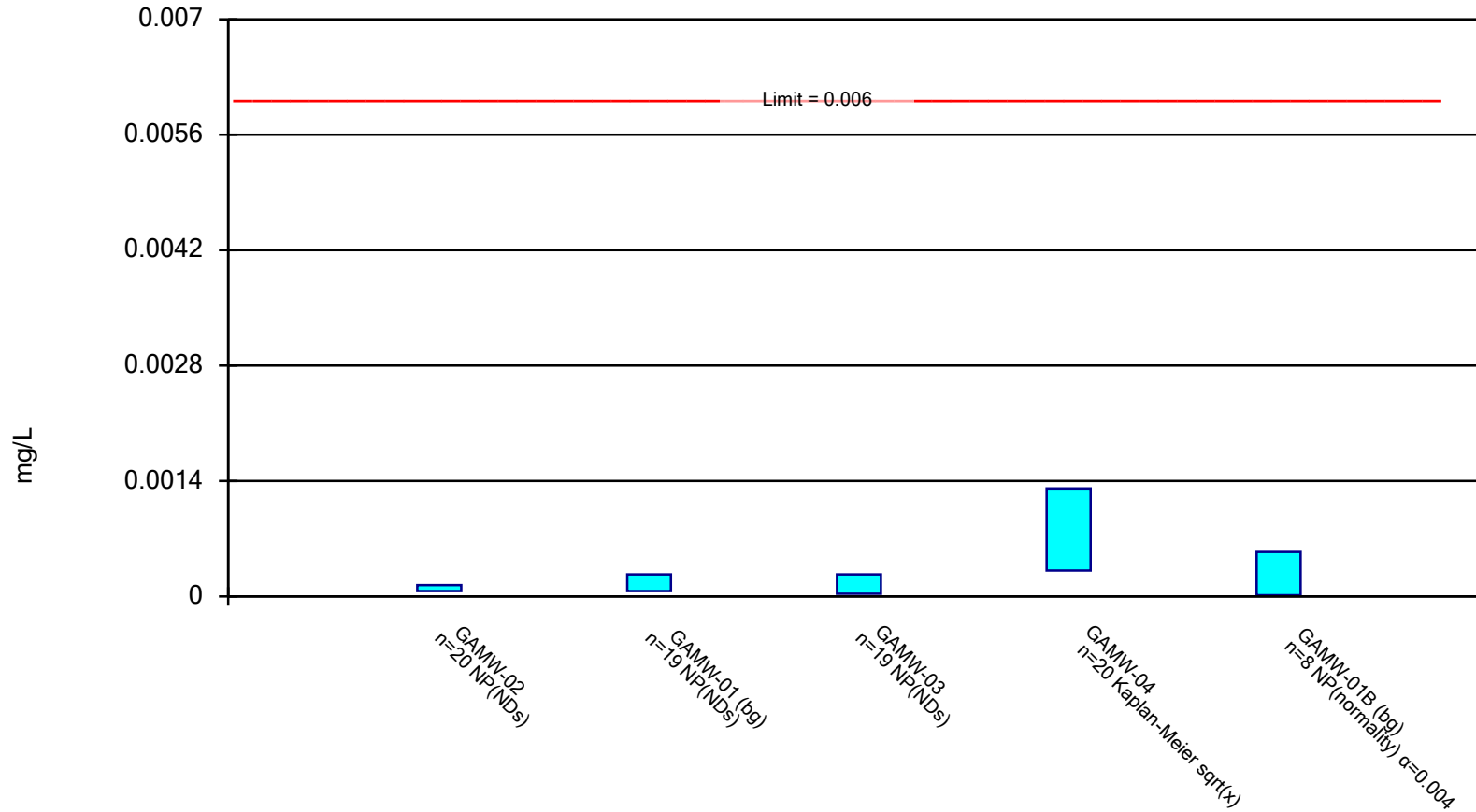
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 1/18/2024 2:34 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

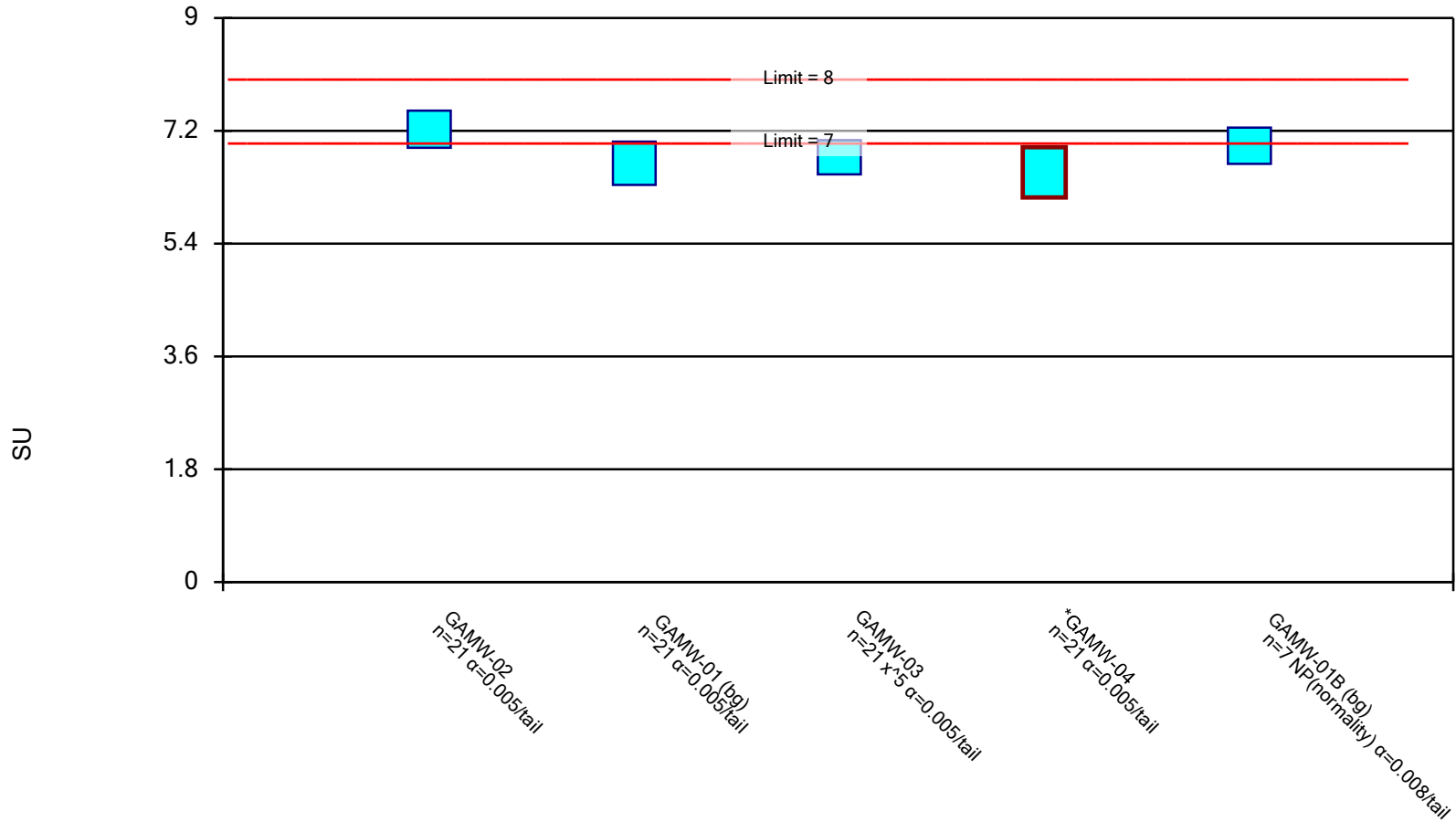


Constituent: Cobalt Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Normality Test: Shapiro Wilk, alpha based on n.

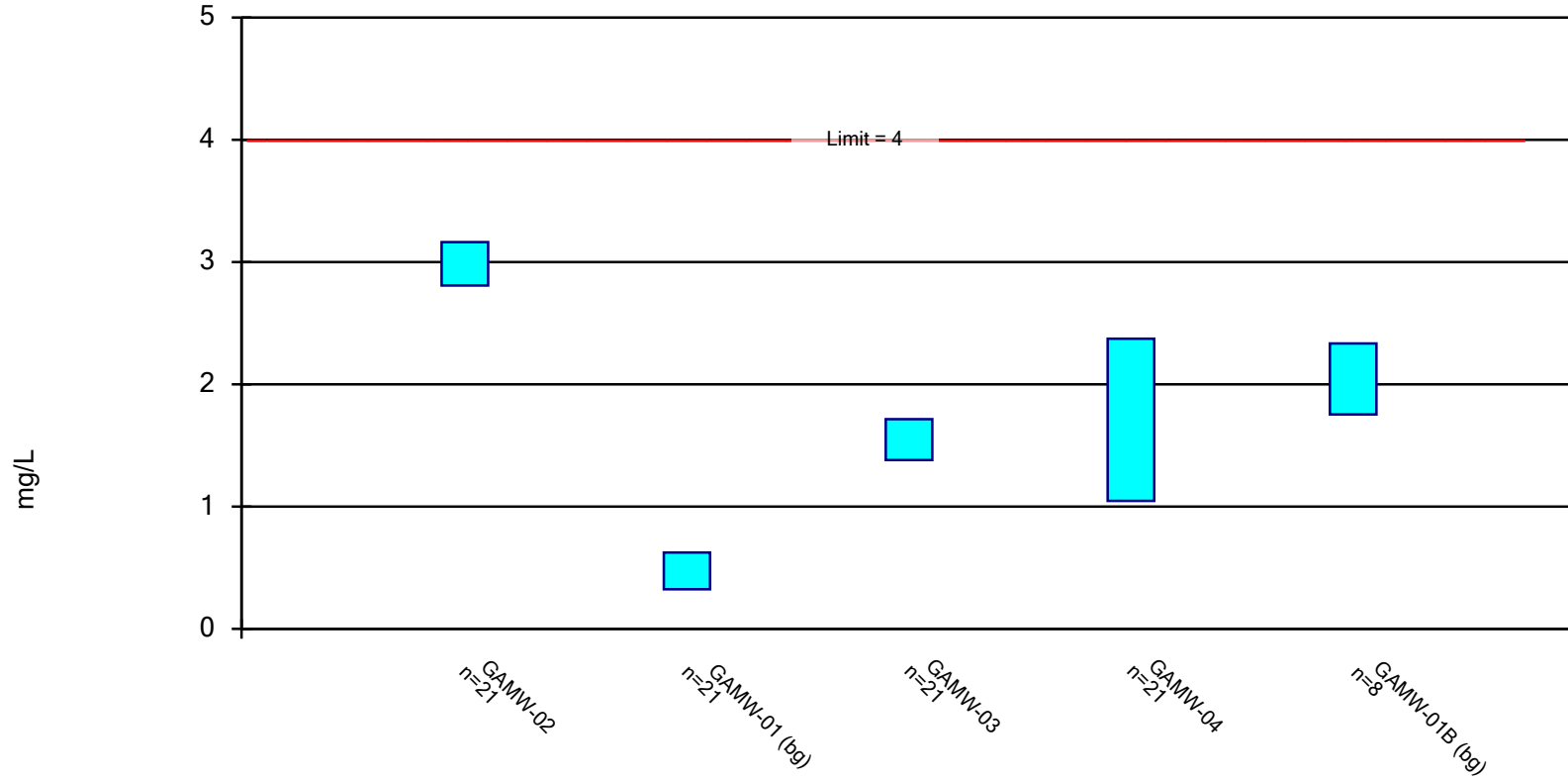


Constituent: field pH Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

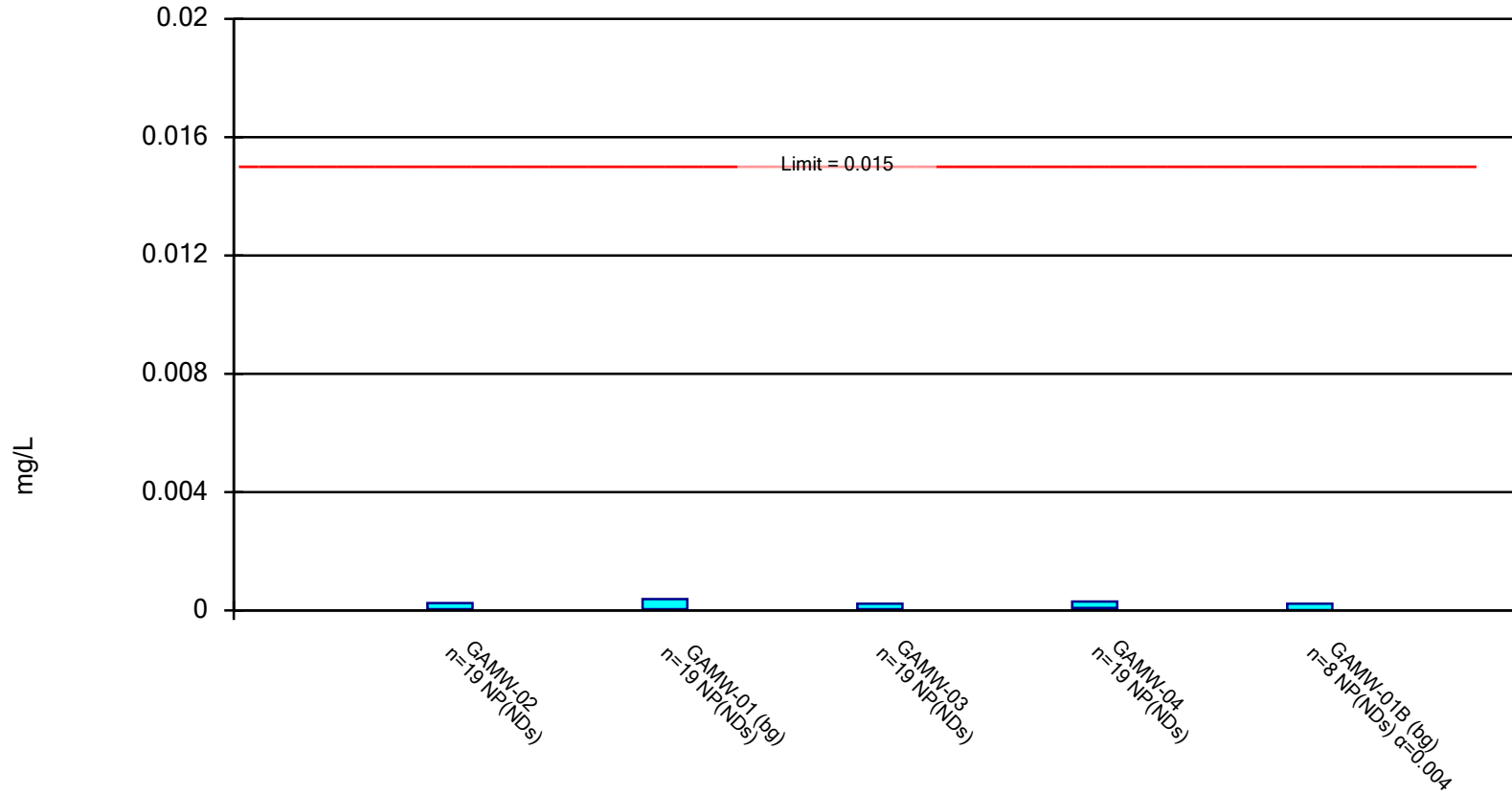


Constituent: Fluoride Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

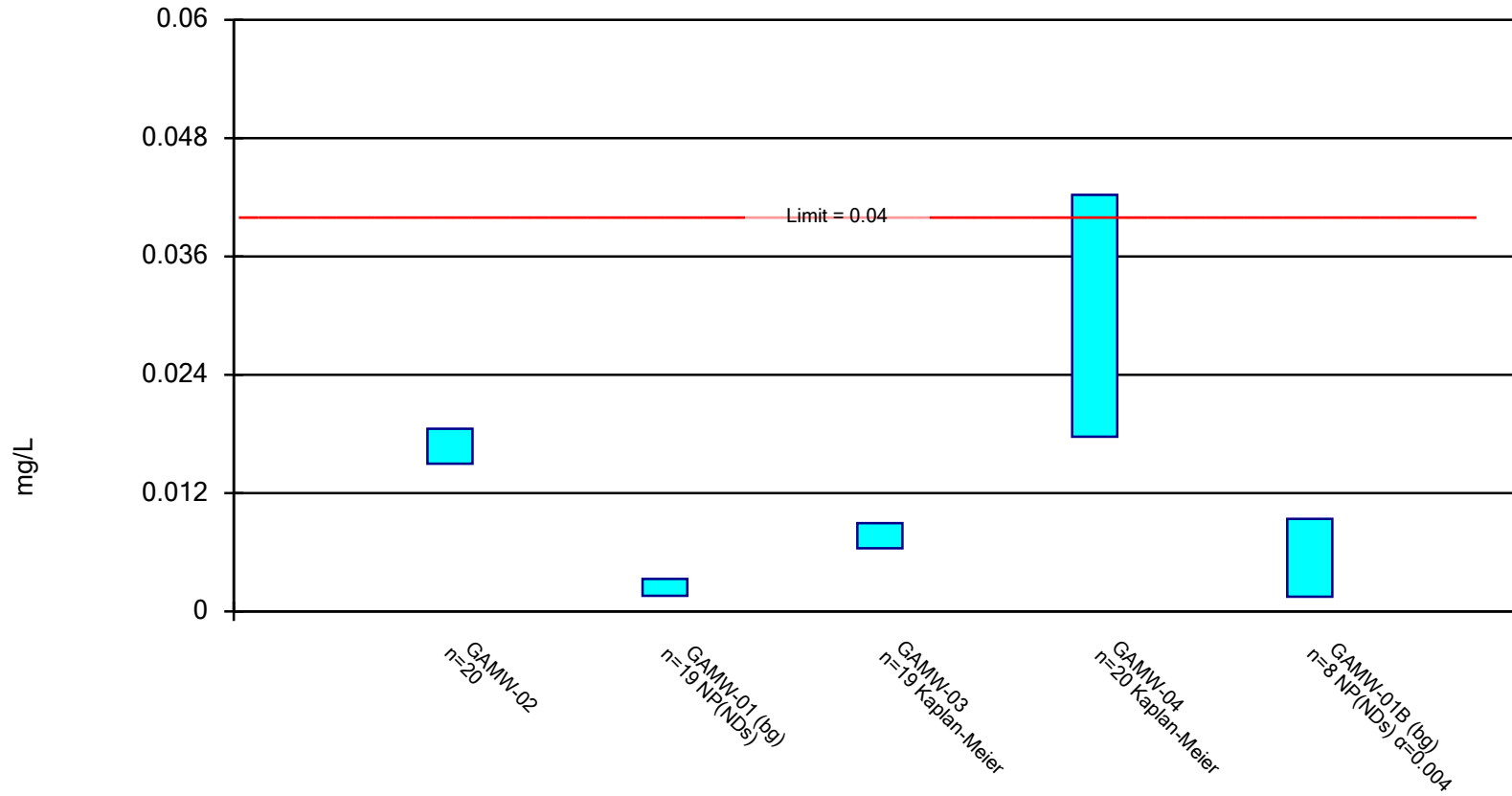


Constituent: Lead Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

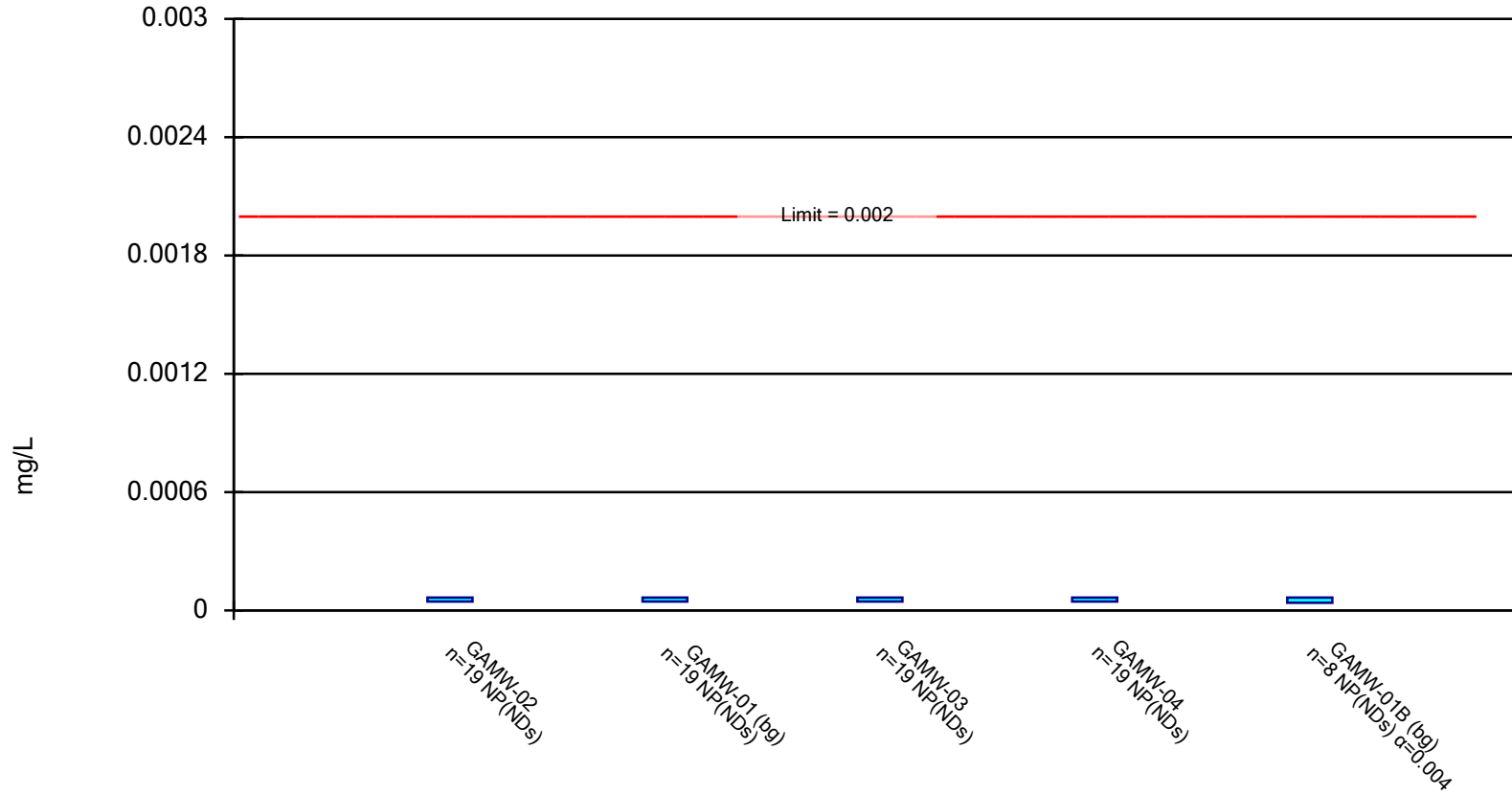


Constituent: Lithium Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

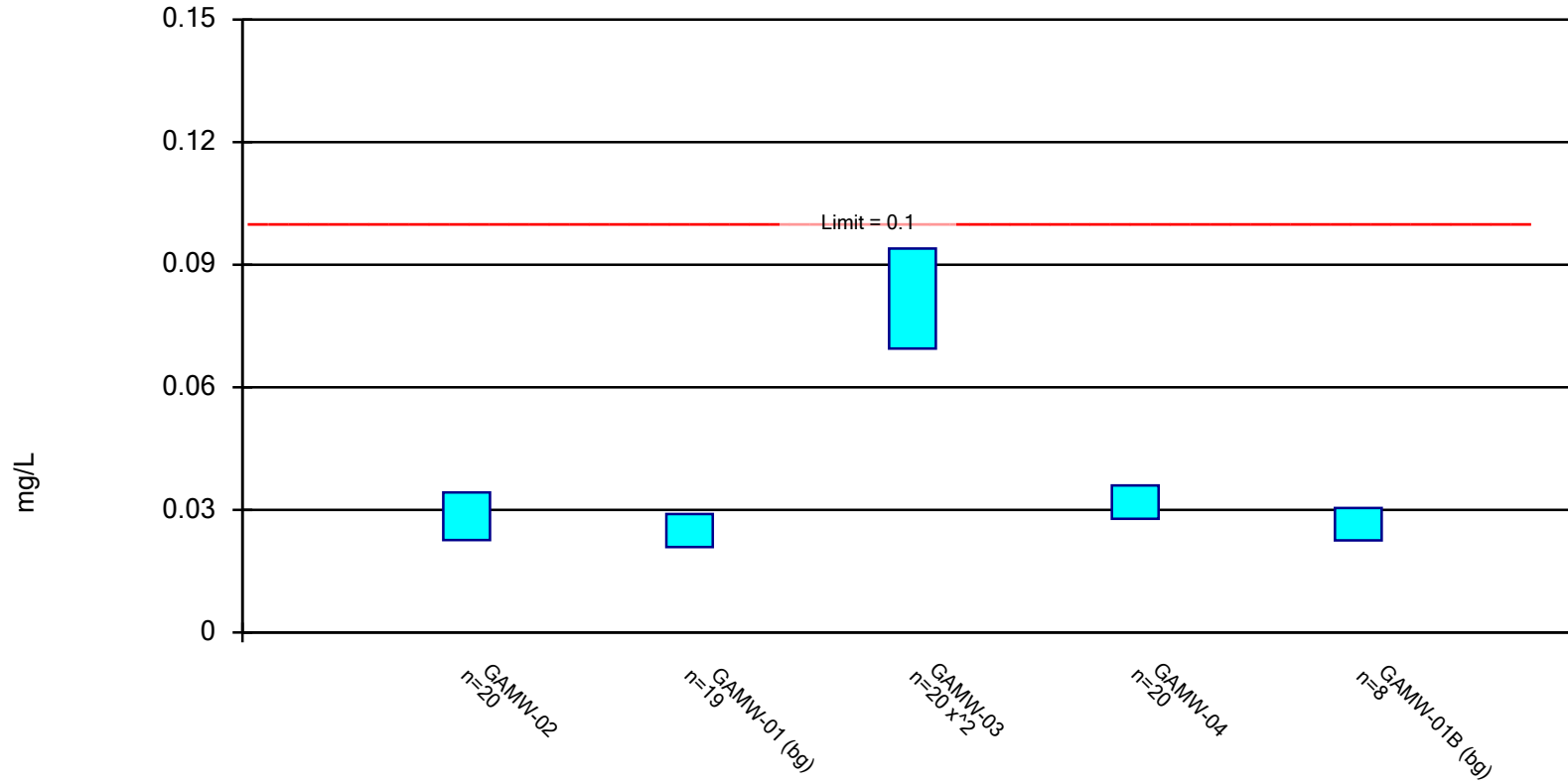


Constituent: Mercury Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

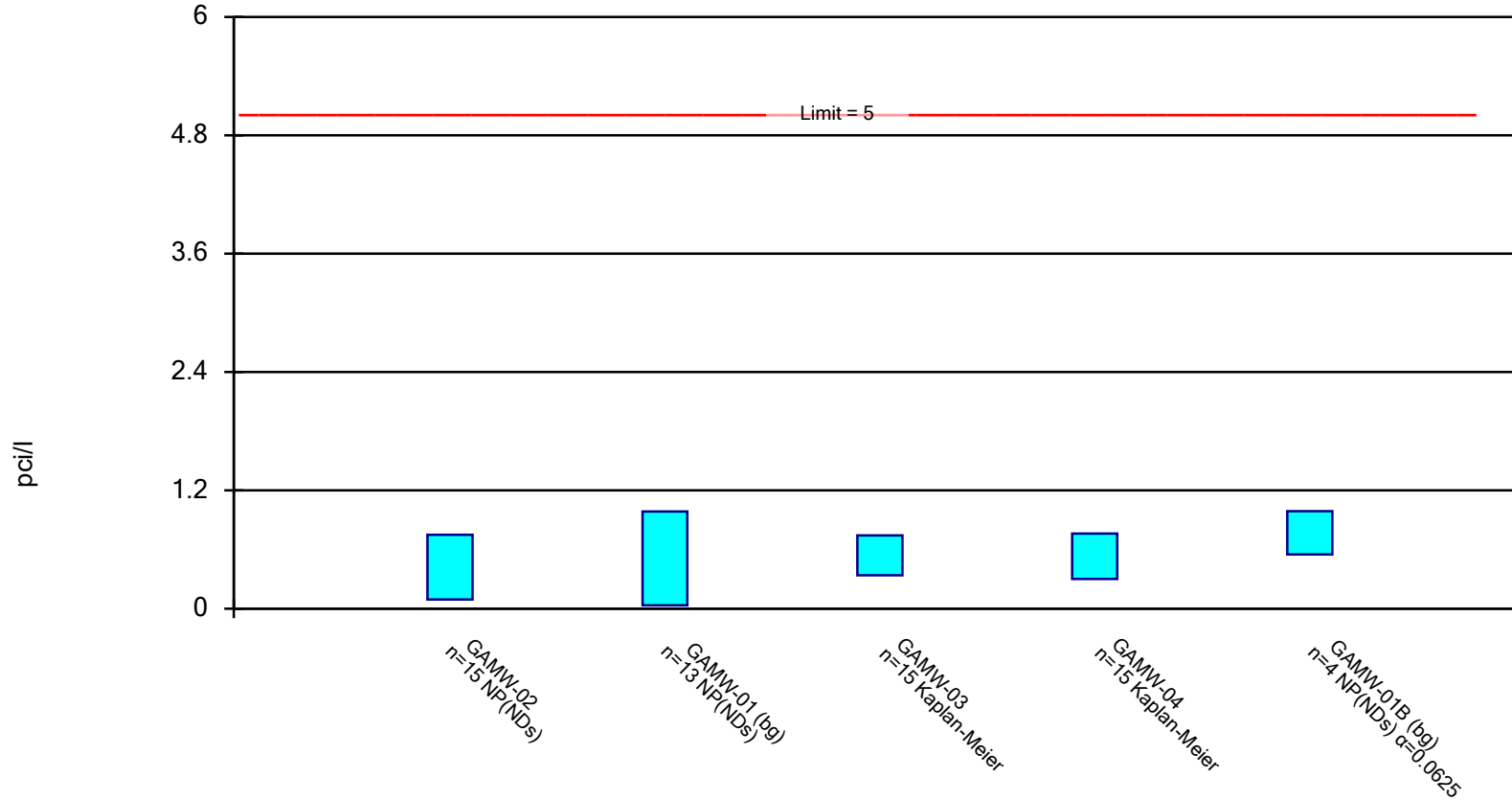


Constituent: Molybdenum Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

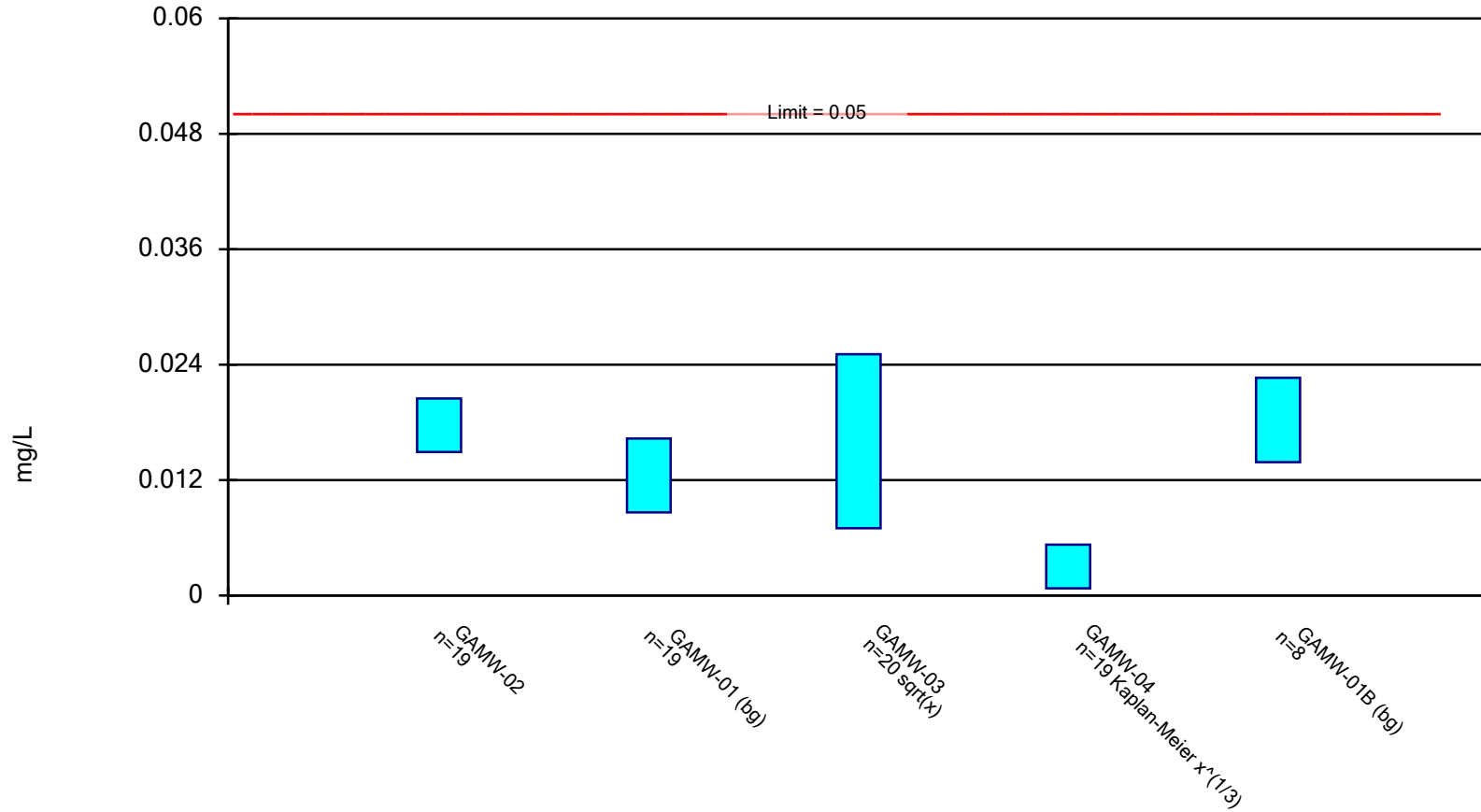


Constituent: Radium 226 + 228 Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

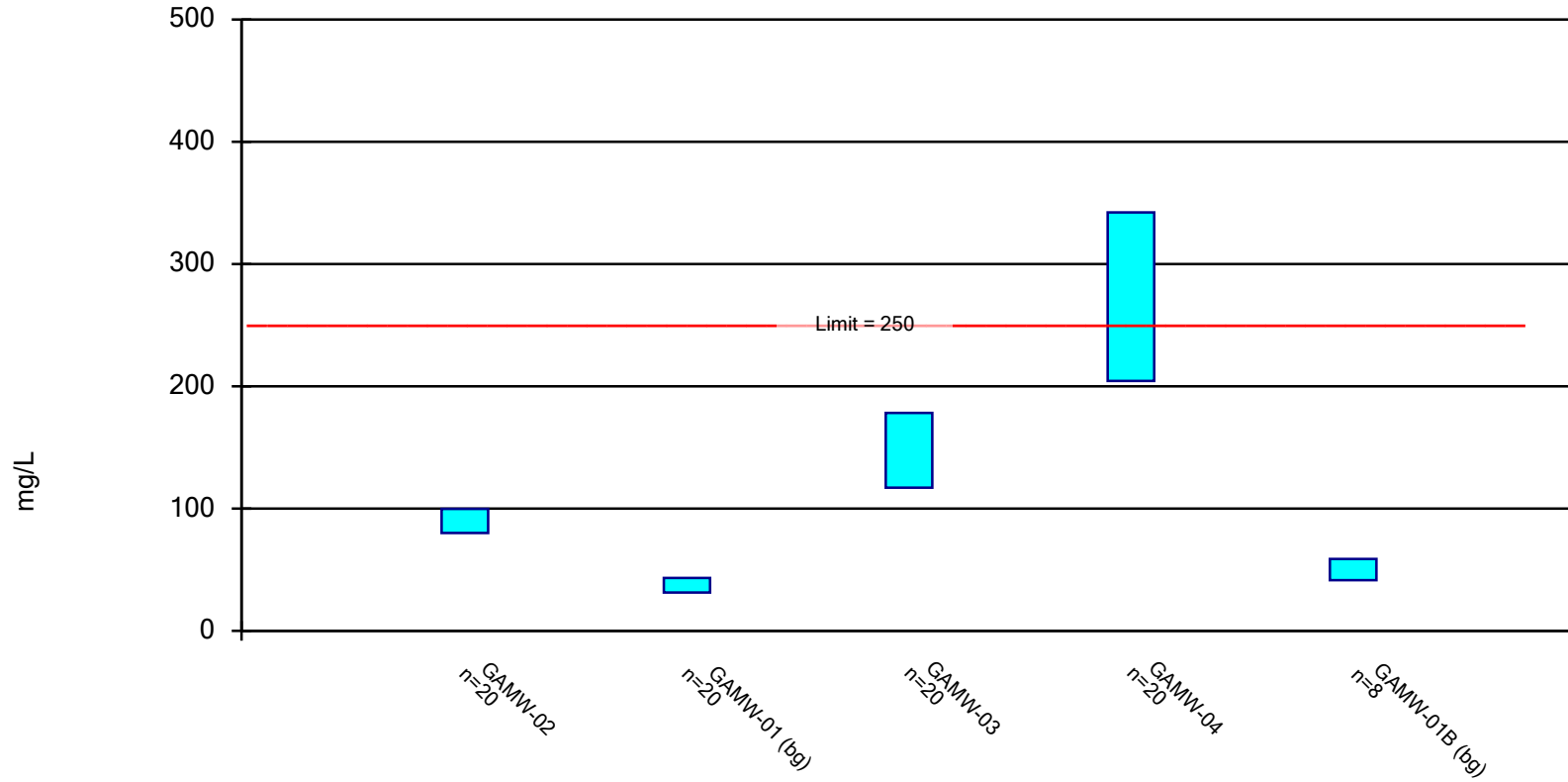
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/18/2024 2:34 PM View: Secondary_1
Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

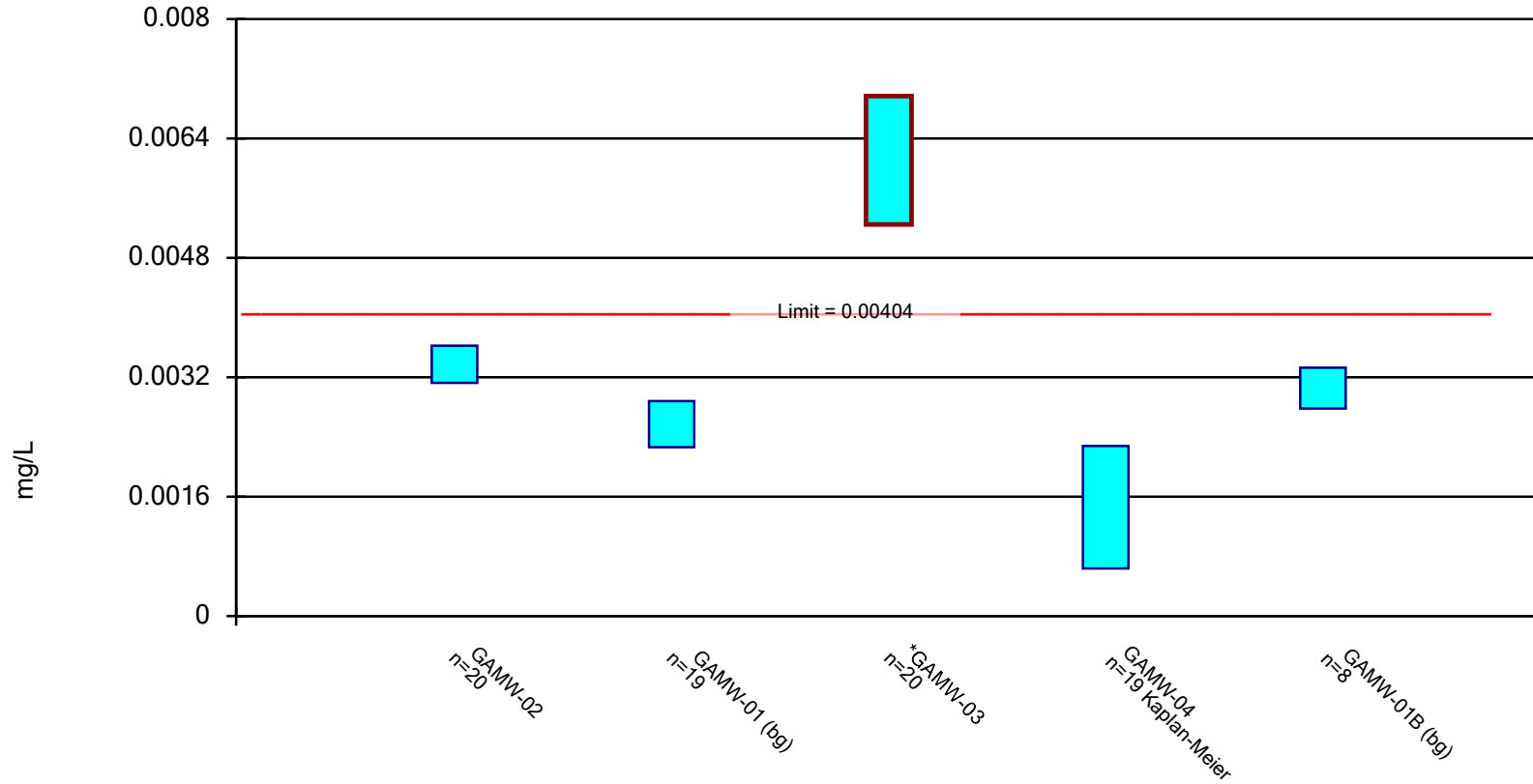


Constituent: Sulfate Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

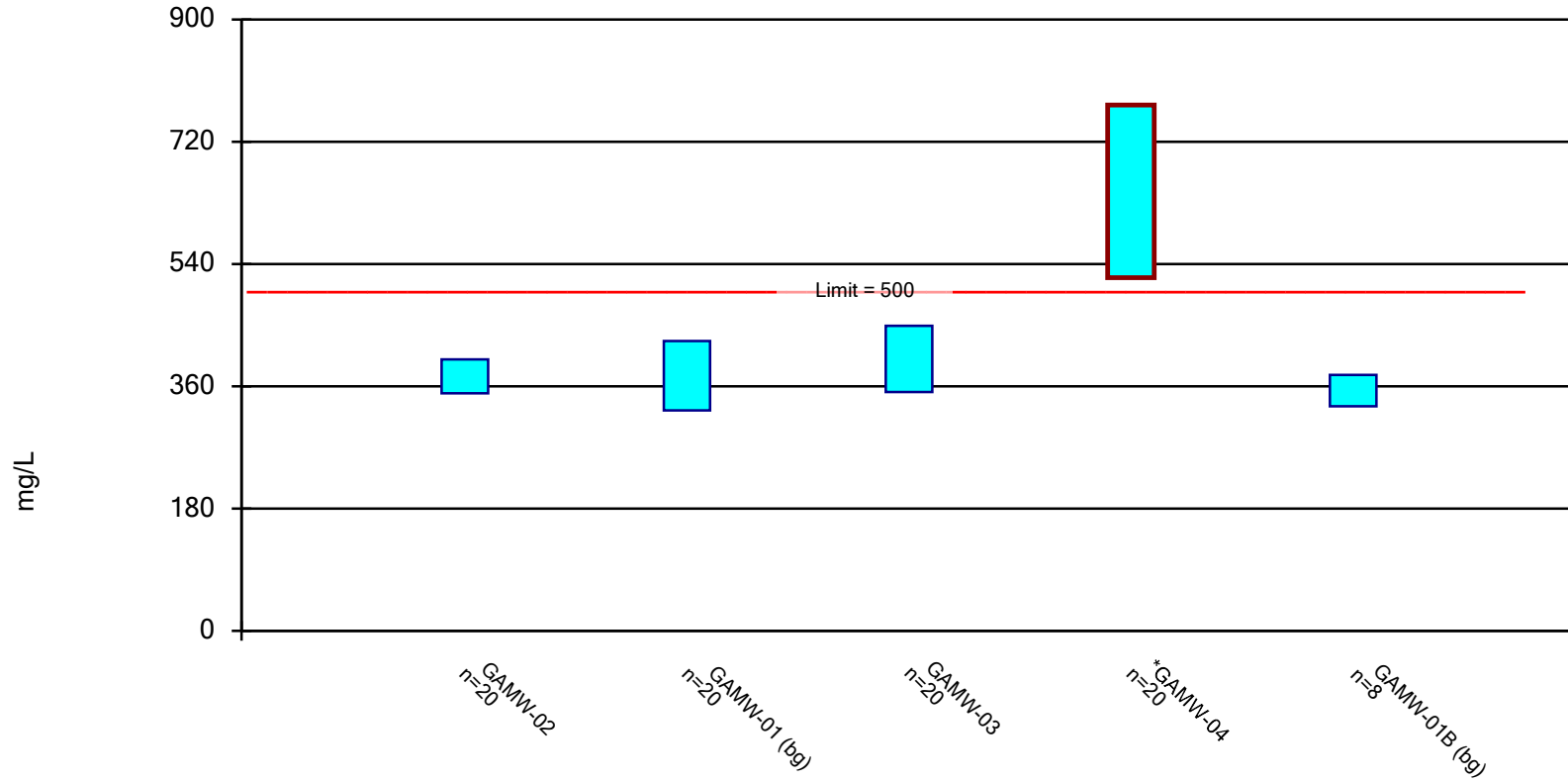


Constituent: Thallium Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Total Dissolved Solids Analysis Run 1/18/2024 2:34 PM View: Secondary_1

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW

Confidence Interval

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW Printed 1/18/2024, 2:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GAMW-02	0.00074	0.00007	0.006	No	20	55	No	0.01	NP (NDs)
Antimony (mg/L)	GAMW-01 (bg)	0.0011	0.00007	0.006	No	19	26.32	No	0.01	NP (normality)
Antimony (mg/L)	GAMW-03	0.00046	0.000135	0.006	No	19	78.95	No	0.01	NP (NDs)
Antimony (mg/L)	GAMW-04	0.0009425	0.00007	0.006	No	19	78.95	No	0.01	NP (NDs)
Antimony (mg/L)	GAMW-01B ...	0.00076	0.00005	0.006	No	8	50	No	0.004	NP (normality)
Arsenic (mg/L)	GAMW-02	0.001948	0.0006634	0.01	No	20	40	No	0.01	Param.
Arsenic (mg/L)	GAMW-01 (bg)	0.001234	0.0003558	0.01	No	19	42.11	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GAMW-03	0.0011	0.00011	0.01	No	19	57.89	No	0.01	NP (NDs)
Arsenic (mg/L)	GAMW-04	0.004349	0.002562	0.01	No	19	5.263	No	0.01	Param.
Arsenic (mg/L)	GAMW-01B ...	0.001267	0.0005396	0.01	No	8	25	x^2	0.01	Param.
Barium (mg/L)	GAMW-02	0.02865	0.0218	2	No	20	0	No	0.01	Param.
Barium (mg/L)	GAMW-01 (bg)	0.0328	0.02517	2	No	19	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GAMW-03	0.02991	0.02114	2	No	20	0	No	0.01	Param.
Barium (mg/L)	GAMW-04	0.06958	0.04147	2	No	20	0	No	0.01	Param.
Barium (mg/L)	GAMW-01B ...	0.023	0.021	2	No	8	0	No	0.004	NP (normality)
Beryllium (mg/L)	GAMW-02	0.0002	0.000016	0.004	No	19	94.74	No	0.01	NP (NDs)
Beryllium (mg/L)	GAMW-01 (bg)	0.0002	0.000051	0.004	No	19	78.95	No	0.01	NP (NDs)
Beryllium (mg/L)	GAMW-03	0.0002	0.000033	0.004	No	19	84.21	No	0.01	NP (NDs)
Beryllium (mg/L)	GAMW-04	0.0003525	0.000086	0.004	No	19	52.63	No	0.01	NP (NDs)
Beryllium (mg/L)	GAMW-01B ...	0.000155	0.00001	0.004	No	8	87.5	No	0.004	NP (NDs)
Boron (mg/L)	GAMW-02	0.3077	0.2328	4	No	20	0	No	0.01	Param.
Boron (mg/L)	GAMW-01 (bg)	0.1839	0.1276	4	No	20	10	No	0.01	Param.
Boron (mg/L)	GAMW-03	0.348	0.2745	4	No	20	0	No	0.01	Param.
Boron (mg/L)	GAMW-04	0.5926	0.4049	4	No	20	0	No	0.01	Param.
Boron (mg/L)	GAMW-01B ...	0.35	0.24	4	No	8	0	No	0.004	NP (normality)
Cadmium (mg/L)	GAMW-02	0.001889	0.001369	0.005	No	20	0	No	0.01	Param.
Cadmium (mg/L)	GAMW-01 (bg)	0.0004541	0.0002975	0.005	No	19	26.32	No	0.01	Param.
Cadmium (mg/L)	GAMW-03	0.001622	0.001188	0.005	No	20	0	No	0.01	Param.
Cadmium (mg/L)	GAMW-04	0.01159	0.004402	0.005	No	19	0	No	0.01	Param.
Cadmium (mg/L)	GAMW-01B ...	0.0006909	0.0004966	0.005	No	8	0	No	0.01	Param.
Calcium (mg/L)	GAMW-02	90.4	79.11	100	No	20	0	No	0.01	Param.
Calcium (mg/L)	GAMW-01 (bg)	88.37	67.56	100	No	20	0	No	0.01	Param.
Calcium (mg/L)	GAMW-03	93.2	80.63	100	No	20	0	No	0.01	Param.
Calcium (mg/L)	GAMW-04	154.3	108.7	100	Yes	20	0	No	0.01	Param.
Calcium (mg/L)	GAMW-01B ...	101.6	85.05	100	No	8	0	x^2	0.01	Param.
Chloride (mg/L)	GAMW-02	3.159	1.673	250	No	20	0	sqrt(x)	0.01	Param.
Chloride (mg/L)	GAMW-01 (bg)	98	3	250	No	20	0	No	0.01	NP (normality)
Chloride (mg/L)	GAMW-03	4.377	2.438	250	No	20	0	No	0.01	Param.
Chloride (mg/L)	GAMW-04	5.155	3.29	250	No	20	0	No	0.01	Param.
Chloride (mg/L)	GAMW-01B ...	17.71	9.201	250	No	8	0	No	0.01	Param.
Chromium (mg/L)	GAMW-02	0.00069	0.00028	0.1	No	19	63.16	No	0.01	NP (NDs)
Chromium (mg/L)	GAMW-01 (bg)	0.0012	0.0003	0.1	No	19	57.89	No	0.01	NP (NDs)
Chromium (mg/L)	GAMW-03	0.00049	0.00013	0.1	No	19	73.68	No	0.01	NP (NDs)
Chromium (mg/L)	GAMW-04	0.0011	0.00044	0.1	No	19	52.63	No	0.01	NP (NDs)
Chromium (mg/L)	GAMW-01B ...	0.00051	0.00005	0.1	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	GAMW-02	0.00014	0.000065	0.006	No	20	75	No	0.01	NP (NDs)
Cobalt (mg/L)	GAMW-01 (bg)	0.00027	0.000065	0.006	No	19	68.42	No	0.01	NP (NDs)
Cobalt (mg/L)	GAMW-03	0.00027	0.0000325	0.006	No	19	52.63	No	0.01	NP (NDs)
Cobalt (mg/L)	GAMW-04	0.001311	0.0003145	0.006	No	20	25	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GAMW-01B ...	0.00054	0.000016	0.006	No	8	50	No	0.004	NP (normality)

Confidence Interval

Bailey GS Client: NIPSCO Data: Bailey_CCR_GW Printed 1/18/2024, 2:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
field pH (SU)	GAMW-02	7.522	6.928	8	No	21	0	No	0.005	Param.
field pH (SU)	GAMW-01 (bg)	7.028	6.334	8	No	21	0	No	0.005	Param.
field pH (SU)	GAMW-03	7.052	6.503	8	No	21	0	x^5	0.005	Param.
field pH (SU)	GAMW-04	6.939	6.135	8	Yes	21	0	No	0.005	Param.
field pH (SU)	GAMW-01B ...	7.25	6.67	8	No	7	0	No	0.008	NP (normality)
Fluoride (mg/L)	GAMW-02	3.161	2.807	4	No	21	0	No	0.01	Param.
Fluoride (mg/L)	GAMW-01 (bg)	0.6244	0.3251	4	No	21	4.762	No	0.01	Param.
Fluoride (mg/L)	GAMW-03	1.715	1.38	4	No	21	0	No	0.01	Param.
Fluoride (mg/L)	GAMW-04	2.372	1.046	4	No	21	0	No	0.01	Param.
Fluoride (mg/L)	GAMW-01B ...	2.335	1.753	4	No	8	0	No	0.01	Param.
Lead (mg/L)	GAMW-02	0.00025	0.000043	0.015	No	19	94.74	No	0.01	NP (NDs)
Lead (mg/L)	GAMW-01 (bg)	0.00038	0.000043	0.015	No	19	89.47	No	0.01	NP (NDs)
Lead (mg/L)	GAMW-03	0.00023	0.000043	0.015	No	19	94.74	No	0.01	NP (NDs)
Lead (mg/L)	GAMW-04	0.0003	0.00008	0.015	No	19	78.95	No	0.01	NP (NDs)
Lead (mg/L)	GAMW-01B ...	0.000225	0.0000145	0.015	No	8	100	No	0.004	NP (NDs)
Lithium (mg/L)	GAMW-02	0.01851	0.01499	0.04	No	20	0	No	0.01	Param.
Lithium (mg/L)	GAMW-01 (bg)	0.0033	0.0016	0.04	No	19	63.16	No	0.01	NP (NDs)
Lithium (mg/L)	GAMW-03	0.008946	0.006417	0.04	No	19	15.79	No	0.01	Param.
Lithium (mg/L)	GAMW-04	0.04224	0.01772	0.04	No	20	20	No	0.01	Param.
Lithium (mg/L)	GAMW-01B ...	0.0094	0.0015	0.04	No	8	75	No	0.004	NP (NDs)
Mercury (mg/L)	GAMW-02	0.000065	0.000045	0.002	No	19	94.74	No	0.01	NP (NDs)
Mercury (mg/L)	GAMW-01 (bg)	0.000065	0.000045	0.002	No	19	100	No	0.01	NP (NDs)
Mercury (mg/L)	GAMW-03	0.000065	0.000045	0.002	No	19	94.74	No	0.01	NP (NDs)
Mercury (mg/L)	GAMW-04	0.000065	0.000045	0.002	No	19	94.74	No	0.01	NP (NDs)
Mercury (mg/L)	GAMW-01B ...	0.000065	0.0000395	0.002	No	8	100	No	0.004	NP (NDs)
Molybdenum (mg/L)	GAMW-02	0.03424	0.02261	0.1	No	20	0	No	0.01	Param.
Molybdenum (mg/L)	GAMW-01 (bg)	0.02897	0.02088	0.1	No	19	0	No	0.01	Param.
Molybdenum (mg/L)	GAMW-03	0.09398	0.06944	0.1	No	20	0	x^2	0.01	Param.
Molybdenum (mg/L)	GAMW-04	0.03599	0.02786	0.1	No	20	0	No	0.01	Param.
Molybdenum (mg/L)	GAMW-01B ...	0.03047	0.02253	0.1	No	8	0	No	0.01	Param.
Radium 226 + 228 (pci/l)	GAMW-02	0.75	0.0925	5	No	15	66.67	No	0.01	NP (NDs)
Radium 226 + 228 (pci/l)	GAMW-01 (bg)	0.985	0.03335	5	No	13	69.23	No	0.01	NP (NDs)
Radium 226 + 228 (pci/l)	GAMW-03	0.7445	0.3399	5	No	15	46.67	No	0.01	Param.
Radium 226 + 228 (pci/l)	GAMW-04	0.7605	0.3026	5	No	15	40	No	0.01	Param.
Radium 226 + 228 (pci/l)	GAMW-01B ...	0.99	0.55	5	No	4	100	No	0.0625	NP (NDs)
Selenium (mg/L)	GAMW-02	0.02049	0.01492	0.05	No	19	0	No	0.01	Param.
Selenium (mg/L)	GAMW-01 (bg)	0.01633	0.008637	0.05	No	19	0	No	0.01	Param.
Selenium (mg/L)	GAMW-03	0.02509	0.007008	0.05	No	20	5	sqrt(x)	0.01	Param.
Selenium (mg/L)	GAMW-04	0.005302	0.0007527	0.05	No	19	26.32	x^(1/3)	0.01	Param.
Selenium (mg/L)	GAMW-01B ...	0.02263	0.01387	0.05	No	8	0	No	0.01	Param.
Sulfate (mg/L)	GAMW-02	99.86	80.06	250	No	20	0	No	0.01	Param.
Sulfate (mg/L)	GAMW-01 (bg)	43.22	31.49	250	No	20	0	No	0.01	Param.
Sulfate (mg/L)	GAMW-03	178.1	117.1	250	No	20	0	No	0.01	Param.
Sulfate (mg/L)	GAMW-04	342.3	204.3	250	No	20	0	No	0.01	Param.
Sulfate (mg/L)	GAMW-01B ...	58.76	41.55	250	No	8	0	No	0.01	Param.
Thallium (mg/L)	GAMW-02	0.003621	0.003124	0.00404	No	20	0	No	0.01	Param.
Thallium (mg/L)	GAMW-01 (bg)	0.002879	0.002263	0.00404	No	19	0	No	0.01	Param.
Thallium (mg/L)	GAMW-03	0.006965	0.005245	0.00404	Yes	20	0	No	0.01	Param.
Thallium (mg/L)	GAMW-04	0.00228	0.0006399	0.00404	No	19	15.79	No	0.01	Param.
Thallium (mg/L)	GAMW-01B ...	0.00333	0.002782	0.00404	No	8	0	No	0.01	Param.

Confidence Interval

Bailly GS Client: NIPSCO Data: Bailly_CCR_GW Printed 1/18/2024, 2:35 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/L)	GAMW-02	399.5	349.5	500	No	20	0	No	0.01	Param.
Total Dissolved Solids (mg/L)	GAMW-01 (bg)	426.5	324.4	500	No	20	0	No	0.01	Param.
Total Dissolved Solids (mg/L)	GAMW-03	448.9	351.7	500	No	20	0	No	0.01	Param.
Total Dissolved Solids (mg/L)	GAMW-04	774.1	519.8	500	Yes	20	0	No	0.01	Param.
Total Dissolved Solids (mg/L)	GAMW-01B ...	376.6	330.7	500	No	8	0	No	0.01	Param.

